

International Nuclear Information System  
(INIS)

JOINT THESAURUS

ETDE/INIS Joint Reference Series No. 1 (Rev. 2.1)

Nuclear reactors and reactor safety • Energy efficiency • Nuclear instrumentation  
Power transmission and distribution • Materials and physical sciences research



Renewable energy technologies • Radiation protection • Energy storage, conversion, and consumption  
Radioactive waste management • Energy policy • Radiation effects on living organisms • Fossil fuels  
Vienna, April 2008



**IAEA**  
International Atomic Energy Agency

Energy Technology Data Exchange (ETDE) 

**ETDE/INIS Joint Reference Series No. 1 (Rev. 2.1)**

# **JOINT THESAURUS**

INTERNATIONAL ATOMIC ENERGY AGENCY

VIENNA, APRIL 2008

## NOTE

**This edition replaces the previous version (Rev. 2) of this publication.**

JOINT THESAURUS, IAEA, VIENNA, 2008  
IAEA-ETDE/INIS-1 (Rev. 2.1)  
ISBN 92-0-102207-7  
ISSN 1684-095X

© IAEA, 2008

Published by the IAEA in Austria

April 2008



## FOREWORD

This is revision 2.1 of the ETDE/INIS Joint Thesaurus, including all updates up to April 2008. It contains 21 795 valid descriptors and 8 998 forbidden terms.

The Joint Thesaurus contains the controlled terminology for indexing all information within the subject scopes of the International Nuclear Information System (INIS) and the Energy Technology Data Exchange (ETDE). The terminology is intended for use in subject descriptions for input or retrieval of information in these systems.

The basic terminology in this thesaurus goes back to the 1969 edition of the EURATOM Thesaurus. The structure subsequently given to that terminology was the result of a systematic study performed by INIS subject specialists. Further expansion of the thesaurus terminology was done by ETDE to incorporate information on all forms of energy.

The ETDE/INIS Joint Thesaurus is the result of continued editing, carried out in parallel to the processing of the INIS and ETDE databases. Any suggestions for improvements to the present document are welcome. Comments should be sent to either the INIS or the ETDE Thesaurus Specialist at the following contact addresses:

Thesaurus Specialist  
INIS and Nuclear Knowledge Management Section  
Department of Nuclear Energy  
International Atomic Energy Agency  
P.O. Box 100  
A-1400 Vienna, Austria  
Fax: +43 1 2600 29882  
Email: [inis@iaea.org](mailto:inis@iaea.org)

ETDE Thesaurus Specialist  
ETDE Operating Agent  
DOE/Office of Scientific and Technical Information  
P.O. Box 1000  
Oak Ridge, TN 37831  
USA  
Email: [info@etde.org](mailto:info@etde.org)

## AVAILABILITY TO ETDE USERS

### *About ETDE*

The Energy Technology Data Exchange (ETDE) is a consortium of countries that share energy science and technology information through ETDE's Energy Database and ETDE World Energy Base (ETDEWEB). ETDE was established as an Implementing Agreement in 1987 under the auspices of the International Energy Agency (IEA); it collaborates with other IEA entities as appropriate. A current list of ETDE member countries may be found at <http://www.etde.org/organization.html>. ETDEWEB is accessible to persons in ETDE member countries and approved developing countries at <http://www.etde.org/etdeweb/>.

ETDE's focus is to cover subjects of interest to the IEA and ETDE's international audience of database users. The information covered includes such important topics as environmental aspects of energy production, consumption, and use; energy efficiency and conservation; energy policy; renewable energy sources; end-use technology; fusion, fossil, and nuclear energy; and advanced energy systems. Coverage also includes the basic sciences that support energy R&D, such as aspects of chemistry, engineering, environmental sciences (with emphasis on global climate change), physics, biomedical sciences, materials science, computer science, mathematics, and instrumentation related to energy technology.

Printed copies of the Joint Thesaurus are available only from the INIS sources listed on the following page. ETDE will no longer provide printed copies, but users may contact the ETDE Operating Agent if assistance or advice is needed.

ETDE Operating Agent  
DOE/Office of Scientific and Technical Information  
P.O. Box 1000  
Oak Ridge, Tennessee 37831  
USA  
Telefax: 1 865 576 2865  
Email: [info@etde.org](mailto:info@etde.org)

An electronic version of the thesaurus in PDF format is available for downloading from the ETDE web site at:

<http://www.etde.org/edb/reference.html>

### *About the IEA*

When the International Energy Agency (IEA) was founded in 1974, the main objective of its member countries (26 as of 2006) was to reduce dependence on imported oil through the development of alternative sources while improving energy efficiency. More recently, concerns such as greenhouse gas emissions and globalization have underlined the need for international co-operation. For more than 30 years, technology collaboration has been a fundamental building block among IEA Member and non-member countries in facilitating progress of new or improved energy technologies. There are currently 40 Implementing Agreements in the areas of fossil fuels, renewable energies and hydrogen, end-use (buildings, industry and transport), fusion and cross-sectional activities. For more information see <http://www.iea.org>.

## AVAILABILITY TO INIS USERS

### *About INIS*

INIS, the International Nuclear Information System, is the world's leading information system on the peaceful uses of nuclear energy. INIS is operated by the International Atomic Energy Agency (IAEA) in collaboration with its Member States and cooperating international organizations. INIS was established in 1970, and since then has been successfully fulfilling its mission to create a reservoir of nuclear information for current and future generations; provide quality nuclear information services to Member States, and assist with the development of a culture of information and knowledge sharing. INIS processes most of the world's scientific and technical literature on a wide range of subjects from nuclear engineering, safeguards and non-proliferation to applications in agriculture and health. The subject scope was developed to respond to the information needs of the international community in the areas of the IAEA's interests and activities covering the peaceful uses of nuclear science and technology. For more information see <http://www.iaea.org/inisnkm>.

INIS Member may request reasonable quantities of the Joint Thesaurus from:

INIS and Nuclear Knowledge Management Section  
International Atomic Energy Agency  
P.O. Box 100  
Wagramer Strasse 5  
A-1400 Vienna  
Austria  
Fax: +43 1 2600 29882  
E-mail: [INIS@iaea.org](mailto:INIS@iaea.org)  
<http://www.iaea.org/inisnkm>

Other organizations may order printed copies of the *INIS Reference Series* and the *ETDE/INIS Joint Reference Series* from:

Sales and Promotion Unit  
Publishing Section  
International Atomic Energy Agency  
P.O. Box 100, Wagramer Strasse 5  
A-1400 Vienna, Austria  
Fax: +43 1 2600 29302  
E-mail: [sales.publications@iaea.org](mailto:sales.publications@iaea.org)  
<http://www.iaea.org/books>

An electronic version of the Joint Thesaurus in PDF format can be downloaded from the IAEA Publications web site at:

<http://www.iaea.org/Publications>

### *About the IAEA*

The International Atomic Energy Agency (IAEA) is the world's intergovernmental forum for cooperation in the peaceful uses of nuclear energy. It was founded in 1957 in accordance with a decision of the General Assembly of the United Nations. Its Statute states that "The Agency shall seek to accelerate and enlarge the contribution of atomic energy to peace, health and prosperity throughout the world. It shall ensure, so far as it is able, that assistance provided by it or at its request or under its supervision or control is not used in such a way as to further any military purpose."

For more information see <http://www.iaea.org>





## PREFACE

“A thesaurus is a terminological control device used in translating from the natural language of documents, indexers or users into a more constrained ‘system language’ (document language, information language)”. It is also “a controlled and dynamic vocabulary of semantically and generically related terms which covers a specific domain of knowledge”. The Joint Thesaurus fits this definition adopted by UNESCO.<sup>1</sup>

The domain of knowledge covered by the Joint Thesaurus includes physics (in particular, plasma physics, atomic and molecular physics, and especially nuclear and high-energy physics), chemistry, materials science, earth sciences, radiation biology, radioisotope effects and kinetics, applied life sciences, radiology and nuclear medicine, isotope and radiation source technology, radiation protection, radiation applications, engineering, instrumentation, fossil fuels, synthetic fuels, renewable energy sources, advanced energy systems, fission and fusion reactor technology, safeguards and inspection, waste management, environmental aspects of the production and consumption of energy from nuclear and non-nuclear sources, energy efficiency and energy conservation, economics and sociology of energy production and use, energy policy, and nuclear law.

The terms in the Joint Thesaurus are listed alphabetically. For each alphabetical entry, a “word block”, containing the terms associated with this particular entry, is displayed. In the word block, terms that have a hierarchical relationship to the entry are identified by the symbols **BT** for *Broader Term*, and **NT** for *Narrower Term*; a term with an affinitive relationship is identified by **RT**, for *Related Term*; terms with a preferential relationship are identified by **USE** or **SEE**, and **UF** for *Used For*, and **SF** for *Seen For*. In case of multiple **USE** relationships for a forbidden term, **all** listed descriptors should be used to index or search a given concept. In case of multiple **SEE** relationships, **one or more** of the listed descriptors should be considered for indexing or searching this concept.

A non-descriptor may refer to a descriptor that has *Narrower Terms*. Users of the Joint Thesaurus should always refer to the word block of that descriptor, to ensure that the most specific term is chosen. For all terms, only one level of *Broader Terms* is shown. If terms have additional levels of broader terms, e.g. **BT2**, **BT3**, etc., this is indicated by an asterisk, e.g. **\*BT1**. Up to ten levels of *Narrower Terms* are shown for all terms. If terms have additional levels of narrower terms, such as **NT11**, **NT12**, etc., this is indicated by an asterisk, e.g. **\*NT10**.

The dates printed after each descriptor indicate when the term was introduced in either the ETDE or the INIS database and hence its earliest usage in the respective data base. If only one date is given, the descriptor was introduced in both databases at the same time. If the descriptor is **not** followed by a date, it already existed in the thesaurus **before 30 June 1975**. In April 2000, a major addition of terminology to the INIS Thesaurus was made, by including new terms from the ETDE Thesaurus. These terms can be identified by the INIS date (Apr 2000). When searching for entries in the alphabetic listing, users should take note of the following sort order:

- comma “,”
- dash “/”
- space “ ” and hyphen “-”
- Arabic numerals 0-9
- Roman alphabet A-Z

Numbers, which include single and multiple digits, are sorted by the initial digit first, e.g. the isotopes BORON 10 and BORON 19 appear before BORON 7 and BORON 9. In the same way, RUTHENIUM 100 appears before RUTHENIUM 88. All terms, in which the first character is a number, appear before the letter A.

Additions and changes to the vocabulary of controlled terminology in the current Thesaurus revision are summarized in cumulative monthly updates. They are available from the INIS Members Area on the INIS and NKM website and the ETDE website. These updates include the first-level broader terms, related terms, scope notes for the new descriptors, and the descriptor(s) to be used for each new forbidden term. Since the updates are cumulative, new changes in any update are marked with an arrow for easy recognition. In addition, the final update to the previous Thesaurus revision is available from the INIS Members Area web page and the ETDE web site. This update contains all changes to the previous revision, as implemented in the current version of the Joint Thesaurus.

<sup>1</sup>SC/WS/555: Guidelines for the Establishment and Development of Monolingual Thesauri: United Nations Educational, Scientific and Cultural Organization, Paris, September 1973.

## DICTIONARY

**1,1-diethoxyethane**

USE acetal

**1,2,3-propanetriol**

USE glycerol

**1,2,3-trihydroxybenzene**

USE pyrogallol

**1,2,4,5-tetramethylbenzene**

USE durene

**1,2-dihydroxyanthraquinone**

USE alizarin

**1,2-dihydroxybenzene**

USE pyrocatechol

**1,2-dimethoxyethane**

USE dme

**1,2-diphenylethane**

USE bibenzyl

**1,2-diphenylethylene**

USE stilbene

**1,2-ethanedial**

USE glyoxal

**1,2-ethanediol**

USE glycols

**1,2-ethanedithiol**

USE dithiols

**1,3,5-triamino-2,4,6-trinitrobenzene**

INIS: 2000-04-12; ETDE: 1975-08-19

USE tatb

**1,3,5-trimethylbenzene**

USE mesitylene

**1,3,7-trimethylxanthine**

USE caffeine

**1,3-diazines**

USE pyrimidines

**1,3-dihydroxybenzene**

USE resorcinol

**1,3-dimethylxanthine**

USE theophylline

**1,4-diaminobutane**

USE putrescine

**1,4-diazines**

USE pyrazines

**1,4-dihydroxyanthraquinone**

USE quinizarin

**1,4-dioxane**

USE dioxane

**1,5-diaminopentane**

USE cadaverine

**1/v law**

INIS: 1975-09-26; ETDE: 1975-10-28

USE reciprocal v law

**1-dimensional calculations**

USE one-dimensional calculations

**1-NITROSO-2-NAPHTHOL**

UF alpha-nitroso-beta-naphthol

UF anbn

\*BT1 naphthols

\*BT1 nitroso compounds

BT1 reagents

**1-propanol**

USE propanols

**2,2-dimethylpropane**

USE 2-2-dimethylpropane

**2,2-dithiobisethylamine**

INIS: 1984-05-24; ETDE: 2002-06-06

USE cystamine

**2,3,4,7-dibenzoanthracene**

INIS: 2000-04-12; ETDE: 1985-09-23

USE pentacene

**2,4-pentanedione**

USE acetylacetone

**2,5-diaminovaleric acid**

USE ornithine

**2-2-DIMETHYLPROPANE**

UF 2,2-dimethylpropane

UF dimethylpropane (2,2-)

UF neopentane

\*BT1 alkanes

**2-3-PENTANEDIONE**

UF acetyl propionyl

UF methyl ethyl diketone

UF pentanedione (2,3)

\*BT1 ketones

**2-chloro-1,3-butadiene**

USE neoprene

**2-dimensional calculations**

USE two-dimensional calculations

**2-furaldehyde**

USE furfural

**2-mercaptopropionylglycine**

INIS: 1981-12-23; ETDE: 1982-02-09

USE mpg

**2-methylbutadiene**

USE isoprene

**2-METHYLBUTANE**

INIS: 1983-09-06; ETDE: 1979-09-26

UF isopentane

UF methylbutane (2-)

\*BT1 alkanes

**2-METHYLPROPANE**

UF isobutane

UF methylpropane (2-)

\*BT1 alkanes

**2-METHYLPROPANOL**

UF isobutyl alcohol

UF methylpropanol (2-)

\*BT1 alcohols

**2-METHYLPROPENE**

UF isobutylene

UF methylpropene (2-)

\*BT1 alkenes

**2-methylquinoline**

USE quinaldine

**2-nitroimidazole**

INIS: 2000-04-12; ETDE: 1981-01-27

USE misonidazole

**2-propanol**

USE propanols

**2-pyridinecarboxylic acid**

USE picolinic acid

**2-pyrrolidinecarboxylic acid**

USE proline

**2X DEVICES**

\*BT1 magnetic mirrors

**3,4-dihydroxyphenylalanine**

USE dopa

**3,7-dimethylxanthine**

USE theobromine

**3-dimensional calculations**

USE three-dimensional calculations

**3-METHYLCHOLANTHRENE**

INIS: 1982-02-09; ETDE: 1979-07-18

\*BT1 condensed aromatics

\*BT1 polycyclic aromatic hydrocarbons

RT combustion products

**3j-symbols**

USE clebsch-gordan coefficients

**4-dimensional calculations**

USE four-dimensional calculations

**5-amino-2,3-dihydro-1,4-phthalazine-dione**

INIS: 2000-04-12; ETDE: 1982-01-21

USE luminol

**5-methyl uracil**

ETDE: 2002-06-06

USE thymine

**5-methyluracil**

2000-04-12

USE thymine

**5U PELLETRON ACCELERATOR**

INIS: 1980-02-26; ETDE: 1980-03-29

\*BT1 pelletron accelerators

**6-aminopurine**

USE adenines

**6-carboxyuracil**

USE orotic acid

**6-furfurylaminopurine**

USE kinetin

**6j-symbols**

USE racah coefficients

**710 reactor**

2000-04-12

(Prior to May 1993, this was a valid ETDE descriptor.)

SEE enriched uranium reactors

SEE fast reactors

SEE gas cooled reactors

SEE mobile reactors

SEE propulsion reactors

**8-hydroxyquinoline**

1980-07-24

USE oxine

**8-hydroxyxanthine**

USE uric acid

**8-quinolinol**

INIS: 2000-04-12; ETDE: 1985-08-22

USE oxine

**9j-symbols**

USE wigner coefficients

**a-1 reactor (bohunice)**

USE bohunice a-1 reactor

**a-1 reactor (calder hall)**

USE calder hall a-1 reactor

**a-15 compounds**

INIS: 2000-04-12; ETDE: 1979-05-02

USE beta-w lattices

**a-2 reactor (bohunice)**

USE bohunice a-2 reactor

**a-2 reactor (calder hall)**

USE calder hall a-2 reactor

**a 285 steel**

INIS: 2000-04-12; ETDE: 1978-12-20

USE steel-astm-a285

**A-BOMB SURVIVORS**

\*BT1 human populations  
 RT delayed radiation effects  
 RT epidemiology  
 RT hiroshima  
 RT little boy  
 RT nagasaki

**A CENTERS**

1982-08-27

\*BT1 color centers

**A CODES**

BT1 computer codes

**a resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**A0-980 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-25

(Prior to December 1987 this concept was indexed by DELTA-966 RESONANCES.)

UF delta-966 resonances

\*BT1 scalar mesons

**a1-1070 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE a1-1260 mesons

**A1-1260 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by A1-1070 RESONANCES; from then until July 1995 it was indexed by A1-1270 MESONS.)

UF a1-1070 resonances

UF a1-1270 mesons

\*BT1 axial vector mesons

**a1-1270 mesons**

INIS: 1995-08-07; ETDE: 1988-01-29

(From December 1987 until July 1995 this was a valid term.)

USE a1-1260 mesons

**a2-1310 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE a2-1320 mesons

**A2-1320 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-29

(Prior to December 1987 this concept was indexed by A2-1310 RESONANCES.)

UF a2-1310 resonances

\*BT1 tensor mesons

**a2h-1320 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**a2l-1280 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**a3 resonances**

2000-04-12

USE pi2-1670 mesons

**a4-1960 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE a4-2040 mesons

**A4-2040 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by A4-1960 RESONANCES.)

UF a4-1960 resonances

\*BT1 tensor mesons

**A6-2450 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 tensor mesons

**AABO CYCLOTRON**

UF turku cyclotron

\*BT1 isochronous cyclotrons

**aaec**

INIS: 1996-01-30; ETDE: 1978-04-28

Australian Atomic Energy Commission. The AAEC was abolished on 27 April 1987 and replaced by ANSTO.

(Until January 1996 this was a valid descriptor.)

USE ansto

**aaf**

INIS: 2000-04-12; ETDE: 1985-09-23

USE acetylaminofluorenes

**AAPS**

INIS: 2000-04-12; ETDE: 1979-05-02

UF advanced automotive propulsion systems

RT automotive industry

RT electric-powered vehicles

RT gas turbine engines

RT internal combustion engines

RT stirling engines

**AARR REACTOR**

2000-04-12

ANL, Argonne, Illinois, USA.

UF argonne tank research and test reactor-aarr

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**ABACC**

1999-06-22

Agencia Brasileiro-Argentina de Contabilidade e Controle de Materiais Nucleares.

UF agencia brasil-argentina contabil controle mater nuclear

UF argentina-brasil agencia contabil controle mater nuclear

UF brasil-argentina agencia contabil controle mater nuclear

UF nuclear mater, agencia brasil-argentina contabil controle

BT1 international organizations

RT safeguards

**ABANDONED SHAFTS**

INIS: 1991-12-18; ETDE: 1977-12-22

UF disused mineshafts

\*BT1 mine shafts

RT coal mines

RT mines

**ABANDONED SITES**

INIS: 1980-12-01; ETDE: 1978-10-23

RT land reclamation

RT remedial action

**ABANDONED WELLS**

INIS: 1992-03-05; ETDE: 1977-08-24

An oil or gas well that has been abandoned because its yield has fallen below that necessary for profitable production.

BT1 wells

RT natural gas wells

RT oil wells

**abashian-booth-crowe effect**

INIS: 1977-09-15; ETDE: 1977-11-09

USE abc effect

**ABC EFFECT**

INIS: 1977-09-15; ETDE: 1977-11-10

UF abashian-booth-crowe effect

RT interactions

RT missing-mass spectra

RT pions

**ABDOMEN**

1999-04-06

BT1 body

RT diaphragm

RT gastrointestinal tract

RT liver

RT peritoneum

RT spleen

**aberdeen maryland reactor**

1999-03-05

USE aprf reactor

**aberration yield**

USE mutation frequency

**ABFST EQUATION**

Amati-Bertocchi-Fabini-Strangellini-Tonin Equation.

BT1 equations

RT multiperipheral model

RT regge poles

RT scattering amplitudes

**abies**

INIS: 2000-04-12; ETDE: 1985-12-11

USE firs

**ABIOGENIC GAS**

INIS: 2000-04-12; ETDE: 1982-05-12

Methane deposits at great depths within the earth due to nonbiogenic processes.

\*BT1 natural gas

**ABLATION**

For the medical concept use *SURGERY* or *RADIOTHERAPY*.

- RT erosion
- RT heat transfer
- RT reentry
- RT refractories
- RT sublimation heat

**abmr method**

2002-11-14

- USE atomic beams
- USE magnetic resonance

**abnormalities (chromosomal)**

- USE chromosomal aberrations

**abnormalities (developmental)**

- USE malformations

**ABORTION**

- RT pregnancy
- RT reproductive disorders

**abragam model**

- USE abragam-pound theory

**ABRAGAM-POUND THEORY**

- UF *abragam model*
- RT angular correlation
- RT angular distribution

**ABRASION**

- RT abrasives
- RT erosion
- RT wear

**ABRASIVES**

(From April 1975 till March 1997 PUMICE was a valid ETDE descriptor.)

- SF *pumice*
- RT abrasion

**ABRIKOSOV THEORY**

- RT magnetic properties
- RT superconductivity
- RT superconductors

**abs (alkyl benzenesulfonates)**

ETDE: 2005-01-28

(Prior to January 2005 ABS was a valid descriptor.)

- USE alkyl benzenesulfonates

**ABSCESSES**

- BT1 pathological changes

**ABSCISIC ACID**

INIS: 2000-04-12; ETDE: 1985-05-07

A plant hormone that promotes abscission and plant dormancy.

- \*BT1 monocarboxylic acids
- BT1 plant growth regulators
- RT auxins
- RT hormones

**ABSCOPAL RADIATION EFFECTS**

- \*BT1 biological radiation effects
- RT local irradiation
- RT partial body irradiation
- RT radiotoxins

**ABSOLUTE COUNTING**

- BT1 counting techniques
- RT calibration

**ABSOLUTE INSTABILITIES**

A class of plasma instabilities growing exponentially with time at any point in space; opposite to *CONVECTIVE INSTABILITIES*.

- \*BT1 plasma instability
- RT briggs criterion
- RT convective instabilities

**absolute liability**

INIS: 1990-12-15; ETDE: 2002-06-06

(Prior to December 1990, this was a valid descriptor.)

- USE liabilities

**absolute zero temperature**

1992-09-30

(Prior to February 1992 this was a valid ETDE descriptor.)

- USE temperature zero k

**absorbed doses**

- USE radiation doses

**absorbed fraction (internal irradiation)**

- USE internal irradiation
- USE spatial dose distributions

**ABSORBENTS**

2006-02-06

- RT absorption
- RT sorptive properties

**ABSORBER PELLETS**

2003-10-21

- BT1 neutron absorbers
- BT1 pellets

**absorbers (solar)**

INIS: 2000-04-12; ETDE: 1977-10-19

- USE solar absorbers

**ABSORPTION**

1999-03-19

- UF *stopping (particle absorption)*
- BT1 sorption
- NT1 energy absorption
- NT1 intestinal absorption
- NT1 k absorption
- NT1 polar-cap absorption
- NT1 resonance absorption
- NT1 root absorption
- NT1 self-absorption
- NT1 skin absorption
- RT absorbents
- RT absorption refrigeration cycle
- RT absorption spectra
- RT absorption spectroscopy
- RT absorptivity
- RT half-thickness
- RT heterogeneous effects
- RT point kernels
- RT radiations
- RT range
- RT self-shielding
- RT shielding
- RT sinks
- RT slowing-down
- RT stopping power
- RT transmission

**absorption (intestinal)**

- USE intestinal absorption

**absorption (leaves)**

INIS: 1980-12-01; ETDE: 1981-01-09

- USE foliar uptake

**absorption (root)**

INIS: 1980-12-01; ETDE: 1981-01-09

- USE root absorption

**absorption (skin)**

- USE skin absorption

**ABSORPTION HEAT**

- UF *heat of absorption*
- \*BT1 enthalpy
- \*BT1 heat

- RT wetting heat

**absorption model**

2000-04-12

- USE linear absorption models

**absorption models (linear)**

INIS: 1976-02-11; ETDE: 2002-06-06

- USE linear absorption models

**ABSORPTION REFRIGERATION CYCLE**

INIS: 1992-04-16; ETDE: 1978-05-03

- BT1 thermodynamic cycles
- RT absorption
- RT air conditioners
- RT cooling systems
- RT refrigerating machinery
- RT refrigeration
- RT refrigerators

**ABSORPTION SPECTRA**

UF *spectra (absorption)*

- BT1 spectra
- RT absorption
- RT absorption spectroscopy
- RT optical depth curve
- RT spectroscopic curve of growth

**ABSORPTION SPECTROSCOPY**

UF *atomic absorption spectroscopy*

- UF *colorimetry*
- SF *spectrochemistry*
- BT1 spectroscopy
- RT absorption
- RT absorption spectra
- RT double resonance methods
- RT extreme ultraviolet spectra
- RT infrared spectra
- RT laser spectroscopy
- RT photoacoustic spectrometers
- RT structural chemical analysis
- RT ultraviolet spectra

**ABSORPTIVITY**

INIS: 1998-10-23; ETDE: 1975-09-30

Ratio of energy absorbed to energy incident upon a surface.

- BT1 physical properties
- BT1 surface properties
- RT absorption
- RT optical properties
- RT spectral reflectance

**absorptivity (optical)**

2000-03-24

- SEE opacity

**ABSTRACTS**

Use only for items about abstracts, not for items which are abstracts or collections of abstracts.

- NT1 leading abstract
- RT document types

**abu dhabi**

INIS: 1992-05-07; ETDE: 1976-08-05

- USE united arab emirates

**ABUNDANCE**

1992-03-09

- SF *concentration*
- SF *concentration (analytical)*
- SF *concentration dependence*
- NT1 element abundance
- RT chemical composition
- RT concentration ratio
- RT isotope ratio
- RT ore composition

**abundance (chemical)**

ETDE: 2002-06-06

USE chemical composition

**abundance (element)**

ETDE: 2002-06-06

USE element abundance

**abundance (isotopic)**

ETDE: 2002-06-06

USE isotope ratio

**abundance (mineral)**

ETDE: 2002-06-06

USE ore composition

**AC AMPLIFIERS**

\*BT1 amplifiers

**AC LOSSES**

1982-11-29

\*BT1 energy losses

RT superconductivity

**AC SYSTEMS**

INIS: 1991-12-17; ETDE: 1976-05-17

UF alternating current systems

\*BT1 power systems

NT1 ehv ac systems

NT1 hvac systems

NT1 uhv ac systems

**ac to dc converters**

2006-05-12

USE rectifiers

**ACCELERATION**

UF deceleration

NT1 plasma acceleration

RT accelerators

RT gravimetry

RT velocity

RT wakefield accelerators

**ACCELERATOR BREEDERS**

INIS: 1978-07-03; ETDE: 1978-01-23

*Accelerators used in the production of fissionable materials.*

RT accelerator driven transmutation

RT accelerators

RT breeder reactors

RT breeding

RT fissionable materials

RT nuclear fuels

**ACCELERATOR DRIVEN****TRANSMUTATION**

2000-03-14

UF *accelerator driven transmutation technologies*UF *adt*

BT1 transmutation

RT accelerator breeders

RT accelerators

RT radioactive waste processing

**accelerator driven transmutation****technologies**

2000-03-14

USE accelerator driven transmutation

**ACCELERATOR FACILITIES**

1995-05-10

UF *experimental facilities (accelerator)*UF *facilities (accelerator)*

NT1 target chambers

RT accelerators

RT advanced light source

RT advanced photon source

RT beam dumps

RT beam monitors

RT laboratory equipment

RT pigmi facilities

RT pohang light source

RT reaction product transport systems

RT stanford linear collider

RT swiss light source

**accelerator pulsed fast assembly**

1993-11-03

USE apfa-3 reactor

**ACCELERATORS**

NT1 coherent accelerators

NT1 collective accelerators

NT2 electron-ring accelerators

NT2 ionization front accelerators

NT2 plasma betatrons

NT1 cyclic accelerators

NT2 betatrons

NT2 bevalac

NT2 cyclotrons

NT3 cracow u-120 cyclotron

NT3 isochronous cyclotrons

NT4 aabo cyclotron

NT4 alice cyclotron

NT4 brookhaven cyclotron

NT4 cracow aic-144 cyclotron

NT4 crnl superconducting cyclotron

NT4 cyclone cyclotron

NT4 debrecen cyclotron

NT4 eindhoven cyclotron

NT4 ganil cyclotron

NT4 grenoble cyclotron

NT4 haizy cyclotron

NT4 hirfl cyclotron

NT4 inr cyclotron

NT4 ipcr cyclotron

NT4 iu cyclotron

NT4 jinr cyclotrons

NT5 jinr u-400 cyclotron

NT4 julic cyclotron

NT4 karlsruhe cyclotron

NT4 kazakhstan cyclotron

NT4 kiev cyclotron

NT4 kvi cyclotron

NT4 milan superconducting cyclotron

NT4 msu cyclotrons

NT4 munich compact cyclotron

NT4 munich suse cyclotron

NT4 nac cyclotron

NT4 nirs cyclotron

NT4 nrl cyclotron

NT4 ornl isochronous cyclotron

NT4 orsay cyclotron

NT4 oslo cyclotron

NT4 princeton cyclotron

NT4 rcnp cyclotron

NT4 sara cyclotron

NT4 sin cyclotron

NT4 texas a and m cyclotron

NT4 texas superconducting cyclotron

NT4 tohoku cyclotron

NT4 tokyo ins cyclotron

NT4 triumf cyclotron

NT4 uclrl cyclotrons

NT5 lbl 88-inch cyclotron

NT4 warsaw cyclotron

NT3 microtrons

NT4 racetrack microtrons

NT3 nbi cyclotron

NT3 separated orbit cyclotrons

NT3 superconducting cyclotrons

NT4 milan superconducting cyclotron

NT4 texas superconducting cyclotron

NT3 variable energy cyclotrons

NT4 calcutta cyclotron

NT4 chandigarh cyclotron

NT2 synchrocyclotrons

NT3 berkeley synchrocyclotron

NT3 cern synchrocyclotron

NT3 dubna synchrocyclotron

NT3 harvard synchrocyclotron

NT3 harwell synchrocyclotron

NT3 iko synchrocyclotron

NT3 leningrad synchrocyclotron

NT3 mcgill synchrocyclotron

NT3 orsay synchrocyclotron

NT3 uppsala synchrocyclotron

NT2 synchrotrons

NT3 bevatron

NT3 bonn synchrotron

NT3 brookhaven ags

NT3 cambridge electron accelerator

NT3 cern lhc

NT3 cern ps synchrotron

NT3 cern sps synchrotron

NT3 cornell 10-gev synchrotron

NT3 cosmotron

NT3 cosy storage ring

NT3 desy

NT3 erevan synchrotron

NT3 escar storage ring

NT3 fermilab accelerator

NT3 fermilab tevatron

NT3 fian synchrotron

NT3 frascati synchrotron

NT3 himac accelerator

NT3 ipns-i synchrotron

NT3 itep synchrotron

NT3 j-parc

NT3 jinr synchrotron

NT3 kek synchrotron

NT3 lampf ii synchrotron

NT3 lep storage rings

NT3 lusy

NT3 mura synchrotron

NT3 nimrod

NT3 nina

NT3 pakhra synchrotron

NT3 princeton synchrotron

NT3 saturne

NT3 saturne ii

NT3 serpukhov synchrotron

NT3 serpukhov tevatron

NT3 sis synchrotron

NT3 superconducting super collider

NT3 tokyo synchrotron

NT3 tomsk synchrotron

NT3 zgs

NT1 electrostatic accelerators

NT2 cockcroft-walton accelerators

NT2 dynamitrons

NT2 pelletron accelerators

NT3 5u pelletron accelerator

NT2 tandem electrostatic accelerators

NT3 antares tandem accelerator

NT3 crnl mp tandem accelerator

NT3 jaeri tandem accelerator

NT3 orsay tandem accelerator

NT3 vivitron tandem accelerator

NT2 van de graaff accelerators

NT3 crnl mp tandem accelerator

NT3 jaeri tandem accelerator

NT3 orsay tandem accelerator

NT3 vivitron tandem accelerator

NT1 heavy ion accelerators

NT2 brookhaven rhic

NT2 calcutta cyclotron

NT2 cracow u-120 cyclotron

NT2 crnl superconducting cyclotron

NT2 cyclone cyclotron

NT2 ganil cyclotron

NT2 hirfl accelerator

NT2 hilacs

NT3 atlas superconducting linac

NT3 superhilac

NT2 himac accelerator

NT2 hirfl cyclotron

**NT2** ipcr cyclotron  
**NT2** jinr u-400 cyclotron  
**NT2** kvi cyclotron  
**NT2** milan superconducting cyclotron  
**NT2** munich suse cyclotron  
**NT2** nac cyclotron  
**NT2** numatron accelerator  
**NT2** rcnp cyclotron  
**NT2** rilac  
**NT2** sis synchrotron  
**NT2** texas superconducting cyclotron  
**NT2** tohoku cyclotron  
**NT2** tokyo ins cyclotron  
**NT2** unilac  
**NT2** vicksi accelerator  
**NT2** warsaw cyclotron  
**NT1** linear accelerators  
**NT2** anu superconducting linac  
**NT2** beat wave accelerators  
**NT2** beijing electron-positron collider  
**NT2** beijing proton linac  
**NT2** brookhaven 200-mev linac  
**NT2** cebaf accelerator  
**NT2** cern linac  
**NT2** fmit linac  
**NT2** frascati linac  
**NT2** hilacs  
**NT3** atlas superconducting linac  
**NT3** superhilac  
**NT2** jaeri linac  
**NT2** kek linac  
**NT2** kharkov linac  
**NT2** lampf linac  
**NT2** linear colliders  
**NT3** stanford linear collider  
**NT3** tesla linear collider  
**NT2** llnl advanced test accelerator  
**NT2** mea linac  
**NT2** mit bates linac  
**NT2** nrl linac  
**NT2** orela  
**NT2** orsay linac  
**NT2** quadrupole linacs  
**NT2** rilac  
**NT2** saclay linac  
**NT2** stanford 1.2-gev linac  
**NT2** stanford 20-gev linac  
**NT2** swierk linac  
**NT2** unilac  
**NT2** wakefield accelerators  
**NT1** meson factories  
**NT2** lampf ii synchrotron  
**NT2** lampf linac  
**NT2** pigmi facilities  
**NT1** particle beam fusion accelerator  
**NT1** railgun accelerators  
**RT** acceleration  
**RT** accelerator breeders  
**RT** accelerator driven transmutation  
**RT** accelerator facilities  
**RT** beam dumps  
**RT** beam dynamics  
**RT** beam separators  
**RT** impact fusion drivers  
**RT** isotope production  
**RT** particle boosters  
**RT** storage rings  
**RT** target chambers  
**RT** vacuum systems

**ACCELEROMETERS**

**BT1** measuring instruments  
**RT** velocimeters

**acceptance (beam)**

**USE** beam acceptance

**access denial systems**

*INIS: 1986-07-09; ETDE: 1984-08-20*  
**USE** entry control systems

**ACCIDENT INSURANCE**

*INIS: 1976-12-08; ETDE: 1990-10-03*

**BT1** insurance  
**RT** accidents

**accidental intake**

**USE** accidents  
**USE** single intake

**accidental irradiation**

**USE** irradiation  
**USE** radiation accidents

**ACCIDENTS**

*1997-06-17*

**UF** accidental intake  
**UF** aircraft accidents  
**UF** emergencies  
**UF** incidents  
**UF** marine vehicle accidents  
**SF** disasters  
**NT1** blowouts  
**NT1** chemical spills  
**NT1** gas spills  
**NT1** hazardous materials spills  
**NT1** hypothetical accidents  
**NT1** industrial accidents  
**NT1** motor vehicle accidents  
**NT1** oil spills  
**NT1** radiation accidents  
**NT1** reactor accidents  
**NT2** design basis accidents  
**NT3** atws  
**NT3** maximum credible accident  
**NT2** excursions  
**NT2** loss of coolant  
**NT2** loss of flow  
**NT2** meltdown  
**NT2** power-cooling-mismatch accidents  
**NT2** reactor core disruption  
**NT2** rod drop accidents  
**NT2** rod ejection accidents  
**NT2** transient overpower accidents  
**RT** accident insurance  
**RT** aerial monitoring  
**RT** environment  
**RT** evacuation  
**RT** explosions  
**RT** failures  
**RT** fallout  
**RT** fires  
**RT** first aid  
**RT** fission products  
**RT** hazards  
**RT** human factors  
**RT** human factors engineering  
**RT** industrial medicine  
**RT** injuries  
**RT** liabilities  
**RT** mine rescue  
**RT** nuclear damage  
**RT** outages  
**RT** population relocation  
**RT** preventive medicine  
**RT** public anxiety  
**RT** radiation protection  
**RT** radioactive clouds  
**RT** reactor safety  
**RT** safety  
**RT** single intake  
**RT** site selection  
**RT** victims compensation  
**RT** workmens compensation

**acclimation**

*INIS: 1990-12-05; ETDE: 1975-10-28*  
 (Prior to December 1990, this was a valid descriptor.)  
**USE** biological adaptation

**accountability**

*INIS: 2000-04-12; ETDE: 1983-03-23*  
 (Prior to April 1992 this was a valid ETDE descriptor.)

**SEE** liabilities  
**SEE** nuclear materials management  
**SEE** personnel management

**accountability (legal)**

*INIS: 2000-04-12; ETDE: 1992-04-01*  
 (Prior to April 1992 ACCOUNTABILITY was used for this concept in ETDE.)  
**USE** liabilities

**accountability (nuclear materials)**

*INIS: 2000-04-12; ETDE: 1992-04-01*  
 (Prior to April 1992 ACCOUNTABILITY was used for this concept in ETDE.)  
**USE** nuclear materials management

**accountability (personnel)**

*INIS: 2000-04-12; ETDE: 1992-04-01*  
 (Prior to April 1992 ACCOUNTABILITY was used for this concept in ETDE.)  
**USE** personnel management

**ACCOUNTING**

*1999-01-20*

**UF** bookkeeping  
**NT1** energy accounting  
**RT** afudc  
**RT** amortization  
**RT** audits  
**RT** cwip  
**RT** debt collection  
**RT** inventories  
**RT** invoices  
**RT** losses  
**RT** management  
**RT** material balance  
**RT** material unaccounted for  
**RT** nuclear materials management  
**RT** procurement  
**RT** safeguards  
**RT** us gao

**accretion (planet-system)**

**USE** planet-system accretion

**accretion (stars)**

**USE** star accretion

**ACCRETION DISKS**

*INIS: 1982-04-13; ETDE: 1982-05-07*  
*Disks of matter which sometimes surround certain celestial objects, e.g. neutron stars.*

**UF** disks (accretion)  
**RT** black holes  
**RT** cosmic x-ray sources  
**RT** eruptive variable stars  
**RT** neutron stars  
**RT** star accretion  
**RT** symbiotic stars

**accumulation**

**USE** buildup

**accumulation (radioecological)**

**USE** radioecological concentration

**accumulators**

*2000-04-12*

(Prior to February 1997 this was a valid ETDE descriptor.)  
**USE** tanks

**accumulators (electric batteries)**

*INIS: 2000-04-12; ETDE: 1997-02-21*  
**USE** electric batteries

**ACCURACY**

UF precision  
 RT calibration  
 RT calibration standards  
 RT data covariances  
 RT errors  
 RT inspection  
 RT reliability  
 RT resolution  
 RT sensitivity  
 RT signal-to-noise ratio  
 RT specificity  
 RT tolerance

**ACENAPHTHENE**

\*BT1 condensed aromatics  
 \*BT1 hydrocarbons  
 RT naphthalene

**aces (quarks)**

1975-08-11  
 USE quarks

**ACETABULARIA**

\*BT1 chlorophycota

**ACETAL**

UF 1,1-diethoxyethane  
 \*BT1 acetals  
 RT acetaldehyde

**ACETALDEHYDE**

UF acetic aldehyde  
 UF ethanal  
 UF ethylaldehyde  
 \*BT1 aldehydes  
 RT acetal  
 RT chloral

**ACETALS**

\*BT1 ethers  
 NT1 acetal  
 RT polyacetals

**ACETAMIDE**

1996-10-23  
 \*BT1 amides  
 RT acetic acid

**ACETATES**

BT1 carboxylic acid salts  
 RT acetic acid esters

**ACETIC ACID**

\*BT1 monocarboxylic acids  
 RT acetamide  
 RT acetolysis  
 RT acetonitrile

**ACETIC ACID ESTERS**

1996-10-23  
 (Prior to March 1997 isopentyl acetate was a valid ETDE descriptor.)  
 UF amy acetate  
 UF isoamyl acetate  
 UF isopentyl acetate  
 \*BT1 carboxylic acid esters  
 NT1 methyl acetate  
 NT1 polyvinyl acetate  
 NT1 vinyl acetate  
 RT acetates

**acetic aldehyde**

USE acetaldehyde

**ACETOACETATES**

BT1 carboxylic acid salts

**ACETOACETIC ACID**

UF ketobutyric acid-beta  
 \*BT1 keto acids

**ACETOACETIC ACID ESTERS**

\*BT1 carboxylic acid esters

**ACETOLYSIS**

\*BT1 solvolysis  
 RT acetic acid

**ACETONE**

UF dimethyl ketone  
 UF oxopropane  
 UF propanone  
 \*BT1 ketones

**ACETONITRILE**

1981-07-06  
 \*BT1 nitriles  
 RT acetic acid

**acetophenetidin**

INIS: 2000-04-12; ETDE: 1981-04-20  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 USE analgesics  
 USE antipyretics

**ACETOPHENONE**

UF acetylbenzene  
 UF methyl phenyl ketone  
 \*BT1 aromatics  
 \*BT1 ketones

**acetyl propionyl**

USE 2-3-pentanedione

**ACETYL RADICALS**

\*BT1 acyl radicals

**ACETYLACETONE**

UF 2,4-pentanedione  
 BT1 chelating agents  
 \*BT1 ketones  
 BT1 reagents

**ACETYLAMINOFLUORENES**

INIS: 2000-04-12; ETDE: 1985-09-23  
 UF aaf  
 RT carcinogens  
 RT polycyclic aromatic amines

**ACETYLATION**

\*BT1 acylation

**acetylbenzene**

USE acetophenone

**ACETYLCHOLINE**

\*BT1 esters  
 \*BT1 neuroregulators  
 \*BT1 parasympathomimetics  
 \*BT1 quaternary compounds  
 RT choline  
 RT cholinesterase

**ACETYLENE**

UF ethine  
 UF ethyne  
 \*BT1 alkynes  
 RT polyacetylenes

**acetylenes**

USE alkynes

**acetylpropionic acid-beta**

USE levulinic acid

**ACETYLSALICYLIC ACID**

INIS: 1976-02-05; ETDE: 1976-03-12  
 UF aspirin  
 \*BT1 analgesics  
 \*BT1 antipyretics  
 \*BT1 hydroxy acids

**achiral**

INIS: 2000-04-12; ETDE: 1976-02-23  
 USE racemates

**ACHOLEPLASMA LAIDLAWII B**

\*BT1 mycoplasma

**ACHONDRITES**

\*BT1 stone meteorites

**ACHROMATIC LESIONS**

RT chromatin

**ACID ANHYDRASES**

INIS: 1986-12-03; ETDE: 1981-01-12  
 Code number 3.6.  
 \*BT1 hydrolases  
 NT1 gtp-ases  
 NT1 phosphohydrolases  
 NT2 atp-ase

**ACID CARBONATES**

INIS: 1985-11-18; ETDE: 1977-07-23  
 (Prior to December 1985 BICARBONATES was used for this concept.)  
 UF bicarbonates  
 RT acid neutralizing capacity  
 RT carbonates  
 RT inorganic acids

**acid chrome dyes**

1996-10-22  
 (Until October 1996 this was a valid descriptor.)  
 USE azo dyes  
 USE naphthols  
 USE sulfonic acids

**ACID ELECTROLYTE FUEL CELLS**

1992-05-20  
 \*BT1 fuel cells

**acid halides**

2000-04-12  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE carboxylic acids  
 USE halides

**ACID HYDROLYSIS**

INIS: 1997-06-17; ETDE: 1976-05-13  
 \*BT1 hydrolysis  
 RT alkaline hydrolysis  
 RT enzymatic hydrolysis

**ACID MINE DRAINAGE**

INIS: 1992-03-12; ETDE: 1976-01-07  
 RT coal mining  
 RT land pollution  
 RT liquid wastes  
 RT mine draining  
 RT mining  
 RT spoil banks  
 RT waste water  
 RT water pollution

**ACID NEUTRALIZING CAPACITY**

INIS: 1992-04-16; ETDE: 1984-08-06  
 The total quantity of base in natural waters, usually in equilibrium with carbonate or bicarbonate, as determined by titration with strong acid.  
 UF alkalinity  
 \*BT1 water chemistry  
 RT acid carbonates  
 RT acid rain  
 RT bases  
 RT buffers  
 RT carbonates  
 RT geochemistry  
 RT limnology  
 RT organic matter

RT ph value  
RT soils  
RT titration

**ACID PHOSPHATASE**

Code number 3.1.3.2.  
\*BT1 phosphatases

**acid phosphates**

INIS: 2000-04-12; ETDE: 1977-07-23  
(Prior to February 1997 this was a valid ETDE descriptor.)  
USE phosphates

**ACID PROTEINASES**

INIS: 1986-12-03; ETDE: 1981-01-12  
Code number 3.4.23.  
\*BT1 peptide hydrolases  
NT1 pepsin

**ACID RAIN**

INIS: 1991-08-02; ETDE: 1976-03-22  
\*BT1 rain  
RT acid neutralizing capacity  
RT air pollution  
RT climatic change  
RT interception  
RT throughfall  
RT us napap

**acid silicates**

INIS: 2000-04-12; ETDE: 1977-07-23  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE silicates

**ACID SULFATES**

INIS: 2000-04-12; ETDE: 1978-03-03  
UF bisulfates  
\*BT1 sulfates  
RT inorganic acids  
RT sulfuric acid

**ACID SULFITES**

INIS: 2000-04-12; ETDE: 1982-01-07  
\*BT1 sulfites  
RT inorganic acids  
RT sulfuric acid

**ACIDIFICATION**

INIS: 1983-03-14; ETDE: 1977-12-22  
The act or process of acidifying.  
RT chemical reactions  
RT inorganic acids  
RT organic acids

**acidity**

USE ph value

**ACIDIZATION**

INIS: 1999-01-20; ETDE: 1976-03-11  
Treatment of a reservoir formation with acid to assist the flow of crude oil or gas by improving the permeability of the reservoir rock.  
RT enhanced recovery  
RT natural gas deposits  
RT petroleum deposits  
RT well stimulation

**acids (inorganic)**

USE inorganic acids

**acids (organic)**

USE organic acids

**aco (anneau de collisions d'orsay)**

ETDE: 2005-01-28  
(Prior to January 2005 ACO was a valid descriptor.)  
USE orsay storage rings

**ACOUSTIC AGGLOMERATORS**

INIS: 2000-04-12; ETDE: 1981-08-21  
\*BT1 pollution control equipment  
RT aerosols  
RT dusts  
RT hot gas cleanup  
RT sound waves

**ACOUSTIC DETECTION**

INIS: 1983-06-30; ETDE: 1979-09-06  
Charged particle detection technique based on sonic signal produced by charged particles traversing fluid media.  
BT1 acoustic measurements  
\*BT1 charged particle detection  
RT acoustic monitoring  
RT dumand project  
RT sound waves

**acoustic electron spin resonance**

USE acoustic esr

**ACOUSTIC EMISSION TESTING**

\*BT1 acoustic testing

**ACOUSTIC ESR**

UF acoustic electron spin resonance  
UF aepr  
UF aesr  
UF paramagnetic resonance (electron acoustic)  
SF electron-spin echo  
\*BT1 electron spin resonance  
RT attenuation  
RT phonons  
RT resonance scattering  
RT sound waves

**ACOUSTIC HEATING**

\*BT1 magnetic-pumping heating

**ACOUSTIC INSULATION**

1995-07-03  
UF insulation (acoustic)  
UF soundproofing  
RT acoustic measurements  
RT acoustic monitoring  
RT acoustics

**ACOUSTIC MEASUREMENTS**

INIS: 1995-07-03; ETDE: 1976-07-07  
Measurements of properties, quantities, or conditions of acoustical, i.e. Mechanical, waves.  
UF sonic measurements  
NT1 acoustic detection  
RT acoustic insulation  
RT acoustic monitoring  
RT acoustic testing  
RT noise dosimeters  
RT seismic surveys  
RT seismographs  
RT sonic logging  
RT sonic probes  
RT sound waves  
RT ultrasonic testing

**ACOUSTIC MICROSCOPY**

INIS: 1993-04-07; ETDE: 1984-07-10  
UF scanning acoustic microscopy  
BT1 microscopy  
RT acoustic testing  
RT mechanical properties

**ACOUSTIC MONITORING**

1995-07-03  
UF microseismic monitoring  
BT1 monitoring  
RT acoustic detection  
RT acoustic insulation  
RT acoustic measurements  
RT in core instruments

RT reactor instrumentation  
RT reactor monitoring systems  
RT sonic logging  
RT sound waves

**ACOUSTIC NMR**

UF acoustic nuclear magnetic resonance  
UF anmr  
UF nuclear acoustic resonance  
UF paramagnetic resonance (nuclear acoustic)  
\*BT1 nuclear magnetic resonance  
RT attenuation  
RT phonons  
RT resonance scattering  
RT sound waves

**acoustic nuclear magnetic resonance**

1993-11-03  
USE acoustic nmr

**ACOUSTIC RADAR**

INIS: 1993-05-06; ETDE: 1980-03-29  
Use of sound waves with RADAR techniques for remote probing of the lower atmosphere.  
\*BT1 radar  
RT meteorology  
RT remote sensing  
RT sound waves

**acoustic spark chambers**

USE sonic spark chambers

**ACOUSTIC TESTING**

\*BT1 nondestructive testing  
NT1 acoustic emission testing  
NT1 ultrasonic testing  
RT acoustic measurements  
RT acoustic microscopy

**ACOUSTICS**

INIS: 1999-01-20; ETDE: 1976-01-23  
NT1 magnetoacoustics  
RT acoustic insulation  
RT photoacoustic effect  
RT sound waves  
RT speech synthesizers

**ACPR REACTOR**

Sandia National Laboratories, Albuquerque, New Mexico, USA. Shut down in 1977.  
UF acrr reactor  
UF annular core pulse reactor  
UF annular core research reactor  
\*BT1 enriched uranium reactors  
\*BT1 hydride moderated reactors  
\*BT1 mixed spectrum reactors  
\*BT1 pulsed reactors  
\*BT1 research reactors  
\*BT1 solid homogeneous reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**acquired immunodeficiency syndrome**

INIS: 2000-04-12; ETDE: 1986-03-04  
USE aids

**acquired immunodeficiency virus**

INIS: 1993-11-03; ETDE: 2002-06-06  
USE aids virus

**acquisition (data)**

USE data acquisition

**acraldehyde**

USE acrolein

**ACRIDINE ORANGE**

\*BT1 acridines  
\*BT1 amines  
BT1 dyes



**ACRIDINES**

- UF* acridones  
 \*BT1 azaarenes  
 \*BT1 pyridines  
 NT1 acridine orange  
 NT1 flavines  
 NT2 acriflavine  
 NT2 proflavine

**acridones**

- 2000-04-12  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 USE acridines  
 USE ketones

**ACRIFLAVINE**

- UF* euflavine  
*UF* tryptaflavine  
 \*BT1 flavines  
 RT proflavine

**ACROCENTRIC CHROMOSOMES**

- ETDE: 1975-09-11  
 BT1 chromosomes  
 RT chromosomal aberrations  
 RT karyotype

**acroleic acid**

- USE acrylic acid

**ACROLEIN**

- UF* acraldehyde  
*UF* acrylic aldehyde  
*UF* propenal  
 \*BT1 aldehydes  
 RT vinyl monomers

**ACROMEGALY**

- \*BT1 endocrine diseases  
 RT pituitary gland  
 RT sth

**acrr reactor**

- INIS: 2000-04-12; ETDE: 1979-10-23  
 USE acpr reactor

**ACRYLAMIDE**

- \*BT1 amides  
 RT acrylic acid  
 RT vinyl monomers

**ACRYLATES**

- BT1 carboxylic acid salts  
 RT acrylic acid esters  
 RT vinyl monomers

**ACRYLIC ACID**

- UF* acroleic acid  
*UF* ethylenecarboxylic acid  
 \*BT1 monocarboxylic acids  
 RT acrylamide  
 RT acrylonitrile  
 RT vinyl monomers

**ACRYLIC ACID ESTERS**

- \*BT1 carboxylic acid esters  
 RT acrylates  
 RT vinyl monomers

**acrylic aldehyde**

- USE acrolein

**acrylic polymers**

- USE polyacrylates

**ACRYLONITRILE**

- UF* vinyl cyanide  
 \*BT1 nitriles  
 RT acrylic acid  
 RT organic polymers  
 RT vinyl monomers

**ACT DEVICES**

- INIS: 1985-12-11; ETDE: 1985-08-08  
 Advanced Concept Torus.  
 \*BT1 tokamak devices

**actf**

- INIS: 2000-04-12; ETDE: 1981-03-17  
 USE advanced components test facility

**ACTH**

- UF* adrenocorticotropic hormone  
 \*BT1 pituitary hormones  
 RT adrenal glands  
 RT corticosteroids  
 RT glucocorticoids

**ACTIN**

- \*BT1 proteins  
 RT muscles  
 RT tropomyosin

**ACTINIDE ALLOYS**

- BT1 alloys  
 NT1 americium alloys  
 NT1 berkelium alloys  
 NT1 californium alloys  
 NT1 curium alloys  
 NT2 curium additions  
 NT1 einsteinium alloys  
 NT1 neptunium alloys  
 NT2 neptunium additions  
 NT1 plutonium alloys  
 NT2 plutonium base alloys  
 NT1 protactinium alloys  
 NT1 thorium alloys  
 NT2 magnesium alloy-hk31a  
 NT2 thorium additions  
 NT2 thorium base alloys  
 NT1 uranium alloys  
 NT2 uranium base alloys  
 NT3 alloy-u90nb7zr3  
 RT rare earth alloys

**ACTINIDE BURNER REACTORS**

- INIS: 1980-07-24; ETDE: 1979-03-28  
 Reactors which convert radioactive waste actinides to useful or less harmful elements by fission reactions.  
 \*BT1 fast reactors  
 RT radioactive waste disposal

**ACTINIDE COMPLEXES**

- 1996-07-18  
*UF* lawrencium complexes  
 BT1 complexes  
 NT1 actinium complexes  
 NT1 americium complexes  
 NT1 berkelium complexes  
 NT1 californium complexes  
 NT1 curium complexes  
 NT1 einsteinium complexes  
 NT1 fermium complexes  
 NT1 mendelevium complexes  
 NT1 neptunium complexes  
 NT2 neptunyl complexes  
 NT1 nobelium complexes  
 NT1 plutonium complexes  
 NT2 plutonyl complexes  
 NT1 protactinium complexes  
 NT1 thorium complexes  
 NT1 uranium complexes  
 NT2 uranyl complexes

**ACTINIDE COMPOUNDS**

- NT1 actinium compounds  
 NT2 actinium bromides  
 NT2 actinium halides  
 NT3 actinium chlorides  
 NT3 actinium fluorides  
 NT2 actinium hydroxides  
 NT2 actinium oxides

- NT2 actinium sulfates  
 NT1 americium compounds  
 NT2 americium arsenides  
 NT2 americium bromides  
 NT2 americium carbides  
 NT2 americium carbonates  
 NT2 americium chlorides  
 NT2 americium fluorides  
 NT2 americium halides  
 NT3 americium iodides  
 NT2 americium hydrides  
 NT2 americium hydroxides  
 NT2 americium nitrates  
 NT2 americium nitrides  
 NT2 americium oxides  
 NT2 americium perchlorates  
 NT2 americium phosphates  
 NT2 americium phosphides  
 NT2 americium selenides  
 NT2 americium silicates  
 NT2 americium silicides  
 NT2 americium sulfates  
 NT2 americium sulfides  
 NT2 americium tellurides  
 NT1 berkelium compounds  
 NT2 berkelium arsenides  
 NT2 berkelium bromides  
 NT2 berkelium chlorides  
 NT2 berkelium fluorides  
 NT2 berkelium hydrides  
 NT2 berkelium nitrates  
 NT2 berkelium nitrides  
 NT2 berkelium oxides  
 NT2 berkelium phosphates  
 NT2 berkelium phosphides  
 NT2 berkelium selenides  
 NT2 berkelium sulfates  
 NT2 berkelium sulfides  
 NT2 berkelium tellurides  
 NT1 californium compounds  
 NT2 californium arsenides  
 NT2 californium bromides  
 NT2 californium chlorides  
 NT2 californium fluorides  
 NT2 californium halides  
 NT3 californium iodides  
 NT2 californium nitrates  
 NT2 californium nitrides  
 NT2 californium oxides  
 NT2 californium selenides  
 NT2 californium sulfides  
 NT2 californium tellurides  
 NT1 curium compounds  
 NT2 curium arsenides  
 NT2 curium bromides  
 NT2 curium carbonates  
 NT2 curium chlorides  
 NT2 curium fluorides  
 NT2 curium hydrides  
 NT2 curium hydroxides  
 NT2 curium iodides  
 NT2 curium nitrates  
 NT2 curium nitrides  
 NT2 curium oxides  
 NT2 curium phosphides  
 NT2 curium selenides  
 NT2 curium silicates  
 NT2 curium sulfides  
 NT2 curium tellurides  
 NT1 einsteinium compounds  
 NT2 einsteinium bromides  
 NT2 einsteinium chlorides  
 NT2 einsteinium halides  
 NT3 einsteinium fluorides  
 NT3 einsteinium iodides  
 NT2 einsteinium nitrates  
 NT2 einsteinium oxides  
 NT1 fermium compounds  
 NT2 fermium bromides

NT2 fermium halides  
 NT3 fermium chlorides  
 NT3 fermium iodides  
 NT2 fermium oxides  
 NT1 lawrencium compounds  
 NT1 mendeleevium compounds  
 NT2 mendeleevium oxides  
 NT1 neptunium compounds  
 NT2 neptunium arsenides  
 NT2 neptunium borides  
 NT2 neptunium bromides  
 NT2 neptunium carbides  
 NT2 neptunium carbonates  
 NT2 neptunium chlorides  
 NT2 neptunium fluorides  
 NT2 neptunium hydrides  
 NT2 neptunium hydroxides  
 NT2 neptunium iodides  
 NT2 neptunium nitrates  
 NT2 neptunium nitrides  
 NT2 neptunium oxides  
 NT2 neptunium perchlorates  
 NT2 neptunium phosphates  
 NT2 neptunium phosphides  
 NT2 neptunium selenides  
 NT2 neptunium sulfates  
 NT2 neptunium sulfides  
 NT2 neptunium tellurides  
 NT2 neptunyl compounds  
 NT1 nobelium compounds  
 NT2 nobelium oxides  
 NT1 plutonium compounds  
 NT2 plutonium arsenides  
 NT2 plutonium borides  
 NT2 plutonium bromides  
 NT2 plutonium carbides  
 NT2 plutonium carbonates  
 NT2 plutonium chlorides  
 NT2 plutonium fluorides  
 NT2 plutonium hydrides  
 NT2 plutonium hydroxides  
 NT2 plutonium iodides  
 NT2 plutonium nitrates  
 NT2 plutonium nitrides  
 NT2 plutonium oxides  
 NT3 plutonium dioxide  
 NT2 plutonium perchlorates  
 NT2 plutonium peroxide  
 NT2 plutonium phosphates  
 NT2 plutonium phosphides  
 NT2 plutonium selenides  
 NT2 plutonium silicates  
 NT2 plutonium sulfates  
 NT2 plutonium sulfides  
 NT2 plutonium tellurides  
 NT2 plutonyl compounds  
 NT1 protactinium compounds  
 NT2 actinium hydrides  
 NT2 protactinium bromides  
 NT2 protactinium carbides  
 NT2 protactinium chlorides  
 NT2 protactinium fluorides  
 NT2 protactinium halides  
 NT3 protactinium iodides  
 NT2 protactinium hydrides  
 NT2 protactinium hydroxides  
 NT2 protactinium nitrates  
 NT2 protactinium oxides  
 NT2 protactinium phosphates  
 NT2 protactinium sulfates  
 NT1 thorium compounds  
 NT2 thorium arsenides  
 NT2 thorium borides  
 NT2 thorium bromides  
 NT2 thorium carbides  
 NT2 thorium carbonates  
 NT2 thorium chlorides  
 NT2 thorium fluorides  
 NT2 thorium hydrides

NT2 thorium hydroxides  
 NT2 thorium iodides  
 NT2 thorium nitrates  
 NT2 thorium nitrides  
 NT2 thorium oxides  
 NT3 thorotrast  
 NT2 thorium perchlorates  
 NT2 thorium phosphates  
 NT2 thorium phosphides  
 NT2 thorium selenides  
 NT2 thorium silicates  
 NT2 thorium silicides  
 NT2 thorium sulfates  
 NT2 thorium sulfides  
 NT2 thorium tellurides  
 NT2 thorium tungstates  
 NT1 uranium compounds  
 NT2 uranates  
 NT3 ammonium uranates  
 NT4 adu  
 NT3 bismuth uranates  
 NT3 cesium uranates  
 NT3 lithium uranates  
 NT3 potassium uranates  
 NT3 rubidium uranates  
 NT3 sodium uranates  
 NT3 strontium uranates  
 NT3 thallium uranates  
 NT2 uranium arsenides  
 NT2 uranium borides  
 NT2 uranium borohydrides  
 NT2 uranium bromides  
 NT2 uranium carbides  
 NT2 uranium carbonates  
 NT2 uranium chlorides  
 NT2 uranium fluorides  
 NT3 uranium hexafluoride  
 NT3 uranium pentafluoride  
 NT3 uranium tetrafluoride  
 NT2 uranium hydrides  
 NT2 uranium hydroxides  
 NT2 uranium iodides  
 NT2 uranium nitrates  
 NT2 uranium nitrides  
 NT2 uranium oxides  
 NT3 uranium dioxide  
 NT3 uranium oxides u3o8  
 NT3 uranium trioxide  
 NT2 uranium perchlorates  
 NT2 uranium peroxide  
 NT2 uranium phosphates  
 NT2 uranium phosphides  
 NT2 uranium selenides  
 NT2 uranium silicates  
 NT2 uranium silicides  
 NT2 uranium sulfates  
 NT2 uranium sulfides  
 NT2 uranium tellurides  
 NT2 uranium tungstates  
 NT2 uranium vanadates  
 NT2 uranyl compounds  
 NT3 auc  
 NT3 uranyl carbonates  
 NT3 uranyl chlorides  
 NT3 uranyl fluorides  
 NT3 uranyl nitrates  
 NT4 unh  
 NT3 uranyl perchlorates  
 NT3 uranyl phosphates  
 NT3 uranyl silicates  
 NT3 uranyl sulfates  
 NT3 uranyl tungstates

### actinide isotopes

INIS: 2000-04-12; ETDE: 1976-05-17

(Prior to March 1997 this was a valid ETDE descriptor.)

USE actinide nuclei

### ACTINIDE NUCLEI

1996-01-11

UF actinide isotopes

\*BT1 heavy nuclei

NT1 actinium 206  
 NT1 actinium 207  
 NT1 actinium 208  
 NT1 actinium 209  
 NT1 actinium 210  
 NT1 actinium 211  
 NT1 actinium 212  
 NT1 actinium 213  
 NT1 actinium 214  
 NT1 actinium 215  
 NT1 actinium 216  
 NT1 actinium 217  
 NT1 actinium 218  
 NT1 actinium 219  
 NT1 actinium 220  
 NT1 actinium 221  
 NT1 actinium 222  
 NT1 actinium 223  
 NT1 actinium 224  
 NT1 actinium 225  
 NT1 actinium 226  
 NT1 actinium 227  
 NT1 actinium 228  
 NT1 actinium 229  
 NT1 actinium 230  
 NT1 actinium 231  
 NT1 actinium 232  
 NT1 actinium 233  
 NT1 actinium 234  
 NT1 actinium 235  
 NT1 actinium 236  
 NT1 americium 231  
 NT1 americium 232  
 NT1 americium 233  
 NT1 americium 234  
 NT1 americium 235  
 NT1 americium 236  
 NT1 americium 237  
 NT1 americium 238  
 NT1 americium 239  
 NT1 americium 240  
 NT1 americium 241  
 NT1 americium 242  
 NT1 americium 243  
 NT1 americium 244  
 NT1 americium 245  
 NT1 americium 246  
 NT1 americium 247  
 NT1 americium 248  
 NT1 americium 249  
 NT1 berkelium 235  
 NT1 berkelium 236  
 NT1 berkelium 237  
 NT1 berkelium 238  
 NT1 berkelium 239  
 NT1 berkelium 240  
 NT1 berkelium 241  
 NT1 berkelium 242  
 NT1 berkelium 243  
 NT1 berkelium 244  
 NT1 berkelium 245  
 NT1 berkelium 246  
 NT1 berkelium 247  
 NT1 berkelium 248  
 NT1 berkelium 249  
 NT1 berkelium 250  
 NT1 berkelium 251  
 NT1 berkelium 252  
 NT1 berkelium 253  
 NT1 berkelium 254  
 NT1 californium 236  
 NT1 californium 237  
 NT1 californium 238  
 NT1 californium 239  
 NT1 californium 240

NT1	californium 241	NT1	lawrencium 255	NT1	plutonium 241
NT1	californium 242	NT1	lawrencium 256	NT1	plutonium 242
NT1	californium 243	NT1	lawrencium 257	NT1	plutonium 243
NT1	californium 244	NT1	lawrencium 258	NT1	plutonium 244
NT1	californium 245	NT1	lawrencium 259	NT1	plutonium 245
NT1	californium 246	NT1	lawrencium 260	NT1	plutonium 246
NT1	californium 247	NT1	lawrencium 261	NT1	plutonium 247
NT1	californium 248	NT1	lawrencium 262	NT1	plutonium 248
NT1	californium 249	NT1	lawrencium 263	NT1	plutonium 250
NT1	californium 250	NT1	lawrencium 264	NT1	protactinium 212
NT1	californium 251	NT1	lawrencium 265	NT1	protactinium 213
NT1	californium 252	NT1	lawrencium 266	NT1	protactinium 214
NT1	californium 253	NT1	mendelevium 245	NT1	protactinium 215
NT1	californium 254	NT1	mendelevium 246	NT1	protactinium 216
NT1	californium 255	NT1	mendelevium 247	NT1	protactinium 217
NT1	californium 256	NT1	mendelevium 248	NT1	protactinium 218
NT1	curium 232	NT1	mendelevium 249	NT1	protactinium 219
NT1	curium 233	NT1	mendelevium 250	NT1	protactinium 220
NT1	curium 234	NT1	mendelevium 251	NT1	protactinium 221
NT1	curium 235	NT1	mendelevium 252	NT1	protactinium 222
NT1	curium 236	NT1	mendelevium 253	NT1	protactinium 223
NT1	curium 237	NT1	mendelevium 254	NT1	protactinium 224
NT1	curium 238	NT1	mendelevium 255	NT1	protactinium 225
NT1	curium 239	NT1	mendelevium 256	NT1	protactinium 226
NT1	curium 240	NT1	mendelevium 257	NT1	protactinium 227
NT1	curium 241	NT1	mendelevium 258	NT1	protactinium 228
NT1	curium 242	NT1	mendelevium 259	NT1	protactinium 229
NT1	curium 243	NT1	mendelevium 260	NT1	protactinium 230
NT1	curium 244	NT1	mendelevium 261	NT1	protactinium 231
NT1	curium 245	NT1	mendelevium 262	NT1	protactinium 232
NT1	curium 246	NT1	neptunium 225	NT1	protactinium 233
NT1	curium 247	NT1	neptunium 226	NT1	protactinium 234
NT1	curium 248	NT1	neptunium 227	NT1	protactinium 235
NT1	curium 249	NT1	neptunium 228	NT1	protactinium 236
NT1	curium 250	NT1	neptunium 229	NT1	protactinium 237
NT1	curium 251	NT1	neptunium 230	NT1	protactinium 238
NT1	curium 252	NT1	neptunium 231	NT1	protactinium 239
NT1	einsteinium 240	NT1	neptunium 232	NT1	protactinium 240
NT1	einsteinium 241	NT1	neptunium 233	NT1	thorium 208
NT1	einsteinium 242	NT1	neptunium 234	NT1	thorium 209
NT1	einsteinium 243	NT1	neptunium 235	NT1	thorium 210
NT1	einsteinium 244	NT1	neptunium 236	NT1	thorium 211
NT1	einsteinium 245	NT1	neptunium 237	NT1	thorium 212
NT1	einsteinium 246	NT1	neptunium 238	NT1	thorium 213
NT1	einsteinium 247	NT1	neptunium 239	NT1	thorium 214
NT1	einsteinium 248	NT1	neptunium 240	NT1	thorium 215
NT1	einsteinium 249	NT1	neptunium 241	NT1	thorium 216
NT1	einsteinium 250	NT1	neptunium 242	NT1	thorium 217
NT1	einsteinium 251	NT1	neptunium 243	NT1	thorium 218
NT1	einsteinium 252	NT1	neptunium 244	NT1	thorium 219
NT1	einsteinium 253	NT1	nobelium 248	NT1	thorium 220
NT1	einsteinium 254	NT1	nobelium 250	NT1	thorium 221
NT1	einsteinium 255	NT1	nobelium 251	NT1	thorium 222
NT1	einsteinium 256	NT1	nobelium 252	NT1	thorium 223
NT1	einsteinium 257	NT1	nobelium 253	NT1	thorium 224
NT1	einsteinium 258	NT1	nobelium 254	NT1	thorium 225
NT1	fermium 242	NT1	nobelium 255	NT1	thorium 226
NT1	fermium 243	NT1	nobelium 256	NT1	thorium 227
NT1	fermium 244	NT1	nobelium 257	NT1	thorium 228
NT1	fermium 245	NT1	nobelium 258	NT1	thorium 229
NT1	fermium 246	NT1	nobelium 259	NT1	thorium 230
NT1	fermium 247	NT1	nobelium 260	NT1	thorium 231
NT1	fermium 248	NT1	nobelium 261	NT1	thorium 232
NT1	fermium 249	NT1	nobelium 262	NT1	thorium 233
NT1	fermium 250	NT1	nobelium 263	NT1	thorium 234
NT1	fermium 251	NT1	nobelium 264	NT1	thorium 235
NT1	fermium 252	NT1	plutonium 228	NT1	thorium 236
NT1	fermium 253	NT1	plutonium 229	NT1	thorium 237
NT1	fermium 254	NT1	plutonium 230	NT1	thorium 238
NT1	fermium 255	NT1	plutonium 231	NT1	uranium 217
NT1	fermium 256	NT1	plutonium 232	NT1	uranium 218
NT1	fermium 257	NT1	plutonium 233	NT1	uranium 219
NT1	fermium 258	NT1	plutonium 234	NT1	uranium 220
NT1	fermium 259	NT1	plutonium 235	NT1	uranium 221
NT1	fermium 260	NT1	plutonium 236	NT1	uranium 222
NT1	lawrencium 251	NT1	plutonium 237	NT1	uranium 223
NT1	lawrencium 252	NT1	plutonium 238	NT1	uranium 224
NT1	lawrencium 253	NT1	plutonium 239	NT1	uranium 225
NT1	lawrencium 254	NT1	plutonium 240	NT1	uranium 226

NT1 uranium 227  
 NT1 uranium 228  
 NT1 uranium 229  
 NT1 uranium 230  
 NT1 uranium 231  
 NT1 uranium 232  
 NT1 uranium 233  
 NT1 uranium 234  
 NT1 uranium 235  
 NT1 uranium 236  
 NT1 uranium 237  
 NT1 uranium 238  
 NT1 uranium 239  
 NT1 uranium 240  
 NT1 uranium 241  
 NT1 uranium 242

**ACTINIDES**

\*BT1 metals  
 NT1 actinium  
 NT1 americium  
 NT1 berkelium  
 NT1 californium  
 NT1 curium  
 NT1 einsteinium  
 NT1 fermium  
 NT1 lawrencium  
 NT1 mendelevium  
 NT1 neptunium  
 NT2 neptunium-alpha  
 NT2 neptunium-gamma  
 NT1 nobelium  
 NT1 plutonium  
 NT2 plutonium-alpha  
 NT2 plutonium-beta  
 NT2 plutonium-delta  
 NT2 plutonium-epsilon  
 NT2 plutonium-gamma  
 NT1 protactinium  
 NT1 thorium  
 NT2 thorium-alpha  
 NT2 thorium-beta  
 NT1 uranium  
 NT2 depleted uranium  
 NT2 enriched uranium  
 NT3 highly enriched uranium  
 NT3 moderately enriched uranium  
 NT3 slightly enriched uranium  
 NT2 natural uranium  
 NT2 uranium-alpha  
 NT2 uranium-beta  
 NT2 uranium-gamma  
 RT transplutonium elements  
 RT transuranium elements

**ACTINIUM**

\*BT1 actinides

**ACTINIUM 206**

2007-09-25

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 207**

INIS: 1994-12-22; ETDE: 1995-01-03

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 208**

INIS: 1994-12-22; ETDE: 1995-01-03

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 209**

INIS: 1986-05-12; ETDE: 1986-07-03

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 210**

INIS: 1986-05-12; ETDE: 1989-06-23

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 211**

INIS: 1986-05-12; ETDE: 1986-07-03

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 212**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 213**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 214**

INIS: 1986-05-12; ETDE: 1986-07-03

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ACTINIUM 215**

1982-06-09

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 216**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 217**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 218**

INIS: 1977-03-01; ETDE: 1976-12-15

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 219**

INIS: 1985-06-07; ETDE: 1985-05-31

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes

\*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 220**

INIS: 1976-07-06; ETDE: 1976-05-17

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 221**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 222**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ACTINIUM 223**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 224**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 225**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 226**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 227**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 years living radioisotopes

**ACTINIUM 227 TARGET**

INIS: 1975-10-23; ETDE: 1976-07-09

BT1 targets

**ACTINIUM 228**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 229**

\*BT1 actinide nuclei

- \*BT1 actinium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**ACTINIUM 230**

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ACTINIUM 231**

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ACTINIUM 232**

1978-01-16

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ACTINIUM 233**

INIS: 1983-09-05; ETDE: 1983-01-21

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ACTINIUM 234**

INIS: 1986-01-21; ETDE: 1986-02-21

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ACTINIUM 235**

2007-09-25

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ACTINIUM 236**

2007-09-25

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei

**actinium a**

USE polonium 215

**actinium additions**

2000-04-12

(Prior to August 1993 this was a valid ETDE descriptor.)

USE alloys

**actinium b**

USE lead 211

**ACTINIUM BROMIDES**

INIS: 1996-06-26; ETDE: 1975-10-28

(From June 1996 to September 2007

ACTINIUM COMPOUNDS + BROMIDES was used for this concept.)

- \*BT1 actinium compounds
- \*BT1 bromides

**actinium c**

USE bismuth 211

**actinium c/**

1983-02-03

USE polonium 211

**actinium c//**

USE thallium 207

**ACTINIUM CHLORIDES**

INIS: 1996-06-26; ETDE: 1975-10-28

(From June 1996 to February 2008

ACTINIUM COMPOUNDS + CHLORIDES

was used for this concept)

- \*BT1 actinium halides
- \*BT1 chlorides

**ACTINIUM COMPLEXES**

\*BT1 actinide complexes

**ACTINIUM COMPOUNDS**

1996-11-13

- BT1 actinide compounds
- NT1 actinium bromides
- NT1 actinium halides
- NT2 actinium chlorides
- NT2 actinium fluorides
- NT1 actinium hydroxides
- NT1 actinium oxides
- NT1 actinium sulfates

**actinium d**

USE lead 207

**ACTINIUM FLUORIDES**

INIS: 1996-06-26; ETDE: 1975-10-28

(From June 1996 to February 2008

ACTINIUM COMPOUNDS + FLUORIDES

was used for this concept.)

- \*BT1 actinium halides
- \*BT1 fluorides

**ACTINIUM HALIDES**

2008-02-07

- \*BT1 actinium compounds
- \*BT1 halides
- NT1 actinium chlorides
- NT1 actinium fluorides

**ACTINIUM HYDRIDES**

1997-01-28

(From November 1996 to November 2007

ACTINIUM COMPOUNDS + HYDRIDES

was used for this concept.)

- \*BT1 hydrides
- \*BT1 protactinium compounds

**ACTINIUM HYDROXIDES**

INIS: 1997-01-28; ETDE: 1977-11-10

(From November 1996 to November 2007

ACTINIUM COMPOUNDS +

HYDROXIDES was used for this concept.)

- \*BT1 actinium compounds
- \*BT1 hydroxides

**ACTINIUM IONS**

\*BT1 ions

**ACTINIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 actinium 206
- NT1 actinium 207
- NT1 actinium 208
- NT1 actinium 209
- NT1 actinium 210
- NT1 actinium 211
- NT1 actinium 212
- NT1 actinium 213
- NT1 actinium 214
- NT1 actinium 215
- NT1 actinium 216
- NT1 actinium 217
- NT1 actinium 218

NT1 actinium 219

NT1 actinium 220

NT1 actinium 221

NT1 actinium 222

NT1 actinium 223

NT1 actinium 224

NT1 actinium 225

NT1 actinium 226

NT1 actinium 227

NT1 actinium 228

NT1 actinium 229

NT1 actinium 230

NT1 actinium 231

NT1 actinium 232

NT1 actinium 233

NT1 actinium 234

NT1 actinium 235

NT1 actinium 236

**actinium k**

USE francium 223

**ACTINIUM OXIDES**

1997-01-28

(From November 1996 to November 2007

ACTINIUM COMPOUNDS + OXIDES was

used for this concept.)

- \*BT1 actinium compounds
- \*BT1 oxides

**ACTINIUM SULFATES**

1996-06-26

(From June 1996 to November 2007

ACTINIUM COMPOUNDS + SULFATES

was used for this concept.)

- \*BT1 actinium compounds
- \*BT1 sulfates

**actinium x**

USE radium 223

**ACTINOMYCES**

1997-06-19

\*BT1 bacteria

NT1 frankia

RT nocardia

**ACTINOMYCIN**

\*BT1 antibiotics

\*BT1 antimetabolic drugs

\*BT1 antineoplastic drugs

**ACTION INTEGRAL**

INIS: 1986-07-09; ETDE: 1986-04-11

An integral associated with the trajectory of a system in configuration space, equal to the sum of the integrals of the generalized momenta of the system over their canonically conjugate coordinates.

BT1 integrals

RT field theories

RT mechanics

**ACTIVATED CARBON**

BT1 adsorbents

\*BT1 carbon

RT adsorption

RT charcoal

**ACTIVATED SLUDGE PROCESS**

INIS: 1994-09-29; ETDE: 1976-03-11

\*BT1 waste processing

RT petroleum refineries

RT sewage

**activation (chemical)**

USE chemical activation

**activation (radio)**

USE radioactivation

**ACTIVATION ANALYSIS**

1999-05-04

(Before the introduction of the specific narrower terms in November 1978, all types of activation analysis were indexed to the above descriptor.)

UF analysis (activation)

UF radiochemical activation analysis

\*BT1 nondestructive analysis

NT1 charged-particle activation analysis

NT1 neutron activation analysis

NT1 photon activation analysis

RT crime detection

RT impurities

RT neutron activation analyzers

RT nuclear reaction analysis

RT qualitative chemical analysis

RT quantitative chemical analysis

RT radioactivation

RT substoichiometry

**ACTIVATION DETECTORS**

\*BT1 neutron detectors

RT fission foil detectors

RT moderating detectors

RT radiator counters

RT threshold detectors

**ACTIVATION ENERGY**

UF activation heat

UF reactivity (chemical)

BT1 energy

RT arrhenius equation

RT chemical activation

RT chemical reaction kinetics

RT excitation

RT reaction kinetics

**activation heat**

USE activation energy

**activity (optical)**

INIS: 1977-06-13; ETDE: 2002-06-06

USE optical activity

**activity coefficient**

USE reaction kinetics

USE thermodynamic activity

**ACTIVITY LEVELS**

1985-12-11

May be used in any field.

(Prior to 1986 RADIOACTIVITY was used for this concept if appropriate.)

RT activity meters

RT enzyme activity

RT maximum permissible activity

RT radioactivity

RT solar activity

**ACTIVITY METERS**

\*BT1 meters

RT activity levels

RT counting techniques

**activity transport**

INIS: 1976-05-07; ETDE: 1976-08-24

In reactor systems.

USE radioactivity transport

**ACTUATORS**

1975-08-22

Mechanism to activate process control equipment, e.g., valves.

RT control equipment

RT servomechanisms

RT solenoids

**ACUPUNCTURE**

2003-06-05

BT1 medicine

**ACUTE EXPOSURE**

INIS: 1985-12-10; ETDE: 1978-06-14

For acute exposure to radiation, use ACUTE IRRADIATION.

NT1 acute irradiation

RT biological effects

RT dose-response relationships

RT environmental exposure

RT toxicity

**ACUTE IRRADIATION**

BT1 acute exposure

BT1 irradiation

RT latency period

RT radiation syndrome

**ACYL RADICALS**

1996-07-16

(Prior to August 1996 BUTYRYL

RADICALS was a valid ETDE descriptor.)

UF butyryl radicals

BT1 radicals

NT1 acetyl radicals

NT1 formyl radicals

**ACYLATION**

BT1 chemical reactions

NT1 acetylation

NT1 benzylation

**ADA**

INIS: 2000-04-12; ETDE: 1985-12-11

BT1 programming languages

**adamantane**

(Prior to February 1997 this was a valid ETDE descriptor.)

USE cycloalkanes

**adamellite**

INIS: 1984-11-30; ETDE: 1984-06-29

USE quartz monzonite

**adapted swimming pool reactor****austria**

1993-11-03

USE astra reactor

**adaptive intrusion data systems**

INIS: 2000-04-12; ETDE: 1982-09-10

SEE intrusion detection systems

**ADAPTIVE SYSTEMS**

2004-05-28

Systems that have the ability to learn, change their state, or otherwise react to stimuli or changes in their environment.

UF self-learning systems

\*BT1 computerized control systems

RT algorithms

**added mass effect**

INIS: 1976-03-17; ETDE: 1976-08-24

USE hydrodynamic mass effect

**ADDITIVES**

SF chemicals

NT1 demulsifiers

NT1 emulsifiers

NT2 detergents

NT3 pluronics

NT1 food additives

NT1 fuel additives

RT catalysts

RT preservatives

RT solutes

RT xenobiotics

**ADDUCTS**

Chemical compounds with weak bonds, e.g. occlusive or Vander Waals bonds.

NT1 dna adducts

RT chemical bonds

RT clathrates

RT complexes

**ADENINES**

UF 6-aminopurine

\*BT1 amines

\*BT1 antimetabolites

\*BT1 purines

NT1 kinetin

RT adenosine

RT adenylic acid

RT adp

RT amp

RT atp

RT vitamin b group

**adenocarcinomas**

USE carcinomas

**ADENOMAS**

\*BT1 carcinomas

RT glands

**ADENOSINE**

\*BT1 nucleosides

RT adenines

RT atp

**adenosine diphosphate**

USE adp

**adenosine monophosphate**

USE amp

**adenosine triphosphatase**

USE atp-ase

**adenosine triphosphate**

USE atp

**ADENOVIRUS**

\*BT1 oncogenic viruses

**ADENYLIC ACID**

1983-02-03

\*BT1 nucleotides

RT adenines

**adgezator**

USE electron-ring accelerators

**ADHESION**

RT adhesives

RT agglomeration

RT bonding

RT coalescence

RT surface properties

**ADHESIVES**

RT adhesion

RT binders

**ADIABATIC APPROXIMATION**

\*BT1 approximations

RT born-oppenheimer approximation

RT diabatic approximation

RT quantum mechanics

RT scattering

**ADIABATIC COMPRESSION HEATING**

\*BT1 plasma heating

**ADIABATIC DEMAGNETIZATION**

UF demagnetization (adiabatic)

UF magnetic cooling

BT1 demagnetization

RT cryogenics

RT magnetism

**ADIABATIC INVARIANCE**

RT invariance principles

RT quantum mechanics

**ADIABATIC PROCESSES***UF* processes (adiabatic)**NT1** adiabatic surface ionization*RT* isentropic processes*RT* isothermal processes*RT* thermodynamics**adiabatic reformer processes***INIS: 2000-04-12; ETDE: 1981-03-17*

USE autothermal reformer processes

**ADIABATIC SURFACE IONIZATION***ETDE: 1978-03-08**UF* asi**BT1** adiabatic processes**\*BT1** surface ionization**adiabatic toroidal compressors**

USE atc devices

**ADIP PROCESS***2000-04-12**Process for the substantial removal of hydrogen sulfide and the partial removal of incidental COS, carbon dioxide, and mercaptans.***\*BT1** desulfurization**ADIPIC ACID****\*BT1** dicarboxylic acids**ADIPOSE TISSUE****\*BT1** connective tissue*RT* fat cells*RT* fats*RT* leptin**ADIRONDACK MOUNTAINS***INIS: 1992-06-30; ETDE: 1983-10-11***\*BT1** appalachian mountains*RT* new york**ADITYA TOKAMAK***1991-02-11***\*BT1** tokamak devices**ADJOINT DIFFERENCE METHOD****BT1** calculation methods*RT* neutron transport theory*RT* one-dimensional calculations*RT* three-dimensional calculations*RT* two-dimensional calculations**ADJOINT FLUX****\*BT1** neutron flux*RT* neutron importance function*RT* perturbation theory**adjustments***INIS: 2000-04-12; ETDE: 1979-12-10**(Prior to February 1997, this was a valid ETDE descriptor.)*

SEE administrative procedures

**adl process***INIS: 2000-04-12; ETDE: 1978-03-09**Arthur D. Little coal liquefaction process in which some hydrogen is added by the donor solvent and carbon is removed as coke.**Process takes place at 80-100 psi and is similar to certain established petroleum refinery processes.**(Prior to July 1993, this was a valid ETDE descriptor.)*

USE coal liquefaction

**administration**

USE management

**ADMINISTRATIVE PROCEDURES***INIS: 1996-02-12; ETDE: 1979-12-10**(Adjustments, decisions and orders, disbursements, interventions, investigations, and notices have been valid descriptors.)**UF* interventions*SF* adjustments*SF* decisions and orders*SF* disbursements*SF* investigations*SF* notices**NT1** alternative work schedules**NT1** appeals**NT1** exceptions**NT1** license applications**NT1** licensing procedures**NT1** notification procedures**NT1** orders**NT1** prohibition orders**NT1** proposed remedial orders**NT1** sanctions*RT* agreements*RT* compliance*RT* debt collection*RT* enforcement*RT* hearings*RT* implementation*RT* laws*RT* leasing*RT* legal aspects*RT* regulations*RT* reporting requirements*RT* time delay*RT* violations**ADOBE***INIS: 2000-04-12; ETDE: 1979-02-27***\*BT1** building materials*RT* bricks*RT* clays**ADOLESCENTS***1999-01-20**Not limited to man, but referring to the stage between puberty and maturity.***BT1** age groups*RT* adults*RT* children*RT* education*RT* juveniles*RT* life cycle*RT* man**ADONE****BT1** storage rings**ADP***UF* adenosine diphosphate**\*BT1** nucleotides*RT* adenines**ADRENAL GLANDS***UF* cortex (adrenal)**\*BT1** endocrine glands*RT* acth*RT* adrenal hormones*RT* adrenalectomy*RT* androgens**ADRENAL HORMONES****BT1** hormones**NT1** adrenaline**NT1** corticosteroids**NT2** glucocorticoids**NT3** corticosterone**NT3** cortisone**NT3** dexamethasone**NT3** hydrocortisone**NT3** prednisolone**NT3** prednisone**NT2** mineralocorticoids**NT3** aldosterone**NT1** noradrenaline*RT* adrenal glands*RT* adrenalectomy*RT* androgens*RT* steroid hormones**ADRENALECTOMY****\*BT1** surgery*RT* adrenal glands*RT* adrenal hormones*RT* response modifying factors**ADRENALINE***UF* epinephrine**\*BT1** adrenal hormones**\*BT1** cardiotonics**\*BT1** neuroregulators**\*BT1** sympathomimetics**adrenergics***INIS: 2000-04-12; ETDE: 1981-05-18*

USE sympathomimetics

**adrenergics-blocking agents***INIS: 2000-04-12; ETDE: 1981-04-20*

USE sympatholytics

**adrenocorticotrophic hormone**

USE acth

**adriamycin***INIS: 1980-11-07; ETDE: 1980-04-14*

USE doxorubicin

**ADRIATIC SEA***INIS: 1992-05-08; ETDE: 1975-10-01***\*BT1** mediterranean sea*RT* albania*RT* italy**ADSORBENTS****NT1** activated carbon**NT1** bioadsorbents**NT1** charcoal**NT1** molecular sieves**NT1** silica gel*RT* adsorption*RT* chemisorption*RT* diatomaceous earth*RT* sorbent injection processes*RT* sorbent recovery systems*RT* sorptive properties**ADSORPTION****BT1** sorption*RT* activated carbon*RT* adsorbents*RT* adsorption heat*RT* adsorption isotherms*RT* bioadsorbents*RT* chemisorption*RT* deposition*RT* desorption*RT* gettering*RT* hygroscopicity*RT* impregnation*RT* molecular sieves*RT* separation processes*RT* silica gel*RT* sorptive properties*RT* surface properties*RT* surfaces*RT* van der waals forces**ADSORPTION HEAT***UF* heat of adsorption**\*BT1** enthalpy*RT* adsorption**ADSORPTION ISOTHERMS****BT1** isotherms

*RT* adsorption

**adsorptive properties**  
1992-02-23  
*USE* sorptive properties

**adtt**  
2000-03-07  
*USE* accelerator driven transmutation

**ADU**  
*ETDE*: 1976-01-07  
*UF* ammonium diuranate  
\*BT1 ammonium uranates

**ADULTS**  
1999-01-20  
BT1 age groups  
NT1 aged adults  
NT2 elderly people  
*RT* adolescents  
*RT* life cycle  
*RT* man  
*RT* men  
*RT* metamorphosis  
*RT* populations  
*RT* reference man  
*RT* reproduction  
*RT* women

**ADVANCE MINING**  
*INIS*: 2000-04-12; *ETDE*: 1983-03-23  
\*BT1 underground mining  
*RT* coal mining

**advanced automotive propulsion systems**  
*INIS*: 2000-04-12; *ETDE*: 1979-05-02  
*USE* aaps

**ADVANCED COMPONENTS TEST FACILITY**  
*INIS*: 2000-04-12; *ETDE*: 1981-03-17  
*The DOE solar thermal test facility operated by Georgia Tech.*  
*UF* actf  
BT1 test facilities  
*RT* central receivers  
*RT* tower focus collectors  
*RT* tower focus power plants

**advanced gas cooled graphite moderated reactor**  
1993-11-03  
*USE* agr type reactors

**ADVANCED LIGHT SOURCE**  
*INIS*: 1992-08-17; *ETDE*: 1992-06-11  
*Lawrence Berkeley Laboratory, California, USA.*  
*UF* als storage ring  
BT1 storage rings  
\*BT1 synchrotron radiation sources  
*RT* accelerator facilities  
*RT* light sources  
*RT* x-ray sources

**ADVANCED PHOTON SOURCE**  
*INIS*: 1992-08-17; *ETDE*: 1992-06-11  
*Argonne National Laboratory, Illinois, USA.*  
*UF* aps storage ring  
BT1 storage rings  
\*BT1 synchrotron radiation sources  
*RT* accelerator facilities  
*RT* light sources  
*RT* x-ray sources

**advanced reactivity measurement facility-1**  
1993-11-03  
*USE* armf-1 reactor

**advanced test accelerator**  
*INIS*: 2000-04-12; *ETDE*: 1988-01-21  
*SEE* llnl advanced test accelerator

**advanced test idaho reactor**  
2000-04-12  
*USE* atr reactor

**advanced test reactor critical facility**  
1993-11-03  
*USE* atrc reactor

**advanced thermal reactor fugen**  
2000-04-12  
*USE* jatr reactor

**advanced toroidal facility torsatron**  
*INIS*: 1993-11-03; *ETDE*: 2002-06-06  
*USE* atf torsatron

**ADVECTION**  
*INIS*: 1976-02-24; *ETDE*: 1976-04-19  
*The horizontal mass transport of a fluid as a result of current or pressure conditions.*  
BT1 mass transfer  
*RT* convection  
*RT* diffusion  
*RT* fluid flow  
*RT* osmosis  
*RT* water currents  
*RT* wind

**ADVENTITIOUS BUD TECHNIQUE**  
*RT* mutants  
*RT* mutations  
*RT* plant breeding  
*RT* vegetative propagation

**adversaries**  
*INIS*: 2000-04-03; *ETDE*: 1976-07-07  
(Prior to February 1997 this was a valid *ETDE* descriptor.)  
*SEE* interest groups  
*SEE* intervenors

**ADVERTISING**  
*INIS*: 1993-03-23; *ETDE*: 1979-03-27  
*RT* communications  
*RT* consumer products  
*RT* marketing  
*RT* product labeling  
*RT* public relations

**ADVISORY COMMITTEES**  
*INIS*: 1996-08-05; *ETDE*: 1979-11-23  
*UF* energy research advisory board  
*RT* decision making  
*RT* planning

**aec-nim**  
*ETDE*: 2002-06-06  
*USE* nuclear instrument modules

**aecb canada**  
*INIS*: 1977-03-14; *ETDE*: 2002-06-06  
*USE* canadian aecb

**aegl**  
1977-09-06  
(Prior to July 1985, this was a valid *ETDE* descriptor.)  
*USE* atomic energy of canada ltd

**aegl radiochemical slowpoke reactor**  
*INIS*: 1979-12-20; *ETDE*: 1980-01-24  
*USE* slowpoke-ottawa reactor

**aedes**  
*USE* mosquitoes

**AEG-PR-10 REACTOR**  
*KWU, Karlstein, Bayern, Federal Republic of Germany.*  
*UF* aeg pruefreaktor pr-10  
*UF* grosswelzheim pr-10 reactor  
*UF* pr-10 aeg pruefreaktor  
\*BT1 argonaut type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**aeg pruefreaktor pr-10**  
*USE* aeg-pr-10 reactor

**AEGEAN SEA**  
*INIS*: 1992-08-10; *ETDE*: 1977-06-02  
\*BT1 mediterranean sea

**aepr**  
*USE* acoustic esr

**AERATION**  
*INIS*: 1980-09-12; *ETDE*: 1976-09-14  
*RT* air  
*RT* bubbles  
*RT* deaerators  
*RT* gases  
*RT* mixing

**AERE**  
*UF* atomic energy research establishment  
\*BT1 ukaea

**AERIAL MONITORING**  
1999-01-20  
*For monitoring FROM the air, e.g. by airplanes or balloons; not for monitoring OF the air.*  
*UF* aerial surveying (radiation monitoring)  
*UF* aircraft surveys  
BT1 monitoring  
*RT* accidents  
*RT* aerial prospecting  
*RT* aerial surveying  
*RT* aerosols  
*RT* air  
*RT* aircraft  
*RT* fallout  
*RT* geophysical surveys  
*RT* magnetic surveys  
*RT* radiation monitoring  
*RT* radioactive clouds  
*RT* remote sensing

**AERIAL PROSPECTING**  
BT1 prospecting  
*RT* aerial monitoring  
*RT* aerial surveying  
*RT* exploration  
*RT* magnetic surveys  
*RT* radiometric surveys  
*RT* remote sensing  
*RT* seasat satellites

**AERIAL SURVEYING**  
*INIS*: 1985-12-10; *ETDE*: 1977-07-23  
*For surveying from the air, e.g. by aircraft.*  
*RT* aerial monitoring  
*RT* aerial prospecting  
*RT* aircraft  
*RT* landsat satellites  
*RT* magnetic surveys  
*RT* remote sensing

**aerial surveying (radiation monitoring)**  
*INIS*: 1993-11-03; *ETDE*: 2002-06-06  
*USE* aerial monitoring

**AEROBACTER**  
\*BT1 bacteria



RT coliforms  
RT intestines  
RT soils

**AEROBIC CONDITIONS**

INIS: 1983-02-04; ETDE: 1975-11-28

RT aerobic digestion  
RT biodegradation  
RT decomposition  
RT oxygen enhancement ratio

**AEROBIC DIGESTION**

INIS: 1997-06-19; ETDE: 1975-10-28

BT1 bioconversion  
BT1 digestion  
RT aerobic conditions  
RT batch culture  
RT continuous culture  
RT microorganisms  
RT semibatch culture  
RT waste processing

**AERODYNAMIC HEATING**

INIS: 1994-09-08; ETDE: 1982-02-11

*The heating of a body produced by the passage of air or other gases over its surface.*

BT1 heating  
RT aerodynamics  
RT fluid flow  
RT fluid mechanics

**AERODYNAMICS**

\*BT1 fluid mechanics  
RT aerodynamic heating  
RT aircraft  
RT airfoils  
RT compressible flow  
RT gas flow  
RT mach number  
RT parachutes  
RT particle resuspension  
RT reentry  
RT subsonic flow  
RT supersonic flow  
RT transonic flow  
RT wind tunnels

**AEROJET-GENERAL NUCLEONICS****REACTORS**

1994-08-12

UF *agn reactor series*  
\*BT1 enriched uranium reactors  
\*BT1 research reactors  
\*BT1 solid homogeneous reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**AEROMONAS**

INIS: 1993-07-12; ETDE: 1979-07-18

\*BT1 bacteria

**AEROSOL GENERATORS**

UF *generators (aerosol)*  
RT aerosols  
RT nozzles

**AEROSOL MONITORING**

\*BT1 air pollution monitoring  
RT aerosols  
RT air pollution monitors  
RT air samplers  
RT cascade impactors  
RT radiation monitoring  
RT radioactive aerosols  
RT smoke detectors

**AEROSOL WASTES**

BT1 wastes  
NT1 fly ash  
RT aerosols  
RT air pollution  
RT waste disposal

**AEROSOLS**

(From April 1987 till February 1997 ARCTIC HAZE was also a valid ETDE descriptor.)

UF *fumes*  
\*BT1 sols  
NT1 radioactive aerosols  
NT1 smokes  
NT2 tobacco smokes  
RT acoustic agglomerators  
RT aerial monitoring  
RT aerosol generators  
RT aerosol monitoring  
RT aerosol wastes  
RT air  
RT air pollution  
RT air pollution monitoring  
RT atomization  
RT condensation nuclei  
RT diffusion chambers  
RT droplets  
RT dusts  
RT fallout  
RT filters  
RT flow visualization  
RT inhalation  
RT particle resuspension  
RT particle size  
RT particles  
RT particulates  
RT radioactive clouds  
RT respirators  
RT sedimentation  
RT smoke detectors  
RT total suspended particulates  
RT ventilation

**AEROSPACE INDUSTRY**

INIS: 1992-03-12; ETDE: 1977-07-23

BT1 industry  
RT aircraft  
RT space vehicles

**aerospace system test reactor**

2000-04-12

USE astr reactor

**aerowindows**

INIS: 2000-04-12; ETDE: 1984-08-20

USE air curtains

**aeschnyite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE oxide minerals  
USE thorium minerals

**aesr**

USE acoustic esr

**AESTHETICS**

INIS: 1983-06-30; ETDE: 1978-03-03

UF *esthetics*  
RT architecture  
RT environmental engineering  
RT environmental impacts  
RT human factors  
RT land reclamation  
RT landscaping  
RT ornamental plants  
RT pollution  
RT public opinion  
RT public relations  
RT recreational areas  
RT social impact  
RT socio-economic factors  
RT sociology  
RT urban areas  
RT water reclamation

**aestivation**

INIS: 2000-04-12; ETDE: 1978-12-20

*The state of torpidity or dormancy induced by heat and dryness of summer.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE hibernation

**aet (aminoethylthiopseudourea)**

ETDE: 2005-02-01

(Prior to January 2005 AET was a valid descriptor.)

USE beta-aminoethyl isothiouraea

**afars and issas**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to June 1994, this was a valid ETDE descriptor.)

USE djibouti

**AFFINITY**

UF *electron affinity*  
RT chemical properties  
RT chemical reactions  
RT electronegativity  
RT free energy

**affirmative action**

INIS: 2000-04-12; ETDE: 1980-09-22

*Positive action undertaken to overcome under representation of women and minority groups in employment and in post-secondary student bodies, as compared with the composition of the area population.*

(Prior to December 1991 this was a valid ETDE descriptor.)

USE us affirmative action program

**afri reactor**

2000-04-12

USE afri reactor

**AFGHAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**AFGHANISTAN**

BT1 asia

BT1 developing countries

**aflatoxin**

2000-04-12

(Prior to October 1990 this was a valid ETDE descriptor.)

USE aflatoxins

**AFLATOXINS**

INIS: 1983-02-03; ETDE: 1984-01-27

UF *aflatoxin*

\*BT1 mycotoxins

RT aspergillus

RT toxicity

**afm**

INIS: 2000-04-12; ETDE: 1999-09-09

USE atomic force microscopy

**afr storage**

INIS: 1980-04-02; ETDE: 1979-05-09

USE away-from-reactor storage

**AFRICA**

1997-01-06

NT1 algeria

NT1 angola

NT1 benin

NT1 botswana

NT1 burkina faso

NT1 burundi

NT1 cameroon

NT1 central african republic

NT1 chad

**NT1** congo peoples republic  
**NT2** brazzaville  
**NT1** cote d'ivoire  
**NT1** democratic republic of the congo  
**NT2** kinshasa  
**NT1** djibouti  
**NT1** egyptian arab republic  
**NT1** eritrea  
**NT1** ethiopia  
**NT1** gabon  
**NT1** gambia  
**NT1** ghana  
**NT1** guinea  
**NT1** kenya  
**NT1** lesotho  
**NT1** liberia  
**NT1** libyan arab jamahiriya  
**NT1** madagascar  
**NT2** malagasy republic  
**NT1** malawi  
**NT1** mali  
**NT1** mauritania  
**NT1** morocco  
**NT1** mozambique  
**NT1** namibia  
**NT1** niger  
**NT1** nigeria  
**NT1** republic of seychelles  
**NT1** rwanda  
**NT1** senegal  
**NT1** sierra leone  
**NT1** somalia  
**NT1** south africa  
**NT2** transvaal  
**NT1** sudan  
**NT1** swaziland  
**NT1** togo  
**NT1** tunisia  
**NT1** uganda  
**NT1** united republic of tanzania  
**NT1** zambia  
**NT1** zimbabwe  
**NT2** southern rhodesia  
**RT** arab countries

**AFRRI REACTOR**

1989-10-24

Armed Forces Radiobiology Research  
Institute, Bethesda, Maryland, USA.

**UF** affri reactor  
**UF** defense atomic support agency triga-  
mk-f  
**UF** triga-f-dasa reactor  
**\*BT1** isotope production reactors  
**\*BT1** research reactors  
**\*BT1** thermal reactors  
**\*BT1** training reactors  
**\*BT1** triga type reactors

**AFSR REACTOR**

ANL/INEEL, Idaho, USA.

**UF** argonne fast source reactor  
**UF** fast source reactor aec  
**\*BT1** air cooled reactors  
**\*BT1** enriched uranium reactors  
**\*BT1** fast reactors  
**\*BT1** research reactors

**AFTER-HEAT**

Heat derived from residual radioactivity after  
a reactor has been shut down.

**SF** decay heat  
**RT** after-heat removal  
**RT** away-from-reactor storage  
**RT** fuel cooling time  
**RT** reactor shutdown  
**RT** residual power  
**RT** spent fuel storage

**AFTER-HEAT REMOVAL**

**UF** decay heat removal  
**UF** pahr  
**UF** removal (after-heat)  
**UF** residual-heat removal  
**UF** rhr  
**BT1** removal  
**RT** after-heat  
**RT** rhr systems

**AFTERBURNERS**

INIS: 2000-04-12; ETDE: 1975-11-11

Air pollution control devices for recombustion  
of gaseous effluents, using a flame, spark  
ignition, or some other system to ignite the  
gases.

**UF** automobile exhaust reactors  
**UF** vapor incinerators  
**\*BT1** pollution control equipment  
**RT** air pollution control  
**RT** automobiles  
**RT** combustion  
**RT** exhaust gases  
**RT** exhaust systems

**AFTERGLOW**

**RT** electric discharges  
**RT** phosphorescence

**AFTERLOADING**

INIS: 1976-08-17; ETDE: 1976-11-01

Method in radiotherapy whereby empty  
applicators are first positioned and the  
radiation source inserted automatically after  
the personnel has withdrawn.

**\*BT1** radiotherapy  
**RT** internal irradiation  
**RT** irradiation procedures  
**RT** radiation source implants

**AFTERSHOCKS**

INIS: 2000-04-12; ETDE: 1978-06-14

Earthquakes which follow a larger earthquake  
and originate at or near the focus of the larger  
earthquake.

**RT** earthquakes  
**RT** foreshocks  
**RT** microearthquakes

**AFUDC**

INIS: 2000-04-12; ETDE: 1978-11-14

**UF** allowance for funds used during  
construction  
**RT** accounting  
**RT** construction  
**RT** cwip  
**RT** public utilities  
**RT** regulations

**AGAR**

**\*BT1** colloids  
**\*BT1** polysaccharides

**AGATA REACTOR**

Institute of Nuclear Research, Swierk, Poland.

**UF** swierk agata reactor  
**\*BT1** beryllium moderated reactors  
**\*BT1** pool type reactors  
**\*BT1** research reactors  
**\*BT1** zero power reactors

**AGE DEPENDENCE**

**RT** growth  
**RT** life span  
**RT** menopause  
**RT** ripening

**AGE ESTIMATION**

**UF** dating  
**UF** geochronology  
**NT1** isotope dating  
**RT** archaeology

**RT** cultural objects  
**RT** fission tracks  
**RT** geologic ages  
**RT** paleontology

**AGE GROUPS**

1999-01-20

**NT1** adolescents  
**NT1** adults  
**NT2** aged adults  
**NT3** elderly people  
**NT1** children  
**NT2** infants  
**RT** embryos  
**RT** fetuses  
**RT** juveniles  
**RT** larvae  
**RT** life cycle  
**RT** man  
**RT** neonates  
**RT** populations  
**RT** pupae

**AGE HARDENING**

**BT1** hardening  
**RT** aging  
**RT** precipitation hardening

**aged**

INIS: 2000-04-12; ETDE: 1978-02-14

USE elderly people

**AGED ADULTS**

INIS: 1999-01-20; ETDE: 1983-03-07

**\*BT1** adults  
**NT1** elderly people  
**RT** life cycle  
**RT** man

**agedoite**

USE asparagine

**agencia brasil-argentina contabil  
controla mater nuclear**

INIS: 1999-06-22; ETDE: 2002-06-06

USE abacc

**agesta-r3 reactor**

USE agesta reactor

**AGESTA REACTOR**

Agesta, Stockholm, Sweden.

**UF** agesta-r3 reactor  
**UF** r-3/adam reactor  
**\*BT1** natural uranium reactors  
**\*BT1** phwr type reactors  
**\*BT1** power reactors  
**\*BT1** process heat reactors  
**\*BT1** thermal reactors

**AGGLOMERATING ASH PROCESS**

1992-10-16

Process utilizing self-agglomerating fluidized-  
bed coal burner for producing synthesis gas  
by steam gasification of coal.

**UF** agglomerating burner gasification  
process  
**\*BT1** coal gasification

**agglomerating burner gasification  
process**

INIS: 2000-04-12; ETDE: 1976-09-14

USE agglomerating ash process

**AGGLOMERATION**

1985-12-10

**UF** aggregation  
**RT** adhesion  
**RT** briquetting  
**RT** caking  
**RT** coalescence  
**RT** compacting

RT crystallization  
 RT granulation  
 RT particle size  
 RT pelletizing  
 RT precipitation  
 RT sintering

**agglutination**

USE antigen-antibody reactions

**AGGLUTININS**

1999-01-21

BT1 antibodies  
 NT1 hemagglutinins  
 NT2 concanavalin a  
 NT2 phytohemagglutinin

**aggregation**

INIS: 1985-12-10; ETDE: 1978-04-27

USE agglomeration

**AGING**

For biological aging use LIFE CYCLE or LIFE SPAN.

NT1 quench aging  
 NT1 strain aging  
 RT age hardening  
 RT heat treatments  
 RT weathering

**agip nucleare**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE italian organizations

**agn reactor series**

INIS: 1980-04-02; ETDE: 1980-05-06

USE aerjet-general nucleonics reactors

**agr reactor (windscale)**

USE wagr reactor

**AGR TYPE REACTORS**

UF advanced gas cooled graphite moderated reactor

\*BT1 enriched uranium reactors  
 \*BT1 gcr type reactors  
 NT1 connah quay-b reactor  
 NT1 dungeness-b reactor  
 NT1 hartlepool reactor  
 NT1 heysham-a reactor  
 NT1 heysham-b reactor  
 NT1 hinkley point-b reactor  
 NT1 hunterston-b reactor  
 NT1 torness reactor  
 NT1 wagr reactor  
 RT carbon dioxide cooled reactors  
 RT power reactors

**AGREEMENTS**

UF conventions

NT1 indemnification agreements  
 NT1 international agreements  
 NT2 atomic energy agreements  
 NT2 bcoclmcm  
 NT2 bcolons  
 NT2 bcstpc  
 NT2 bilateral agreements  
 NT2 canare  
 NT2 cenna  
 NT2 cppnm  
 NT2 csnd  
 NT2 iaea agreements  
 NT2 international convention on nuclear safety  
 NT2 lcpmpdpw  
 NT2 multilateral agreements  
 NT3 kyoto protocol  
 NT3 rio declaration  
 NT2 pcotpl  
 NT2 solas convention

NT2 vcoclnd

RT administrative procedures  
 RT contracts  
 RT cooperation  
 RT delivery  
 RT implementation  
 RT laws  
 RT leasing  
 RT negotiation  
 RT recommendations  
 RT regulations  
 RT third-party use

**agricultural cooperatives**

INIS: 2000-04-12; ETDE: 1993-07-09

USE agriculture  
 USE cooperatives

**agricultural information system**

USE agris

**agricultural residues**

INIS: 1991-12-11; ETDE: 1980-06-06

USE agricultural wastes

**AGRICULTURAL WASTES**

INIS: 1991-12-11; ETDE: 1975-10-01

UF agricultural residues  
 UF corn stover  
 UF stover  
 \*BT1 organic wastes  
 NT1 bagasse  
 NT1 manures  
 RT agriculture  
 RT biological wastes  
 RT straw

**AGRICULTURE**

UF agricultural cooperatives  
 NT1 horticulture  
 RT agricultural wastes  
 RT agris  
 RT animal breeding  
 RT biomass plantations  
 RT crops  
 RT cultivation  
 RT cultivation techniques  
 RT domestic animals  
 RT drought resistance  
 RT ecosystems  
 RT fao  
 RT farms  
 RT fertilizer industry  
 RT fertilizers  
 RT food  
 RT gardening  
 RT grain disinfection  
 RT greenhouses  
 RT harvesting  
 RT hydroponic culture  
 RT irrigation  
 RT pest control  
 RT pesticides  
 RT plants  
 RT short rotation cultivation  
 RT silviculture  
 RT soil chemistry  
 RT soil conservation  
 RT soils  
 RT sterile insect release  
 RT sterile male technique

**agrini event**

INIS: 2000-04-12; ETDE: 1986-01-14  
 (Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions  
 USE underground explosions

**AGRIS**

UF agricultural information system

BT1 information systems  
 RT agriculture  
 RT fao

**aguirre-1 reactor**

1990-12-05

(Prior to December 1990, this was a valid descriptor.)

USE north coast-1 reactor

**AGUIRRE REACTOR**

INIS: 2000-04-12; ETDE: 1976-08-04

Puerto Rico Nuclear Center, Jobos Bay, Puerto Rico, USA. Relocated and renamed NORTH COAST-1 REACTOR.

\*BT1 pwr type reactors  
 RT north coast-1 reactor

**AHARONOV-BOHM EFFECT**

INIS: 1991-09-25; ETDE: 1991-12-05

RT electromagnetic fields  
 RT gauge invariance  
 RT magnetic flux  
 RT phase shift  
 RT quantum mechanics

**ahfr reactor**

2000-04-12

USE cp-6 reactor

**AHUACHAPAN GEOTHERMAL FIELD**

INIS: 1992-06-04; ETDE: 1977-01-28

BT1 geothermal fields  
 RT el salvador

**ai aqueous carbonate process**

INIS: 2000-04-12; ETDE: 1977-05-07

Process utilizing aqueous sodium carbonate solution to sorb sulfur dioxide from power plant flue gas. Unique design features use of a spray dryer as an sulfur dioxide scrubber producing a product suitable for regeneration and complete reduction of the sodium salts in a molten pool.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**AI-L-77 REACTOR**

Atomics International/Rockwell International, Canoga Park, California, USA. Shut down in 1974.

UF atomics international l-77 reactor  
 UF l-77 atomics international reactor

\*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**aic-144 cyclotron**

INIS: 1982-07-22; ETDE: 1982-08-11

USE cracow aic-144 cyclotron

**AIDS**

INIS: 1986-08-26; ETDE: 1986-03-04

Acquired Immuno-Deficiency Syndrome.

UF acquired immunodeficiency syndrome  
 \*BT1 immune system diseases  
 \*BT1 viral diseases  
 RT aids virus  
 RT epidemiology  
 RT immunity  
 RT leukocytes  
 RT pathogenesis

**AIDS VIRUS**

INIS: 1986-05-23; ETDE: 1986-11-14

Virus responsible for Acquired Immuno-Deficiency Syndrome.

- UF acquired immunodeficiency virus
- UF hiv
- UF htlv iii virus
- UF human immune deficiency virus
- UF lav virus
- \*BT1 viruses
- RT aids
- RT immune reactions
- RT immunity

**AIPFR REACTOR**

Atomics International Div., Rockwell International, Canoga Park, California, USA.

- UF atomics international prototype fast reactor
- \*BT1 fbr type reactors
- \*BT1 power reactors
- \*BT1 test reactors

**AIR**

- \*BT1 gases
- NT1 compressed air
- NT1 surface air
- RT aeration
- RT aerial monitoring
- RT aerosols
- RT air conditioning
- RT air curtains
- RT air flow
- RT air infiltration
- RT aircraft
- RT breath
- RT carbon dioxide fixation
- RT earth atmosphere
- RT environmental materials
- RT fallout
- RT fuel-air ratio
- RT inhalation
- RT nitrogen fixation
- RT radioactive clouds
- RT respiration
- RT respirators
- RT respiratory system
- RT troposphere
- RT ventilation
- RT wind

**AIR-BIOSPHERE INTERACTIONS**

INIS: 1992-03-18; ETDE: 1987-02-13

- RT air-water interactions
- RT environmental transport
- RT mass transfer
- RT mineral cycling

**AIR CLEANING**

- UF air purification
- BT1 cleaning
- RT air cleaning systems
- RT air conditioning
- RT air filters
- RT electrostatic precipitators
- RT pollution control equipment
- RT scrubbers
- RT ventilation

**AIR CLEANING SYSTEMS**

INIS: 1992-01-15; ETDE: 1975-08-19

- BT1 engineered safety systems
- RT air cleaning
- RT air conditioning
- RT air filters
- RT electrostatic precipitators
- RT off-gas systems
- RT pollution control equipment
- RT scrubbers
- RT ventilation

- RT ventilation systems

**AIR CONDITIONERS**

1993-07-29

- NT1 solar air conditioners
- NT2 solar-assisted heat pumps
- RT absorption refrigeration cycle
- RT air conditioning
- RT appliances
- RT coefficient of performance
- RT electric appliances
- RT humidity recovery
- RT refrigerating machinery
- RT space hvac systems
- RT vapor compression refrigeration cycle

**AIR CONDITIONING**

- UF space cooling
- NT1 geothermal air conditioning
- NT1 solar air conditioning
- RT air
- RT air cleaning
- RT air cleaning systems
- RT air conditioners
- RT air source heat pumps
- RT annual cycle energy system
- RT automotive accessories
- RT ceiling fans
- RT cooling
- RT cooling load
- RT degree days
- RT environmental engineering
- RT ground source heat pumps
- RT heating
- RT heating load
- RT humidity control
- RT radiative cooling
- RT refrigerating machinery
- RT temperature control
- RT thermal insulation
- RT ventilation
- RT ventilation systems
- RT water source heat pumps
- RT working conditions

**AIR COOLED REACTORS**

- \*BT1 gas cooled reactors
- NT1 afsr reactor
- NT1 bepo reactor
- NT1 bgrr reactor
- NT1 br-1 reactor
- NT1 g-1 reactor
- NT1 gleep reactor
- NT1 harmonie reactor
- NT1 hprr reactor
- NT1 kalpakkam pfr reactor
- NT1 masurca reactor
- NT1 sneak reactor
- NT1 stf reactor
- NT1 tory-2a reactor
- NT1 tory-2c reactor
- NT1 treat reactor
- NT1 windscale production reactors
- NT1 x-10 reactor
- NT1 xma-1 reactor
- NT1 zed-2 reactor

**AIR CURTAINS**

INIS: 1992-08-24; ETDE: 1979-05-02

Compressed gas flow across openings to serve as thermal barriers.

- UF aerowindows
- RT air
- RT air infiltration
- RT buildings
- RT curtains
- RT doors
- RT gas flow

**AIR CUSHION VEHICLES**

INIS: 2000-04-12; ETDE: 1977-08-09

- UF ground-effect machines
- UF hovercraft
- UF surface-effect machines
- BT1 vehicles

**AIR FILTERS**

- BT1 filters
- \*BT1 pollution control equipment
- RT air cleaning
- RT air cleaning systems
- RT air pollution monitors
- RT scrubbers

**AIR FLOW**

INIS: 1991-09-18; ETDE: 1981-01-09

- \*BT1 gas flow
- RT air
- RT air infiltration
- RT atmospheric circulation
- RT ventilation
- RT ventilation systems

**air-fuel ratio**

INIS: 1992-07-20; ETDE: 1976-07-07

- USE fuel-air ratio

**AIR HEATERS**

1999-01-22

(Until January 1999 this concept was indexed in INIS by AIR and HEATERS.)

- UF air preheaters
- BT1 heaters
- NT1 solar air heaters
- RT heat
- RT heating

**AIR INFILTRATION**

INIS: 1997-06-19; ETDE: 1979-02-23

Air flow into an enclosed space, e.g. a building.

- SF caulking
- RT air
- RT air curtains
- RT air flow
- RT airtightness
- RT buildings
- RT energy conservation
- RT gas flow
- RT weatherstripping

**AIR POLLUTION**

For nonradioactive pollution only; for radioactive pollution use CONTAMINATION.

- UF thermal pollution (air)
- BT1 pollution
- NT1 indoor air pollution
- RT acid rain
- RT aerosol wastes
- RT aerosols
- RT air pollution abatement
- RT air pollution control
- RT air pollution monitoring
- RT air quality
- RT aitken nuclei
- RT atmospheric chemistry
- RT clean air acts
- RT environmental exposure
- RT exhaust systems
- RT fly ash
- RT greenhouse gases
- RT long-range transport
- RT mobile pollutant sources
- RT particle resuspension
- RT particulates
- RT plumes
- RT point pollutant sources
- RT scrubbers
- RT smog
- RT soot

- RT stationary pollutant sources
- RT temperature inversions
- RT total suspended particulates
- RT washout

**AIR POLLUTION ABATEMENT**

INIS: 1991-08-07; ETDE: 1976-06-07

The prevention of formation of pollutants at the source.

- SF prevention of significant deterioration

SF psd

- BT1 pollution abatement
- RT air pollution
- RT air pollution control
- RT desulfurization
- RT low-emission vehicles
- RT oxyfuel combustion process
- RT particulates
- RT staged combustion

**AIR POLLUTION CONTROL**

INIS: 1991-08-07; ETDE: 1977-03-04

The removal or management of pollutants after they are formed by a source.

- SF hitachi zosen process

\*BT1 pollution control

NT1 carbon sequestration

- RT afterburners
- RT air pollution
- RT air pollution abatement
- RT baghouses
- RT catalytic combustors
- RT catalytic converters
- RT electrostatic precipitators
- RT exhaust recirculation systems
- RT pollution control equipment
- RT scrubbers
- RT selective catalytic reduction

**AIR POLLUTION MONITORING**

INIS: 1991-08-08; ETDE: 1985-03-12

- BT1 monitoring
- NT1 aerosol monitoring
- RT aerosols
- RT air pollution
- RT air pollution monitors
- RT particulates

**AIR POLLUTION MONITORS**

INIS: 1991-09-18; ETDE: 1976-07-07

- UF monitors (air pollution)

\*BT1 monitors

- RT aerosol monitoring
- RT air filters
- RT air pollution monitoring
- RT air samplers
- RT cascade impactors
- RT electrostatic precipitators

**air preheaters**

1999-01-22

- USE air heaters

**air purification**

- USE air cleaning

**AIR QUALITY**

INIS: 1991-08-07; ETDE: 1976-01-07

- BT1 environmental quality
- RT air pollution
- RT clean air acts

**AIR SAMPLERS**

\*BT1 samplers

- RT aerosol monitoring
- RT air pollution monitors
- RT cascade impactors
- RT radiation monitors

**AIR SOURCE HEAT PUMPS**

INIS: 2000-04-12; ETDE: 1979-07-24

- BT1 heat pumps
- RT air conditioning
- RT space heating

**AIR TRANSPORT**

INIS: 1976-12-08; ETDE: 1978-03-08

- BT1 transport
- NT1 supersonic transport
- RT aircraft

**air wall ionization chambers**

- USE bragg gray chambers

**AIR-WATER INTERACTIONS**

INIS: 1983-10-14; ETDE: 1980-08-12

- RT air-biosphere interactions
- RT carbon cycle
- RT environmental transport
- RT surface waters
- RT troposphere
- RT water waves

**airborne particles**

INIS: 1991-08-14; ETDE: 1981-09-08

(Prior to September 1981, this concept in ETDE was indexed to AEROSOLS and PARTICLES.)

- USE particulates

**airborne particulates**

1991-08-14

(Prior to September 1981, this concept in ETDE was indexed to AEROSOLS and PARTICLES.)

- USE particulates

**AIRCRAFT**

(AIRCRAFT COMPONENTS was a valid ETDE descriptor from August 1976 till February 1997; AIRSHIPS was a valid ETDE descriptor from January 1980 until March 1996.)

- UF aircraft components
- UF airships
- UF dirigibles
- UF lighter-than-air craft
- NT1 balloons
- NT1 helicopters
- NT1 kites
- NT1 space shuttles
- RT aerial monitoring
- RT aerial surveying
- RT aerodynamics
- RT aerospace industry
- RT air
- RT air transport
- RT airfoils
- RT airports
- RT flight testing
- RT navigation
- RT navigational instruments
- RT propulsion systems
- RT supersonic transport

**aircraft accidents**

- USE accidents

**aircraft components**

INIS: 2000-04-12; ETDE: 1976-08-24

Use a descriptor referring to the component and the descriptor below.

(Prior to February 1997 this was a valid ETDE descriptor.)

- USE aircraft

**aircraft fuels**

2000-04-12

- SEE gasoline
- SEE jet engine fuels

**AIRCRAFT PROPULSION REACTORS**

- \*BT1 propulsion reactors
- NT1 xma-1 reactor

**aircraft shield test reactor**

2000-04-12

- USE astr reactor

**aircraft surveys**

INIS: 2000-04-12; ETDE: 1993-07-29

- USE aerial monitoring

**AIRFOILS**

INIS: 1992-08-13; ETDE: 1975-08-19

- RT aerodynamics
- RT aircraft

**AIRGLOW**

- UF dayglow
- UF nightglow
- RT aurorae
- RT earth atmosphere
- RT night sky
- RT noctilucous clouds

**AIROX PROCESS**

INIS: 1980-07-24; ETDE: 1979-09-26

This method uses simple chemical oxidation and reduction reactions to simultaneously deacid and pulverize spent fuel, release the volatile fission products, and restore the fuel to the proper form for refabrication and recycle. This method is highly proliferation resistant.

- UF atomics international reduction oxidation dry reprocessing

\*BT1 reprocessing

**AIRPORTS**

INIS: 1992-03-11; ETDE: 1975-11-11

- RT aircraft
- RT transportation systems

**airships**

INIS: 2000-04-12; ETDE: 1980-01-15

Propelled and steerable vehicles, dependent on gases for flotation.

(Prior to March 1996, this was a valid ETDE descriptor.)

- USE aircraft

**AIRTIGHTNESS**

INIS: 1993-02-16; ETDE: 1979-02-23

- RT air infiltration
- RT buildings
- RT leaks
- RT space heating
- RT ventilation

**AIRY FUNCTIONS**

- BT1 functions
- RT differential equations

**AITKEN NUCLEI**

INIS: 2000-04-12; ETDE: 1981-01-30

Microscopic particles in the atmosphere associated with atmospheric electrical phenomena.

- RT air pollution
- RT atmospheric precipitations
- RT condensation nuclei

**ajman**

INIS: 1992-05-07; ETDE: 1976-08-05

- USE united arab emirates

**akm muehleberg reactor**

- USE muehleberg reactor

**akm reactor**

- USE muehleberg reactor

**AKR-1 REACTOR**

2003-09-16

Technical Univ., Dresden, Federal Republic of Germany.

- \*BT1 enriched uranium reactors
- \*BT1 organic moderated reactors
- \*BT1 solid homogeneous reactors
- \*BT1 thermal reactors
- \*BT1 training reactors
- \*BT1 zero power reactors

**akw1 rheinsberg reactor**

INIS: 1984-06-21; ETDE: 2002-06-06

USE rheinsberg akw1 reactor

**ALABAMA**

1997-06-19

- \*BT1 usa
- RT chattahoochee river
- RT chattanooga formation
- RT tennessee river
- RT tennessee valley region
- RT us gulf coast

**ALAMOSITE**

2000-04-12

- \*BT1 silicate minerals
- RT lead silicates

**ALANINE-ALPHA**

UF aminopropionic acid-alpha

- \*BT1 alanines
- NT1 alanine-l

**ALANINE-BETA**

UF aminopropionic acid-beta

- \*BT1 alanines
- RT pantothenic acid

**ALANINE-L**

UF l-alanine

- UF l-alanine-alpha
- \*BT1 alanine-alpha

**ALANINES**

- \*BT1 amino acids
- NT1 alanine-alpha
- NT2 alanine-l
- NT1 alanine-beta

**alap**

INIS: 2000-04-12; ETDE: 1979-11-23

As low as practicable.

SEE radiation protection

**ALARA**

INIS: 1981-02-27; ETDE: 1981-03-13

All exposures shall be kept As Low As Reasonably Achievable, economic and social factors being taken into account.

- UF as low as reasonably achievable
- RT icrp
- RT optimization
- RT radiation doses
- RT radiation hazards
- RT radiation protection
- RT risk assessment
- RT safety
- RT shielding
- RT working conditions

**alarm dosimeters**

USE radiation monitors

**ALARM SYSTEMS**

1999-01-25

- UF audible alarm
- UF warning systems
- NT1 intrusion detection systems
- NT1 motion detection systems
- RT fire detectors
- RT radiation monitoring

- RT radiation monitors
- RT reactor components
- RT safety engineering
- RT smoke detectors

**ALASKA**

UF alaska river

- \*BT1 usa
- RT alaskan north slope
- RT aleutian islands
- RT amchitka island area
- RT chukchi sea
- RT prudhoe bay
- RT yukon river

**ALASKA GAS PIPELINE**

INIS: 2000-04-12; ETDE: 1976-11-17

- BT1 pipelines
- RT natural gas

**ALASKA OIL PIPELINE**

INIS: 1992-06-04; ETDE: 1976-11-17

- UF transalaska pipeline
- BT1 pipelines
- RT alaskan north slope
- RT permafrost
- RT petroleum

**ALASKA POWER****ADMINISTRATION**

INIS: 1993-02-19; ETDE: 1980-03-29

- UF apa
- \*BT1 us doe
- RT electric power

**alaska river**

INIS: 2000-04-12; ETDE: 1981-05-18

- USE alaska
- USE rivers

**ALASKAN NORTH SLOPE**

INIS: 1992-06-04; ETDE: 1979-12-10

- RT alaska
- RT alaska oil pipeline
- RT permafrost

**alaskites**

INIS: 1984-11-30; ETDE: 1984-12-27

- USE aplites

**ALBANIA**

- BT1 developing countries
- \*BT1 eastern europe
- RT adriatic sea
- RT alps
- RT centrally planned economies

**ALBANIAN ORGANIZATIONS**

2004-03-31

- BT1 national organizations

**ALBEDO**

- RT illuminance
- RT neutron transport theory
- RT reflection

**ALBEDO-NEUTRON DOSEMETERS**

- \*BT1 dosimeters
- RT backscattering
- RT neutron dosimetry
- RT personnel monitoring

**ALBERTA**

- \*BT1 canada
- RT athabasca deposit
- RT athabasca lake
- RT cold lake deposit
- RT peace river
- RT peace river deposit
- RT wabasca deposit

**alberta university slowpoke reactor**

INIS: 1993-11-03; ETDE: 2002-06-06

USE slowpoke-alberta reactor

**albite**

INIS: 1984-04-04; ETDE: 1976-11-29

A sodium aluminum silicate mineral; feldspar used as glaze in ceramics.

(Prior to February 1997, this was a valid

ETDE descriptor.)

USE feldspars

**albumen**

USE albumins

**ALBUMINS**

- UF albumen
- UF hsa
- UF human serum albumin
- UF risa
- \*BT1 proteins
- NT1 luciferin
- RT albuminuria
- RT polyamides

**ALBUMINURIA**

RT albumins

**ALCATOR DEVICE**

UF massachusetts institute of technology alcator

\*BT1 tokamak devices

**ALCOHOL DEHYDROGENASE**

INIS: 1993-04-08; ETDE: 1986-04-11

\*BT1 hemiacetal dehydrogenases

**ALCOHOL FUEL CELLS**

1992-05-20

- \*BT1 fuel cells
- NT1 direct ethanol fuel cells
- NT1 direct methanol fuel cells

**ALCOHOL FUELS**

INIS: 1992-05-21; ETDE: 1978-11-14

For pure alcohols, alcohol-water mixtures, or alcohol with additives; for alcohol-gasoline mixtures use GASOHOL.

- \*BT1 liquid fuels
- \*BT1 synthetic fuels
- NT1 ethanol fuels
- NT1 methanol fuels
- RT alcohols
- RT automotive fuels
- RT gasohol

**alcoholates**

USE alkoxides

**ALCOHOLS**

1996-10-23

- UF alkylates
- UF amino alcohols
- UF batyl alcohol
- UF geraniol
- UF methyl-fuel
- UF octadecyl glyceryl ether-alpha
- \*BT1 hydroxy compounds
- NT1 2-methylpropanol
- NT1 benzhydrol
- NT1 benzyl alcohol
- NT1 butanols
- NT1 choline
- NT1 cyclohexanol
- NT1 decanols
- NT1 enols
- NT1 erythritol
- NT1 ethanol
- NT1 glycerol
- NT1 glycols
- NT2 butanediols
- NT2 cellosolves

**NT2** egta  
**NT2** pinacol  
**NT2** polyethylene glycols  
**NT3** carbowax  
**NT3** pluronics  
**NT1** hexanols  
**NT1** methanol  
**NT1** metronidazole  
**NT1** misonidazole  
**NT1** octanols  
**NT1** pentanols  
**NT1** propanols  
**NT1** pva  
*RT* alcohol fuels  
*RT* alkoxides  
*RT* gasohol

**ALDEHYDE-LYASES**

*INIS: 2000-04-12; ETDE: 1981-01-12*  
*Code number 4.1.2.*

\*BT1 carbon-carbon lyases

**ALDEHYDES**

*UF* aldehydo acids  
**BT1** organic compounds  
**NT1** acetaldehyde  
**NT1** acrolein  
**NT1** aldosterone  
**NT1** arabinose  
**NT1** benzaldehyde  
**NT1** chloral  
**NT1** deoxyribose  
**NT1** formaldehyde  
**NT1** furfural  
**NT1** galactose  
**NT1** galacturonic acid  
**NT1** glucose  
**NT1** glucuronic acid  
**NT1** glyoxal  
**NT1** glyoxylic acid  
**NT1** mannose  
**NT1** pyridoxal  
**NT1** ribose  
**NT1** xylose  
*RT* hydrazones  
*RT* imines  
*RT* lyases  
*RT* oximes  
*RT* semicarbazones

**aldehydo acids**

USE aldehydes  
 USE carboxylic acids

**ALDER-WINTER THEORY**

*2000-04-12*  
*RT* angular distribution

**aldermaston reactor merlin**

*2000-04-12*  
 USE merlin reactor

**aldolase**

*INIS: 2000-04-12; ETDE: 1981-01-30*  
*Use ALDOLASES for this concept.*  
 (From January 1981 to October 1990, this was a valid ETDE descriptor.)  
 USE aldolases

**ALDOLASES**

(From January 1981 to October 1990 this was an invalid ETDE descriptor and material was indexed to ALDOLASE.)

*UF* aldolase  
 \*BT1 carbon-carbon lyases

**ALDOSTERONE**

\*BT1 aldehydes  
 \*BT1 mineralocorticoids  
*RT* tubules

**ALDRIN**

*INIS: 1976-05-07; ETDE: 1976-08-04*  
 \*BT1 chlorinated aromatic hydrocarbons  
 \*BT1 insecticides

**ALEUTIAN ISLANDS**

**BT1** islands  
**NT1** amchitka island area  
*RT* alaska  
*RT* bering sea  
*RT* nuclear explosions  
*RT* pacific ocean

**ALFALFA**

\*BT1 leguminosae

**ALFVEN WAVES**

**BT1** hydromagnetic waves  
*RT* plasma waves

**ALGAE**

*1997-06-19*  
**BT1** plants  
**NT1** chlorophycota  
**NT2** acetabularia  
**NT2** chlamydomonas  
**NT2** chlorella  
**NT2** nitella  
**NT2** scenedesmus  
**NT1** chromophycota  
**NT2** diatoms  
**NT2** fucus  
**NT2** laminaria  
**NT1** lichens  
**NT1** rhodophycota  
**NT2** porphyra  
**NT1** ulva  
**NT1** unicellular algae  
**NT2** chlamydomonas  
**NT2** chlorella  
**NT2** euglena  
**NT2** scenedesmus  
*RT* aquatic organisms  
*RT* biological fouling  
*RT* eutrophication  
*RT* phycobilisomes  
*RT* phytoplankton

**ALGEBRA**

**BT1** mathematics  
*RT* graded lie groups  
*RT* quantum groups

**ALGEBRAIC CURRENTS**

*UF* currents (algebraic)  
**BT1** currents  
**NT1** axial-vector currents  
**NT1** charged currents  
**NT2** weak charged currents  
**NT1** neutral currents  
**NT2** weak neutral currents  
**NT1** second-class currents  
**NT1** vector currents  
*RT* current algebra  
*RT* current commutators  
*RT* current divergences

**ALGEBRAIC FIELD THEORY**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
*UF* haag-araki field theory  
 \*BT1 axiomatic field theory

**ALGERIA**

**BT1** africa  
**BT1** arab countries  
**BT1** developing countries  
*RT* oapec  
*RT* opec

**ALGERIAN ORGANIZATIONS**

*2004-03-31*  
**BT1** national organizations

**ALGINATES**

*RT* laminaria

**ALGINIC ACID**

\*BT1 colloids  
 \*BT1 polysaccharides  
*RT* carboxylic acids

**ALGOL**

**BT1** programming languages

**ALGORITHMS**

*1999-01-25*  
**BT1** mathematical logic  
*RT* adaptive systems  
*RT* calculation methods  
*RT* computer codes  
*RT* data-flow processing  
*RT* functions  
*RT* mathematical evolution  
*RT* mathematical solutions  
*RT* mathematics  
*RT* parallel processing  
*RT* vector processing

**ali**

*INIS: 1985-04-23; ETDE: 2002-06-06*  
 USE annual limit of intake

**ALICE**

\*BT1 magnetic mirrors

**ALICE CYCLOTRON**

*UF* orsay alice cyclotron  
 \*BT1 isochronous cyclotrons

**ALIGNED COUPLING SCHEME**

*UF* stretch model  
*RT* coupling  
*RT* deformed nuclei  
*RT* particle-hole model  
*RT* projection operators  
*RT* shell models  
*RT* slater method

**ALIGNMENT**

*Not for the concept covered by the descriptor*  
*NUCLEAR ALIGNMENT.*  
*RT* beam optics  
*RT* positioning

**ALIZARIN**

*UF* 1,2-dihydroxyanthraquinone  
*UF* anthraquinonic acid  
 \*BT1 anthraquinones  
**BT1** dyes  
 \*BT1 hydroxy compounds  
**BT1** reagents

**alkali gabbros**

*INIS: 2000-04-12; ETDE: 1980-08-12*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE plutonic rocks

**ALKALI METAL COMPLEXES**

*1996-07-18*  
 (Prior to March 1997 FRANCIIUM COMPLEXES was a valid ETDE descriptor.)  
**BT1** complexes  
**NT1** cesium complexes  
**NT1** francium complexes  
**NT1** lithium complexes  
**NT1** potassium complexes  
**NT1** rubidium complexes  
**NT1** sodium complexes

**ALKALI METAL COMPOUNDS**

**NT1** cesium compounds  
**NT2** cesium bromides  
**NT2** cesium carbides  
**NT2** cesium carbonates

NT2 cesium chlorides  
 NT2 cesium fluorides  
 NT2 cesium hydrides  
 NT2 cesium hydroxides  
 NT2 cesium iodides  
 NT2 cesium nitrates  
 NT2 cesium nitrides  
 NT2 cesium oxides  
 NT2 cesium perchlorates  
 NT2 cesium phosphates  
 NT2 cesium selenides  
 NT2 cesium silicates  
 NT2 cesium silicides  
 NT2 cesium sulfates  
 NT2 cesium sulfides  
 NT2 cesium tellurides  
 NT2 cesium tungstates  
 NT2 cesium uranates  
 NT1 francium compounds  
   NT2 francium halides  
   NT3 francium chlorides  
 NT1 lithium compounds  
   NT2 lithium arsenides  
   NT2 lithium borides  
   NT2 lithium carbides  
   NT2 lithium carbonates  
   NT2 lithium halides  
     NT3 lithium bromides  
     NT3 lithium chlorides  
     NT3 lithium fluorides  
     NT3 lithium iodides  
   NT2 lithium hydrides  
     NT3 lithium deuterides  
     NT3 lithium tritides  
   NT2 lithium hydroxides  
   NT2 lithium nitrates  
   NT2 lithium nitrides  
   NT2 lithium oxides  
   NT2 lithium perchlorates  
   NT2 lithium phosphates  
   NT2 lithium phosphides  
   NT2 lithium selenides  
   NT2 lithium silicates  
   NT2 lithium silicides  
   NT2 lithium sulfates  
   NT2 lithium sulfides  
   NT2 lithium tellurides  
   NT2 lithium titanates  
   NT2 lithium tungstates  
   NT2 lithium uranates  
 NT1 potassium compounds  
   NT2 potassium borides  
   NT2 potassium bromides  
   NT2 potassium carbides  
   NT2 potassium carbonates  
   NT2 potassium chlorides  
   NT2 potassium fluorides  
   NT2 potassium hydrides  
   NT2 potassium hydroxides  
   NT2 potassium iodides  
   NT2 potassium nitrates  
   NT2 potassium nitrides  
   NT2 potassium oxides  
   NT2 potassium perchlorates  
   NT2 potassium phosphates  
   NT2 potassium phosphides  
   NT2 potassium selenides  
   NT2 potassium silicates  
   NT2 potassium silicides  
   NT2 potassium sulfates  
   NT2 potassium sulfides  
   NT2 potassium tellurides  
   NT2 potassium tungstates  
   NT2 potassium uranates  
   NT2 potassium vanadates  
   NT2 rochelle salt  
 NT1 rubidium compounds  
   NT2 rubidium bromides  
   NT2 rubidium carbides

NT2 rubidium carbonates  
 NT2 rubidium chlorides  
 NT2 rubidium fluorides  
 NT2 rubidium hydrides  
 NT2 rubidium hydroxides  
 NT2 rubidium iodides  
 NT2 rubidium nitrates  
 NT2 rubidium oxides  
 NT2 rubidium perchlorates  
 NT2 rubidium phosphates  
 NT2 rubidium selenides  
 NT2 rubidium silicates  
 NT2 rubidium silicides  
 NT2 rubidium sulfates  
 NT2 rubidium sulfides  
 NT2 rubidium tellurides  
 NT2 rubidium tungstates  
 NT2 rubidium uranates  
 NT1 sodium compounds  
   NT2 borax  
   NT2 rochelle salt  
   NT2 sodium borides  
   NT2 sodium bromides  
   NT2 sodium carbides  
   NT2 sodium carbonates  
   NT2 sodium chlorides  
   NT2 sodium fluorides  
   NT2 sodium hydrides  
   NT2 sodium hydroxides  
   NT2 sodium iodides  
   NT2 sodium nitrates  
   NT2 sodium nitrides  
   NT2 sodium oxides  
     NT3 sodium tungsten bronze  
   NT2 sodium perchlorates  
   NT2 sodium phosphates  
   NT2 sodium phosphides  
   NT2 sodium selenides  
   NT2 sodium silicates  
   NT2 sodium silicides  
   NT2 sodium sulfates  
   NT2 sodium sulfides  
   NT2 sodium tellurides  
   NT2 sodium tungstates  
   NT2 sodium uranates  
   NT2 tiron

### alkali metal isotopes

INIS: 2000-04-12; ETDE: 1976-10-13

Use the descriptor below or one(s) for the specific alkali metal isotopes.

(Prior to February 1997, this was a valid ETDE descriptor.)

USE isotopes

### ALKALI METALS

\*BT1 metals

NT1 cesium  
 NT1 francium  
 NT1 lithium  
 NT1 potassium  
 NT1 rubidium  
 NT1 sodium

### ALKALINE EARTH ISOTOPES

INIS: 1999-02-01; ETDE: 1997-03-31

BT1 isotopes

NT1 barium isotopes

NT2 barium 114  
 NT2 barium 115  
 NT2 barium 116  
 NT2 barium 117  
 NT2 barium 118  
 NT2 barium 119  
 NT2 barium 120  
 NT2 barium 121  
 NT2 barium 122  
 NT2 barium 123  
 NT2 barium 124  
 NT2 barium 125

NT2 barium 126  
 NT2 barium 127  
 NT2 barium 128  
 NT2 barium 129  
 NT2 barium 130  
 NT2 barium 131  
 NT2 barium 132  
 NT2 barium 133  
 NT2 barium 134  
 NT2 barium 135  
 NT2 barium 136  
 NT2 barium 137  
 NT2 barium 138  
 NT2 barium 139  
 NT2 barium 140  
 NT2 barium 141  
 NT2 barium 142  
 NT2 barium 143  
 NT2 barium 144  
 NT2 barium 145  
 NT2 barium 146  
 NT2 barium 147  
 NT2 barium 148  
 NT2 barium 149  
 NT2 barium 150  
 NT2 barium 151  
 NT2 barium 152  
 NT2 barium 153  
 NT1 beryllium isotopes  
   NT2 beryllium 10  
   NT2 beryllium 11  
   NT2 beryllium 12  
   NT2 beryllium 13  
   NT2 beryllium 14  
   NT2 beryllium 15  
   NT2 beryllium 16  
   NT2 beryllium 5  
   NT2 beryllium 6  
   NT2 beryllium 7  
   NT2 beryllium 8  
   NT2 beryllium 9  
 NT1 calcium isotopes  
   NT2 calcium 34  
   NT2 calcium 35  
   NT2 calcium 36  
   NT2 calcium 37  
   NT2 calcium 38  
   NT2 calcium 39  
   NT2 calcium 40  
   NT2 calcium 41  
   NT2 calcium 42  
   NT2 calcium 43  
   NT2 calcium 44  
   NT2 calcium 45  
   NT2 calcium 46  
   NT2 calcium 47  
   NT2 calcium 48  
   NT2 calcium 49  
   NT2 calcium 50  
   NT2 calcium 51  
   NT2 calcium 52  
   NT2 calcium 53  
   NT2 calcium 54  
   NT2 calcium 55  
   NT2 calcium 56  
   NT2 calcium 57  
   NT2 calcium 58  
   NT2 calcium 60  
 NT1 magnesium isotopes  
   NT2 magnesium 19  
   NT2 magnesium 20  
   NT2 magnesium 21  
   NT2 magnesium 22  
   NT2 magnesium 23  
   NT2 magnesium 24  
   NT2 magnesium 25  
   NT2 magnesium 26  
   NT2 magnesium 27  
   NT2 magnesium 28



NT2 magnesium 29  
 NT2 magnesium 30  
 NT2 magnesium 31  
 NT2 magnesium 32  
 NT2 magnesium 33  
 NT2 magnesium 34  
 NT2 magnesium 35  
 NT2 magnesium 36  
 NT2 magnesium 37  
 NT2 magnesium 38  
 NT2 magnesium 39  
 NT2 magnesium 40

NT1 radium isotopes

NT2 radium 201  
 NT2 radium 202  
 NT2 radium 203  
 NT2 radium 204  
 NT2 radium 205  
 NT2 radium 206  
 NT2 radium 207  
 NT2 radium 208  
 NT2 radium 209  
 NT2 radium 210  
 NT2 radium 211  
 NT2 radium 212  
 NT2 radium 213  
 NT2 radium 214  
 NT2 radium 215  
 NT2 radium 216  
 NT2 radium 217  
 NT2 radium 218  
 NT2 radium 219  
 NT2 radium 220  
 NT2 radium 221  
 NT2 radium 222  
 NT2 radium 223  
 NT2 radium 224  
 NT2 radium 225  
 NT2 radium 226  
 NT2 radium 227  
 NT2 radium 228  
 NT2 radium 229  
 NT2 radium 230  
 NT2 radium 231  
 NT2 radium 232  
 NT2 radium 233  
 NT2 radium 234

NT1 strontium isotopes

NT2 strontium 100  
 NT2 strontium 101  
 NT2 strontium 102  
 NT2 strontium 103  
 NT2 strontium 104  
 NT2 strontium 105  
 NT2 strontium 73  
 NT2 strontium 74  
 NT2 strontium 75  
 NT2 strontium 76  
 NT2 strontium 77  
 NT2 strontium 78  
 NT2 strontium 79  
 NT2 strontium 80  
 NT2 strontium 81  
 NT2 strontium 82  
 NT2 strontium 83  
 NT2 strontium 84  
 NT2 strontium 85  
 NT2 strontium 86  
 NT2 strontium 87  
 NT2 strontium 88  
 NT2 strontium 89  
 NT2 strontium 90  
 NT2 strontium 91  
 NT2 strontium 92  
 NT2 strontium 93  
 NT2 strontium 94  
 NT2 strontium 95  
 NT2 strontium 96  
 NT2 strontium 97

NT2 strontium 98

NT2 strontium 99

### ALKALINE EARTH METAL COMPLEXES

BT1 complexes  
 NT1 barium complexes  
 NT1 beryllium complexes  
 NT1 calcium complexes  
 NT1 magnesium complexes  
 NT1 radium complexes  
 NT1 strontium complexes

### ALKALINE EARTH METAL COMPOUNDS

NT1 barium compounds  
 NT2 barium borides  
 NT2 barium bromides  
 NT2 barium carbides  
 NT2 barium carbonates  
 NT2 barium chlorides  
 NT2 barium fluorides  
 NT2 barium hydrides  
 NT2 barium hydroxides  
 NT2 barium iodides  
 NT2 barium nitrates  
 NT2 barium nitrides  
 NT2 barium oxides  
 NT2 barium perchlorates  
 NT2 barium phosphates  
 NT2 barium silicates  
 NT2 barium sulfates  
 NT2 barium sulfides  
 NT2 barium tungstates  
 NT1 beryllium compounds  
 NT2 beryllium borides  
 NT2 beryllium bromides  
 NT2 beryllium carbides  
 NT2 beryllium carbonates  
 NT2 beryllium chlorides  
 NT2 beryllium fluorides  
 NT2 beryllium halides  
 NT3 beryllium iodides  
 NT2 beryllium hydrides  
 NT2 beryllium hydroxides  
 NT2 beryllium nitrates  
 NT2 beryllium nitrides  
 NT2 beryllium oxides  
 NT2 beryllium phosphates  
 NT2 beryllium phosphides  
 NT2 beryllium selenides  
 NT2 beryllium silicates  
 NT2 beryllium sulfates  
 NT2 beryllium sulfides  
 NT2 beryllium tellurides  
 NT1 calcium compounds  
 NT2 calcium borides  
 NT2 calcium carbides  
 NT2 calcium carbonates  
 NT2 calcium halides  
 NT3 calcium bromides  
 NT3 calcium chlorides  
 NT3 calcium fluorides  
 NT3 calcium iodides  
 NT2 calcium hydrides  
 NT2 calcium hydroxides  
 NT2 calcium nitrates  
 NT2 calcium nitrides  
 NT2 calcium oxides  
 NT2 calcium perchlorates  
 NT2 calcium phosphates  
 NT2 calcium silicates  
 NT2 calcium silicides  
 NT2 calcium sulfates  
 NT2 calcium sulfides  
 NT2 calcium tungstates  
 NT1 magnesium compounds  
 NT2 grignard reagents  
 NT2 magnesium arsenides

NT2 magnesium borides  
 NT2 magnesium bromides  
 NT2 magnesium carbides  
 NT2 magnesium carbonates  
 NT2 magnesium chlorides  
 NT2 magnesium fluorides  
 NT2 magnesium hydrides  
 NT2 magnesium hydroxides  
 NT2 magnesium iodides  
 NT2 magnesium nitrates  
 NT2 magnesium nitrides  
 NT2 magnesium oxides  
 NT2 magnesium perchlorates  
 NT2 magnesium phosphates  
 NT2 magnesium silicates  
 NT2 magnesium silicides  
 NT2 magnesium sulfates  
 NT2 magnesium sulfides  
 NT2 magnesium tellurides

NT1 radium compounds

NT2 radium bromides  
 NT2 radium carbonates  
 NT2 radium chlorides  
 NT2 radium halides  
 NT3 radium fluorides  
 NT2 radium nitrates  
 NT2 radium nitrides  
 NT2 radium oxides  
 NT2 radium silicates  
 NT2 radium sulfates  
 NT1 strontium compounds  
 NT2 strontium borides  
 NT2 strontium bromides  
 NT2 strontium carbides  
 NT2 strontium carbonates  
 NT2 strontium chlorides  
 NT2 strontium fluorides  
 NT2 strontium hydrides  
 NT2 strontium hydroxides  
 NT2 strontium iodides  
 NT2 strontium nitrates  
 NT2 strontium oxides  
 NT2 strontium perchlorates  
 NT2 strontium phosphates  
 NT2 strontium silicates  
 NT2 strontium sulfates  
 NT2 strontium sulfides  
 NT2 strontium titanates  
 NT2 strontium tungstates  
 NT2 strontium uranates

### ALKALINE EARTH METALS

\*BT1 metals  
 NT1 barium  
 NT1 beryllium  
 NT1 calcium  
 NT1 magnesium  
 NT1 radium  
 NT1 strontium

### ALKALINE ELECTROLYTE FUEL CELLS

INIS: 1992-05-20; ETDE: 1989-04-12

\*BT1 fuel cells

### alkaline flooding

INIS: 2000-04-12; ETDE: 1981-07-06

USE caustic flooding

### ALKALINE HYDROLYSIS

INIS: 1999-03-10; ETDE: 1980-01-15

\*BT1 hydrolysis  
 RT acid hydrolysis  
 RT enzymatic hydrolysis

### ALKALINE PHOSPHATASE

Code number 3.1.3.1.

\*BT1 phosphatases

**alkalinity**

INIS: 2000-04-12; ETDE: 1984-08-06

USE acid neutralizing capacity

**alkalis (hydroxides)**

INIS: 2000-04-12; ETDE: 1979-06-06

USE hydroxides

**ALKALIZED ALUMINA PROCESS**

INIS: 2000-04-12; ETDE: 1977-12-22

SOX is adsorbed on alkalized alumina, the spent adsorbent regenerated at 1200 degrees F with producer gas.

\*BT1 desulfurization

RT waste processing

**ALKALOIDS**

1996-07-18

(CODEINONE, CINCHONINE, and HYOSCYAMINE have been valid ETDE descriptors.)

UF cinchonine

UF codeinone

UF hyoscyamine

BT1 organic compounds

NT1 atropine

NT1 cocaine

NT1 codeine

NT1 colchicine

NT1 ephedrine

NT1 ergotamine

NT1 eserine

NT1 lysergic acid

NT1 morphine

NT2 thebaine

NT1 nicotine

NT1 oncovin

NT1 pilocarpine

NT1 quinine

NT1 reserpine

NT1 strychnine

NT1 vinblastine

RT medicinal plants

RT plants

**ALKANES**

UF paraffins

\*BT1 hydrocarbons

NT1 2-2-dimethylpropane

NT1 2-methylbutane

NT1 2-methylpropane

NT1 butane

NT1 cycloalkanes

NT2 cyclohexane

NT2 decalin

NT1 decane

NT1 dodecane

NT1 ethane

NT1 heptane

NT1 hexadecane

NT1 hexane

NT1 methane

NT1 octane

NT1 paraffin

NT1 pentane

NT1 propane

NT1 squalane

**alkanoic acids**

USE carboxylic acids

**alkalid process**

2000-04-12

Process for the selective absorption of hydrogen sulfide and for the simultaneous removal of hydrogen sulfide and carbon dioxide at atmospheric or higher pressures. (Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**ALKENES**

UF olefins

\*BT1 hydrocarbons

NT1 2-methylpropene

NT1 butenes

NT1 cycloalkenes

NT2 cyclopentadiene

NT2 norbornadiene

NT2 quadricyclene

NT1 ethylene

NT1 heptenes

NT1 hexenes

NT1 octenes

NT1 pentenes

NT1 propylene

RT polyenes

**alkenoic acids**

USE carboxylic acids

**alkines**

USE alkynes

**ALKOXIDES**

INIS: 1982-02-10; ETDE: 1981-08-04

A group of compounds in which a hydrogen atom of an alcohol or phenol hydroxide group is replaced by a metal.

UF alcoholates

RT alcohols

RT phenols

**ALKOXY RADICALS**

BT1 radicals

NT1 butoxy radicals

NT1 ethoxy radicals

NT1 methoxy radicals

**ALKYL BENZENESULFONATES**

ETDE: 2005-01-28

(Prior to January 2005 ABS was used for this concept.)

UF abs (alkyl benzenesulfonates)

\*BT1 sulfonic acid esters

**ALKYL RADICALS**

1996-07-18

(Prior to March 1997 NONYL RADICALS was a valid ETDE descriptor.)

UF nonyl radicals

BT1 radicals

NT1 allyl radicals

NT1 butyl radicals

NT1 dodecyl radicals

NT1 ethyl radicals

NT1 heptyl radicals

NT1 hexyl radicals

NT1 isobutyl radicals

NT1 isopropyl radicals

NT1 methyl radicals

NT1 octyl radicals

NT1 pentyl radicals

NT1 propargyl radicals

NT1 propyl radicals

NT1 vinyl radicals

RT alkylation

**ALKYLATED AROMATICS**

INIS: 1993-02-18; ETDE: 1984-07-20

Aromatic compounds which have one or more alkyl side chains, including isomers and mixtures.

\*BT1 aromatics

NT1 mesitylene

NT1 methylnaphthalenes

NT1 styrene

NT1 toluene

NT1 xylenes

NT2 xylene-para

**alkylates**

USE alcohols

**ALKYLATING AGENTS**

1999-01-25

UF mannomustine

UF tem (triethylenemelamine)

UF tretamine

UF triethylenemelamine

NT1 endoxan

NT1 myleran

NT1 nitrogen mustard

RT alkylation

RT antimetabolites

RT antimitotic drugs

RT antineoplastic drugs

RT chemosterilants

**ALKYLATION**

BT1 chemical reactions

RT alkyl radicals

RT alkylating agents

**alkylmagnesium compounds**

USE grignard reagents

**ALKYNES**

UF acetylenes

UF alkines

\*BT1 hydrocarbons

NT1 acetylene

NT1 cycloalkynes

NT1 propyne

**ALLANITE**

1996-11-13

(Prior to March 1997 ORTHITE was a valid ETDE descriptor.)

UF orthite

\*BT1 silicate minerals

\*BT1 thorium minerals

RT thorium silicates

**ALLANTOIN**

\*BT1 imidazoles

\*BT1 organic oxygen compounds

RT urea

**ALLEGHENY RIVER**

\*BT1 rivers

RT new york

RT pennsylvania

**ALLENE**

UF propadiene

\*BT1 dienes

**ALLENS CREEK-1 REACTOR**

Houston Lighting and Power Co., Wallis, Texas, USA. Canceled in 1982 before construction began.

\*BT1 bwr type reactors

**ALLENS CREEK-2 REACTOR**

Houston Lighting and Power Co., Wallis, Texas, USA. Canceled in 1982 before construction began.

\*BT1 bwr type reactors

**ALLERGY**

BT1 pathological changes

RT anaphylaxis

RT antihistaminics

RT eczema

RT histamine

RT immune system diseases

RT immunity

**ALLIGATORS**

INIS: 2000-04-12; ETDE: 1977-03-04

\*BT1 reptiles

**ALLIUM CEPA**

\*BT1 onions

**ALLIUM SATIVUM**

1992-09-09

\*BT1 liliopsida

RT bulbs

RT garlic

**ALLOCATIONS**

1985-12-10

UF assignments

UF curtailments

UF rationing

RT availability

RT budgets

RT distribution

RT economic policy

RT emissions trading

RT energy policy

RT entitlements program

RT management

RT planning

RT shortages

**ALLOTROPY**

See also descriptors for specific allotropic forms, e.g., HELIUM-I, IRON-ALPHA, and URANIUM-BETA.

RT crystal structure

RT phase diagrams

RT phase transformations

**allowance for funds used during construction**

INIS: 2000-04-12; ETDE: 1978-11-14

USE afudc

**ALLOXAN**

\*BT1 organic oxygen compounds

\*BT1 pyrimidines

**alloy-0kh12n13m**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

SEE chromium alloys

SEE iron base alloys

**alloy-1915**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE aluminium base alloys

**alloy-214x**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE aluminium base alloys

**alloy-50kh4n6g12f2v**

INIS: 2000-04-12; ETDE: 1979-06-21

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium alloys

**alloy-600 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE inconel 600

**alloy-601 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE alloy-ni61cr23fe14

**alloy-60t**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE titanium base alloys

**alloy-617 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE inconel 617

**alloy-625 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE inconel 625

**alloy-671 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE inconel 671

**alloy-690 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE inconel 690

**alloy-706 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE inconel 706

**alloy-713-1c**

2000-03-24

(Prior to July 1981 this was a valid term, and older information is so indexed.)

USE inconel 7131c

**alloy-7131c (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE inconel 7131c

**alloy-79nm**

INIS: 1996-11-13; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE nickel base alloys

**alloy 800**

INIS: 2000-04-12; ETDE: 1978-09-11

USE incoloy 800

**alloy 800h**

INIS: 2000-04-12; ETDE: 1982-02-23

USE incoloy 800h

**alloy-800h (incoloy)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE incoloy 800h

**alloy-802 (incoloy)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE incoloy 802

**alloy-82 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE inconel 82

**alloy-825 (incoloy)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE incoloy 825

**alloy-901 (incoloy)**

INIS: 1990-06-25; ETDE: 2002-06-06

USE incoloy 901

**ALLOY-A-286**

1993-10-03

\*BT1 steel-ni26cr15ti2mvalb

**ALLOY-AL95CU4**

1983-11-07

\*BT1 aluminium base alloys

\*BT1 copper alloys

\*BT1 iron additions

\*BT1 magnesium additions

\*BT1 manganese additions

\*BT1 silicon additions

NT1 duralumin

**ALLOY-B-1900**

2000-04-12

\*BT1 aluminium alloys

\*BT1 chromium alloys

\*BT1 cobalt alloys

\*BT1 molybdenum alloys

\*BT1 nickel base alloys

\*BT1 tantalum alloys

\*BT1 titanium alloys

**alloy-b-66**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**alloy-b-88**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**ALLOY-BI50PB25CD12SN12**

1983-11-07

\*BT1 bismuth base alloys

\*BT1 cadmium alloys

\*BT1 lead alloys

\*BT1 tin alloys

NT1 wood metal

**ALLOY-C-103**

2000-04-12

\*BT1 hafnium alloys

\*BT1 niobium base alloys

\*BT1 tantalum alloys

\*BT1 titanium alloys

\*BT1 tungsten alloys

\*BT1 yttrium alloys

\*BT1 zirconium alloys

**alloy-c-129y**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**alloy-cb-1**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**alloy-cb-752**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**alloy-ck-20**

1983-11-07

USE steel-cr25ni20

**ALLOY-CO36CR22NI22W15FE3**

1983-11-07

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 haynes alloys

\*BT1 heat resisting alloys

\*BT1 iron alloys

\*BT1 lanthanum additions

\*BT1 nickel alloys

\*BT1 tungsten alloys

NT1 haynes 188 alloy

**ALLOY-CO43CR20FE18NI13W3**

INIS: 1983-11-07; ETDE: 1984-01-27

\*BT1 carbon additions

\*BT1 chromium alloys

\*BT1 cobalt base alloys

\*BT1 iron alloys

\*BT1 manganese alloys

\*BT1 molybdenum alloys

\*BT1 nickel alloys

\*BT1 tungsten alloys

NT1 havar

**ALLOY-CO50FE50**

1983-11-07

- \*BT1 cobalt base alloys
- \*BT1 iron base alloys
- NT1 permendur

**alloy-co52cr17fe15mo3si3**

1983-11-07

- USE cobalt base alloys

**ALLOY-CO52FE35V10**

INIS: 1997-01-28; ETDE: 1983-11-23

- \*BT1 cobalt base alloys
- \*BT1 iron alloys
- \*BT1 vanadium alloys

**alloy-co52fe35v13**

INIS: 1996-07-16; ETDE: 1983-11-23

(Until July 1996 this was a valid descriptor.)

- USE cobalt base alloys
- USE iron alloys
- USE vanadium alloys

**ALLOY-CO54CR20W15NI10**

1983-11-07

- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 haynes alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 nickel alloys
- \*BT1 stellite
- \*BT1 tungsten alloys
- NT1 alloy-hs-25
- NT1 haynes 25 alloy

**ALLOY-CO60CR30W4**

INIS: 1996-11-13; ETDE: 1983-11-22

(From 1974 till March 1997 HAYNES STELLITE 6B was a valid ETDE descriptor.)

- UF haynes stellite 6b
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 haynes alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 nickel alloys
- \*BT1 stellite
- \*BT1 tungsten alloys
- NT1 stellite 6

**alloy-co62cr28mo6ni3**

INIS: 1997-01-28; ETDE: 1983-11-19

(Prior to September 1996 this was a valid ETDE descriptor.)

- USE haynes alloys
- USE stellite

**alloy-co64cr29w4**

INIS: 1996-07-17; ETDE: 1983-11-23

(Prior to August 1996 this was a valid ETDE descriptor. From October 1978 till August 1996 STELLITE 156 was also a valid ETDE descriptor.)

- USE chromium alloys
- USE stellite
- USE tungsten alloys

**alloy-co66cr26w6**

INIS: 1997-01-28; ETDE: 1984-07-10

(Until October 1996 this was a valid descriptor.)

- USE chromium alloys
- USE stellite
- USE tungsten alloys

**ALLOY-CU52NI47**

1983-11-07

- \*BT1 copper base alloys
- \*BT1 nickel alloys
- NT1 constantan

**ALLOY-CU70NI30**

INIS: 1992-03-09; ETDE: 1994-08-10

- \*BT1 copper base alloys

**ALLOY-CU90NI10**

INIS: 1992-03-09; ETDE: 1994-08-10

- \*BT1 copper base alloys

**alloy-d-43**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE niobium base alloys

**ALLOY-D-9**

INIS: 1993-10-03; ETDE: 1984-08-06

- \*BT1 chromium-nickel steels

**ALLOY-D-979**

2000-04-12

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 heat resisting alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys
- \*BT1 titanium alloys
- \*BT1 tungsten alloys

**alloy-dh-245**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE niobium base alloys

**alloy-ehi 183**

ETDE: 1979-05-29

- USE steel-cr17ni13mo3ti

**alloy-ehi 397**

ETDE: 1979-05-29

- USE steel-cr17ni13mo3ti

**alloy-ehi 432**

ETDE: 1979-05-29

- USE steel-cr17ni13mo3ti

**alloy-ehi 437b**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE alloy-ni77cr20ti2

**alloy-ehi 702**

INIS: 2000-03-24; ETDE: 1979-05-29

- SEE alloy-ni77cr20ti2
- SEE steel-ni36cr12ti3al-1

**alloy-ehi 826**

1996-11-27

(Prior to February 1989 this was a valid ETDE descriptor; from then till March 1997 ALLOY-NI68CR15W6AL3MO3FE2 was used for this concept in ETDE.)

- USE nickel base alloys

**alloy-ehi 868**

INIS: 1996-11-13; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 ALLOY-NI60CR25W15 was used for this concept.)

- USE chromium alloys
- USE nickel base alloys
- USE tungsten alloys

**alloy-ehp-199**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 ALLOY-NI56CR21W10MO5FE4AL2 was used for this concept.)

- USE nickel base alloys

**alloy-ehp-496**

INIS: 2000-04-12; ETDE: 1979-05-29

- USE iron alloys
- USE molybdenum alloys
- USE nickel base alloys
- USE vanadium alloys

**alloy-ehp-567**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 ALLOY-NI65MO16CR15W4 was used for this concept.)

- USE chromium alloys
- USE molybdenum alloys
- USE nickel base alloys
- USE tungsten alloys

**alloy-fe31cr21co20ni20mo3w2**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

- USE iron base alloys

**alloy-fe36ni33cr26**

INIS: 1997-01-28; ETDE: 1983-11-22

(Until October 1996 this was a valid descriptor.)

- USE iron base alloys

**ALLOY-FE40NI35CR22**

INIS: 1997-01-28; ETDE: 1983-11-22

- \*BT1 chromium alloys
- \*BT1 iron base alloys
- \*BT1 manganese additions
- \*BT1 nickel alloys
- \*BT1 silicon additions

**ALLOY-FE44NI33CR21**

1983-11-07

- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 incoloy alloys
- \*BT1 iron base alloys
- \*BT1 nickel alloys
- \*BT1 titanium additions
- NT1 incoloy 800h

**ALLOY-FE46NI33CR21**

INIS: 1996-07-23; ETDE: 1983-11-22

(From December 1978 till March 1997 SANICRO 30 was a valid ETDE descriptor.)

- UF sanicro 30
- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 incoloy alloys
- \*BT1 iron base alloys
- \*BT1 nickel alloys
- \*BT1 titanium additions
- NT1 incoloy 800
- NT1 incoloy 802

**alloy-fe48cr24ni24**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

- USE chromium alloys
- USE iron base alloys
- USE nickel alloys
- USE niobium alloys

**ALLOY-FE53NI29CO18**

1983-11-07

- \*BT1 cobalt alloys
- \*BT1 iron base alloys
- \*BT1 manganese additions

\*BT1 nickel alloys

NT1 kovar

### **alloy-fs-85**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

### **alloy-ge**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE copper alloys

USE silver alloys

### **alloy-gmr-235**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE nickel base alloys

### **alloy-hd-556**

INIS: 1997-01-28; ETDE: 1979-08-09

(Until October 1996 this was a valid descriptor.)

USE iron base alloys

### **alloy-hd-8077**

INIS: 2000-04-12; ETDE: 1979-08-09

USE nickel base alloys

### **ALLOY-HK-40**

INIS: 1993-10-03; ETDE: 1979-08-09

\*BT1 steel-cr25ni20

### **alloy-hs-21**

1996-09-12

(Until July 1996 this was a valid descriptor.)

USE haynes alloys

USE stellite

### **ALLOY-HS-25**

1993-10-03

\*BT1 alloy-co54cr20w15ni10

### **ALLOY-HS-31**

2000-04-12

UF alloy-x-40

UF x 40 (alloy)

\*BT1 carbon additions

\*BT1 iron alloys

\*BT1 manganese additions

\*BT1 nickel alloys

\*BT1 silicon additions

\*BT1 stellite

### **alloy-hs-6**

INIS: 2000-04-12; ETDE: 1979-01-30

USE stellite 6

### **ALLOY-HT-9**

INIS: 1993-10-03; ETDE: 1978-02-15

\*BT1 steel-cr12mov

### **ALLOY-IN-100**

1993-10-03

\*BT1 alloy-ni60co15cr10al6ti5mo3

### **ALLOY-IN-102**

2000-04-12

\*BT1 aluminium additions

\*BT1 boron additions

\*BT1 carbon additions

\*BT1 chromium alloys

\*BT1 iron alloys

\*BT1 molybdenum alloys

\*BT1 nickel base alloys

\*BT1 niobium alloys

\*BT1 titanium additions

\*BT1 tungsten alloys

\*BT1 zirconium additions

### **alloy-in-519**

INIS: 1997-01-28; ETDE: 1979-08-09

(Until October 1996 this was a valid descriptor.)

USE chromium alloys

USE iron base alloys

USE nickel alloys

USE niobium alloys

### **alloy-in-643**

INIS: 1996-07-17; ETDE: 1979-10-23

(Until July 1996 this was a valid descriptor.)

USE inconel alloys

### **ALLOY-IN-738**

INIS: 1993-10-03; ETDE: 1980-03-29

\*BT1 alloy-ni61cr16co9al3ti3w3

### **ALLOY-IN-853**

2000-04-12

UF inconel ma 753

\*BT1 aluminium alloys

\*BT1 nickel base alloys

\*BT1 titanium alloys

\*BT1 yttrium oxides

### **ALLOY-IN-939**

INIS: 1993-10-03; ETDE: 1982-02-11

\*BT1 alloy-ni46cr23co19ti5al4

### **alloy-kh20n80**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ni80cr20

### **alloy-kh20n80t**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE nickel base alloys

### **ALLOY-KHN50MBVYU**

INIS: 2000-04-12; ETDE: 1979-06-21

\*BT1 aluminium alloys

\*BT1 chromium alloys

\*BT1 iron alloys

\*BT1 molybdenum alloys

\*BT1 niobium alloys

\*BT1 tungsten alloys

### **alloy-khn56vmtyu**

INIS: 1996-11-13; ETDE: 2002-06-06

USE nickel base alloys

### **alloy-khn60b**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 ALLOY-NI60CR25W15 was used for this concept.)

USE chromium alloys

USE nickel base alloys

USE tungsten alloys

### **alloy-khn60v**

INIS: 1996-11-13; ETDE: 1979-05-29

(Prior to November 1983 ALLOY-EHI 868 was used for this concept in ETDE; from November 1983 till March 1997 ALLOY-NI60CR25W15 was used.)

USE chromium alloys

USE nickel base alloys

USE tungsten alloys

### **alloy-khn60vt**

INIS: 1996-11-13; ETDE: 2002-06-06

USE nickel base alloys

### **alloy-khn67vmtyu**

INIS: 1996-11-13; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 ALLOY-NI67CR19MO5W5TI3 was used for this concept in ETDE.)

USE nickel base alloys

### **alloy-khn77tyu**

INIS: 2000-04-12; ETDE: 1979-05-29

USE nickel base alloys

### **alloy-khn77tyur**

USE alloy-ni77cr20ti2

### **alloy-khn78t**

1983-11-07

USE alloy-ni78cr21

### **alloy-l-605**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE cobalt base alloys

### **alloy-m-252**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE nickel base alloys

### **ALLOY-M-813**

INIS: 2000-04-12; ETDE: 1977-07-23

\*BT1 aluminium alloys

\*BT1 chromium-nickel-molybdenum steels

\*BT1 titanium alloys

### **alloy-ma-754**

INIS: 2000-04-12; ETDE: 1979-08-09

USE nickel base alloys

### **alloy-ma-956**

INIS: 2000-04-12; ETDE: 1979-08-09

USE iron base alloys

### **ALLOY-MAR-M246**

2000-04-12

\*BT1 aluminium alloys

\*BT1 chromium alloys

\*BT1 cobalt alloys

\*BT1 molybdenum alloys

\*BT1 nickel base alloys

\*BT1 tantalum alloys

\*BT1 titanium alloys

\*BT1 tungsten alloys

### **alloy-mm-0011**

INIS: 2000-04-12; ETDE: 1978-12-20

USE nickel base alloys

### **ALLOY-MN-21**

INIS: 2000-04-12; ETDE: 1978-12-20

UF mn-21

\*BT1 aluminium alloys

\*BT1 chromium alloys

\*BT1 molybdenum alloys

\*BT1 nickel base alloys

\*BT1 niobium alloys

\*BT1 tungsten alloys

### **ALLOY-MO-RE-1**

INIS: 2000-04-12; ETDE: 1979-08-09

UF mo-re 1

\*BT1 chromium alloys

\*BT1 iron alloys

\*BT1 manganese alloys

\*BT1 nickel alloys

\*BT1 silicon alloys

\*BT1 tungsten alloys

**ALLOY-MO-RE-2**

INIS: 2000-04-12; ETDE: 1979-10-23

UF mo-re 2

\*BT1 chromium base alloys

\*BT1 nickel base alloys

\*BT1 tungsten base alloys

**ALLOY-MO99**

1983-11-07

UF alloy-vm-1

UF tzm

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 molybdenum base alloys

\*BT1 titanium additions

\*BT1 zirconium additions

NT1 alloy-tzm

NT1 alloy-zm-2a

**ALLOY-MO99B**

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-ism6

\*BT1 boron additions

\*BT1 molybdenum base alloys

\*BT1 zirconium additions

**ALLOY-MP35N**

INIS: 2000-04-12; ETDE: 1979-01-30

UF mp35n

\*BT1 chromium alloys

\*BT1 cobalt alloys

\*BT1 molybdenum alloys

\*BT1 nickel alloys

**ALLOY-N-10M**

2000-04-12

\*BT1 carbon additions

\*BT1 heat resisting alloys

\*BT1 molybdenum alloys

\*BT1 niobium base alloys

\*BT1 tantalum additions

\*BT1 titanium additions

\*BT1 zirconium additions

**alloy-n-155**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE iron base alloys

**ALLOY-N-9M**

2000-04-12

\*BT1 carbon additions

\*BT1 heat resisting alloys

\*BT1 molybdenum alloys

\*BT1 niobium base alloys

\*BT1 zirconium additions

**ALLOY-N28T3**

INIS: 2000-04-12; ETDE: 1979-05-29

\*BT1 carbon additions

\*BT1 manganese additions

\*BT1 nickel alloys

\*BT1 silicon additions

\*BT1 titanium alloys

**alloy-n55m20v25**

2000-04-12

USE molybdenum alloys

USE nickel base alloys

USE tungsten alloys

**alloy-n65m20v15**

2000-04-12

USE molybdenum alloys

USE nickel base alloys

USE tungsten alloys

**ALLOY-NI41FE40CR16NB3**

1983-11-07

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 inconel alloys

\*BT1 iron alloys

\*BT1 niobium alloys

\*BT1 titanium alloys

NT1 inconel 706

**alloy-ni42fe36cr12mo6ti3**

1983-11-07

USE incoloy alloys

USE nickel base alloys

**ALLOY-NI43FE30CR22MO3**

INIS: 1983-11-07; ETDE: 1984-01-27

\*BT1 aluminium additions

\*BT1 chromium alloys

\*BT1 copper alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 incoloy alloys

\*BT1 iron alloys

\*BT1 molybdenum alloys

\*BT1 nickel base alloys

\*BT1 titanium additions

NT1 incoloy 825

**ALLOY-NI43FE33CR16MO3**

1983-11-07

UF pe-16

\*BT1 aluminium alloys

\*BT1 boron additions

\*BT1 chromium alloys

\*BT1 cobalt additions

\*BT1 copper additions

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 iron alloys

\*BT1 molybdenum alloys

\*BT1 nimonic

\*BT1 titanium alloys

\*BT1 zirconium additions

NT1 nimonic pe16

**alloy-ni45cr23fe19co3mo3w3**

INIS: 1983-11-07; ETDE: 1984-01-27

USE nickel base alloys

**ALLOY-NI45FE34CR20**

1983-11-07

UF steel-kh20n45b

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 iron alloys

\*BT1 nickel base alloys

\*BT1 niobium additions

**ALLOY-NI46CR23CO19TI5AL4**

1983-11-16

\*BT1 aluminium alloys

\*BT1 boron additions

\*BT1 chromium alloys

\*BT1 cobalt alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 inconel alloys

\*BT1 iron additions

\*BT1 niobium additions

\*BT1 tantalum alloys

\*BT1 titanium alloys

\*BT1 zirconium additions

NT1 alloy-in-939

**alloy-ni47cr25co12w9fe3**

INIS: 1996-07-17; ETDE: 1983-11-19

(Until July 1996 this was a valid descriptor.)

USE inconel alloys

**alloy-ni48co28cr15al3mo3ti2**

INIS: 1996-07-17; ETDE: 1983-11-22

(Until July 1996 this was a valid descriptor.)

USE inconel alloys

**alloy-ni48cr22fe18mo9**

INIS: 1996-07-17; ETDE: 1983-11-22

(Until July 1996 this was a valid descriptor.)

USE nimonic

**ALLOY-NI49CR22FE18MO9**

1983-11-07

\*BT1 chromium alloys

\*BT1 cobalt alloys

\*BT1 corrosion resistant alloys

\*BT1 hastelloys

\*BT1 heat resisting alloys

\*BT1 iron alloys

\*BT1 molybdenum alloys

\*BT1 tungsten additions

NT1 hastelloy x

**ALLOY-NI50CO20CR15AL5MO5**

INIS: 1983-11-07; ETDE: 1984-01-27

\*BT1 aluminium alloys

\*BT1 chromium alloys

\*BT1 cobalt alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 iron alloys

\*BT1 molybdenum alloys

\*BT1 nimonic

\*BT1 titanium alloys

NT1 nimonic 105

**ALLOY-NI50CR22FE18MO9**

1983-11-07

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 hastelloys

\*BT1 heat resisting alloys

\*BT1 iron alloys

\*BT1 molybdenum alloys

\*BT1 tungsten additions

NT1 hastelloy xr

**ALLOY-NI50MO32CR15SI3**

INIS: 1996-11-13; ETDE: 1983-11-23

(From October 1978 till March 1997 TRIBALLOY 700 was a valid ETDE descriptor.)

UF tribaloy 700

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 molybdenum alloys

\*BT1 nickel base alloys

\*BT1 silicon alloys

**ALLOY-NI51CR48**

1983-11-07

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 inconel alloys

\*BT1 titanium additions

NT1 inconel 671

**ALLOY-NI53CO19CR15MO5AL4TI3**

1983-11-07

\*BT1 aluminium alloys

\*BT1 boron additions

\*BT1 corrosion resistant alloys

\*BT1 udimet alloys

NT1 udimet 700

**ALLOY-NI53CR19FE19NB5MO3**

1983-11-07

\*BT1 aluminium additions

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 inconel alloys

\*BT1 iron alloys

\*BT1 molybdenum alloys

\*BT1 niobium alloys

\*BT1 titanium additions  
NT1 inconel 718

**ALLOY-NI54CR22CO13MO9**

1983-11-07

\*BT1 aluminium additions  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 inconel alloys  
\*BT1 molybdenum alloys  
NT1 inconel 617

**ALLOY-NI54MO17CR16FE6W4**

1983-11-07

\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 corrosion resistant alloys  
\*BT1 hastelloys  
\*BT1 heat resisting alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 tungsten alloys  
\*BT1 vanadium additions  
NT1 hastelloy c

**ALLOY-NI55CO17CR15MO5AL4TI4**

1983-11-07

\*BT1 aluminium alloys  
\*BT1 boron additions  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys  
\*BT1 titanium alloys  
\*BT1 zirconium additions  
NT1 astroloy

**ALLOY-NI55CR19CO11MO10TI3**

1983-11-07

\*BT1 aluminium alloys  
\*BT1 boron additions  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys  
\*BT1 titanium alloys  
NT1 rene 41

**alloy-ni56cr21w10mo5fe4al2**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

USE nickel base alloys

**alloy-ni58cr14co8al4mo4nb4w4**

1983-11-07

USE nickel base alloys

**ALLOY-NI58CR20CO14MO4TI3**

1983-11-08

\*BT1 aluminium alloys  
\*BT1 boron additions  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys  
\*BT1 titanium alloys  
\*BT1 zirconium additions  
NT1 waspaloy

**ALLOY-NI59CR20CO17TI2**

INIS: 1996-11-13; ETDE: 1983-11-22

(From June 1977 till March 1997 NIMONIC 90 was a valid ETDE descriptor.)

UF nimonic 90

\*BT1 aluminium alloys  
\*BT1 boron additions  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 iron alloys  
\*BT1 nimonic  
\*BT1 titanium alloys  
\*BT1 zirconium additions

**ALLOY-NI59CR30FE9**

1983-11-07

\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 inconel alloys  
\*BT1 iron alloys  
\*BT1 titanium additions  
NT1 inconel 690

**ALLOY-NI60CO15CR10AL6TI5MO3**

1983-11-07

\*BT1 aluminium alloys  
\*BT1 boron additions  
\*BT1 carbon additions  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 copper additions  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 inconel alloys  
\*BT1 iron additions  
\*BT1 molybdenum alloys  
\*BT1 titanium alloys  
\*BT1 vanadium additions  
\*BT1 zirconium additions  
NT1 alloy-in-100

**alloy-ni60cr14co10ti5mo4w4al3**

1983-11-07

USE nickel base alloys

**alloy-ni60cr25w15**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

USE chromium alloys  
USE nickel base alloys  
USE tungsten alloys

**ALLOY-NI60FE24CR16**

1983-11-07

UF chromel c

UF tophet c

\*BT1 chromel  
\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 iron alloys  
NT1 nichrome

**ALLOY-NI61CR16CO9AL3TI3W3**

1983-11-07

\*BT1 aluminium alloys  
\*BT1 boron additions  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 inconel alloys  
\*BT1 molybdenum alloys  
\*BT1 niobium additions  
\*BT1 tantalum alloys  
\*BT1 titanium alloys

\*BT1 tungsten alloys  
\*BT1 zirconium additions  
NT1 alloy-in-738

**ALLOY-NI61CR22MO9NB4FE3**

1983-11-07

\*BT1 aluminium additions  
\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 inconel alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 niobium additions  
\*BT1 titanium additions  
NT1 inconel 625

**ALLOY-NI61CR23FE14**

INIS: 1985-01-17; ETDE: 1989-03-17

UF alloy-601 (inconel)

UF inconel 601

\*BT1 chromium alloys  
\*BT1 inconel alloys  
\*BT1 iron alloys

**ALLOY-NI62CR16MO15FE3**

1983-11-07

\*BT1 aluminium additions  
\*BT1 boron additions  
\*BT1 chromium alloys  
\*BT1 cobalt additions  
\*BT1 corrosion resistant alloys  
\*BT1 hastelloys  
\*BT1 heat resisting alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 tungsten additions  
\*BT1 vanadium additions  
NT1 hastelloy s

**ALLOY-NI65CR25MO10**

1983-11-07

\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 molybdenum alloys  
\*BT1 nimonic  
NT1 nimonic 86

**alloy-ni65mo16cr15w4**

INIS: 2000-04-12; ETDE: 1983-11-19

(Prior to March 1997 this was a valid ETDE descriptor.)

USE chromium alloys  
USE molybdenum alloys  
USE nickel base alloys  
USE tungsten alloys

**ALLOY-NI65MO28FE5**

1983-11-07

\*BT1 chromium additions  
\*BT1 cobalt alloys  
\*BT1 corrosion resistant alloys  
\*BT1 hastelloys  
\*BT1 vanadium additions  
NT1 hastelloy b

**ALLOY-NI66CU32**

1983-11-07

UF monel r-405

\*BT1 copper alloys  
\*BT1 iron alloys  
\*BT1 manganese additions  
\*BT1 monel  
NT1 monel 400

**alloy-ni67cr19mo5w5ti3**

INIS: 1997-01-28; ETDE: 1984-01-27

(Until October 1996 this was a valid descriptor.)

USE nickel base alloys

**alloy-ni68cr15w6al3mo3fe2**

INIS: 1997-01-28; ETDE: 1983-11-19  
(Until October 1996 this was a valid descriptor.)

USE nickel base alloys

**ALLOY-NI70MO17CR7FE5**

1983-11-07

\*BT1 aluminium additions  
\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 hastelloys  
\*BT1 heat resisting alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 titanium additions  
NT1 hastelloy n  
NT1 inor-8  
RT inconel alloys

**ALLOY-NI73CR15FE7TI3**

1983-11-07

\*BT1 aluminium additions  
\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 inconel alloys  
\*BT1 iron alloys  
\*BT1 niobium additions  
\*BT1 titanium alloys  
NT1 inconel x750

**ALLOY-NI73CR20MN3NB3**

1983-11-07

\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 inconel alloys  
\*BT1 iron additions  
\*BT1 manganese alloys  
\*BT1 niobium alloys  
\*BT1 titanium additions  
NT1 inconel 82

**ALLOY-NI74CR13AL6MO4**

1983-11-07

\*BT1 aluminium alloys  
\*BT1 boron additions  
\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 inconel alloys  
\*BT1 molybdenum alloys  
\*BT1 niobium alloys  
\*BT1 titanium additions  
\*BT1 zirconium additions  
NT1 inconel 713c

**ALLOY-NI75CR12AL6MO5**

1983-11-07

\*BT1 aluminium alloys  
\*BT1 boron additions  
\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 inconel alloys  
\*BT1 molybdenum alloys  
\*BT1 niobium alloys  
\*BT1 titanium additions  
\*BT1 zirconium additions  
NT1 inconel 713lc

**ALLOY-NI76CR15FE8**

1983-11-07

UF sanicro 70  
\*BT1 aluminium additions  
\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 inconel alloys  
\*BT1 iron alloys

\*BT1 nimonic  
\*BT1 titanium additions  
NT1 inconel 600

**ALLOY-NI76CR20TI2**

1983-11-07

\*BT1 aluminium alloys  
\*BT1 boron additions  
\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 nimonic  
\*BT1 titanium alloys  
\*BT1 zirconium additions  
NT1 nimonic 80a

**ALLOY-NI77CR20TI2**

1983-11-07

UF alloy-ehi 437b  
UF alloy-khn77tyur  
SF alloy-ehi 702  
\*BT1 aluminium additions  
\*BT1 boron additions  
\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 iron alloys  
\*BT1 nickel base alloys  
\*BT1 titanium alloys

**alloy-ni78cr16al4**

INIS: 1997-01-28; ETDE: 1983-11-22  
(Until October 1996 this was a valid descriptor.)

USE aluminium alloys  
USE chromium alloys  
USE inconel alloys

**ALLOY-NI78CR21**

1983-11-07

UF alloy-khn78t  
\*BT1 aluminium additions  
\*BT1 chromium alloys  
\*BT1 iron alloys  
\*BT1 manganese additions  
\*BT1 nickel base alloys  
\*BT1 silicon additions  
\*BT1 titanium additions

**ALLOY-NI79FE16MO4**

INIS: 1997-01-28; ETDE: 1983-11-22

\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys

**ALLOY-NI80CR20**

1983-11-07

UF alloy-kh20n80  
UF chromel a  
UF nichrome v  
UF tophet a  
\*BT1 aluminium additions  
\*BT1 chromel  
\*BT1 chromium alloys  
\*BT1 iron additions  
\*BT1 silicon additions

**alloy-ni80fe16mo4**

INIS: 1997-01-28; ETDE: 1983-11-22  
(Until October 1996 this was a valid descriptor.)

USE molybdenum alloys  
USE nickel base alloys  
USE permalloy

**ALLOY-NI94MN3AL2**

1983-11-07

\*BT1 aluminium alloys  
\*BT1 manganese alloys  
\*BT1 nickel base alloys  
\*BT1 silicon additions

NT1 alumel

**ALLOY-NT25A5**

INIS: 2000-04-12; ETDE: 1979-05-29

\*BT1 aluminium alloys  
\*BT1 heat resisting alloys  
\*BT1 niobium base alloys  
\*BT1 titanium alloys

**ALLOY NUCLEAR FUELS**

\*BT1 nuclear fuels  
\*BT1 solid fuels  
NT1 uranium-molybdenum fuels

**ALLOY-NX-188**

INIS: 2000-04-12; ETDE: 1978-12-20

UF nx-188  
\*BT1 aluminium alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys

**ALLOY-RA-333**

INIS: 1993-10-03; ETDE: 1979-08-09

UF ra 333  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys  
\*BT1 silicon alloys  
\*BT1 tungsten alloys

**ALLOY-S-590**

2000-04-12

\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 heat resisting alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel alloys  
\*BT1 niobium alloys  
\*BT1 tungsten alloys

**ALLOY-S-816**

2000-04-12

\*BT1 carbon additions  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 heat resisting alloys  
\*BT1 iron alloys  
\*BT1 manganese alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel alloys  
\*BT1 niobium alloys  
\*BT1 silicon additions  
\*BT1 tantalum alloys  
\*BT1 tungsten alloys

**alloy su31**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**ALLOY SYSTEMS**

NT1 binary alloy systems  
NT1 quaternary alloy systems  
NT1 ternary alloy systems  
RT alloys  
RT phase diagrams  
RT vegard law

**alloy-ta-10v**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

SEE tantalum base alloys

**ALLOY-TA90W8HF**

1983-11-07

\*BT1 hafnium alloys



- \*BT1 tantalum base alloys
- \*BT1 tungsten alloys
- NT1 tantalum alloy-t111

**ALLOY-TI78CR11MO7AL3**

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-vt15

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys

**ALLOY-TI88MO8AL3**

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-vt22

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 iron additions
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys

**ALLOY-TI89AL6MO3**

1983-11-07

UF alloy-vt9

- \*BT1 aluminium alloys
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys
- \*BT1 zirconium alloys

**ALLOY-TI90AL6**

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-vt20

- \*BT1 aluminium alloys
- \*BT1 molybdenum additions
- \*BT1 titanium base alloys
- \*BT1 vanadium additions
- \*BT1 zirconium alloys

**ALLOY-TI90AL6MO3**

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-vt8

- \*BT1 aluminium alloys
- \*BT1 iron additions
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys

**ALLOY-TI90AL6V4**

1983-11-07

UF alloy-vt6

- \*BT1 aluminium alloys
- \*BT1 iron additions
- \*BT1 titanium base alloys
- \*BT1 vanadium alloys

**ALLOY-TI90MO7AL2**

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-vt16

- \*BT1 aluminium alloys
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys

**ALLOY-TI91AL4MO3**

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-vt14

- \*BT1 aluminium alloys
- \*BT1 iron additions
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys
- \*BT1 vanadium alloys

**ALLOY-TI91AL5CR2**

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-vt3-1

UF alloy-vtz-1

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 iron additions
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys

**ALLOY-TI99**

1983-11-07

UF alloy-vt1-0

- \*BT1 titanium base alloys

**alloy-ts5**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

- SEE titanium base alloys

**alloy-tsm6**

INIS: 1983-11-07; ETDE: 1978-10-30

(Prior to 1989 this was a valid ETDE descriptor.)

- USE alloy-mo99b

**alloy-tzc**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- SEE molybdenum base alloys

**ALLOY-TZM**

1993-10-03

- \*BT1 alloy-mo99

**ALLOY-U90NB7ZR3**

INIS: 1996-11-13; ETDE: 1983-11-22

(From 1974 till March 1997 MULBERRY ALLOY was a valid ETDE descriptor.)

UF mulberry alloy

- \*BT1 niobium alloys
- \*BT1 uranium base alloys
- \*BT1 zirconium alloys

**ALLOY-V-36**

2000-04-12

- \*BT1 carbon additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 manganese additions
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys
- \*BT1 niobium alloys
- \*BT1 silicon additions
- \*BT1 tantalum alloys
- \*BT1 tungsten alloys

**ALLOY-V87CR9FE3**

INIS: 1996-11-13; ETDE: 1983-11-23

(Until October 1996 this was a valid descriptor.)

UF vanstar 7

- \*BT1 chromium alloys
- \*BT1 iron alloys
- \*BT1 vanadium base alloys
- \*BT1 zirconium alloys

**alloy-vad23**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

- SEE aluminium base alloys

**alloy-vm-1**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE alloy-mo99

**alloy-vn-3**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- SEE niobium base alloys

**alloy-vt1-0**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE alloy-ti99

**alloy-vt14**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE alloy-ti91al4mo3

**alloy-vt15**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE alloy-ti78cr11mo7al3

**alloy-vt16**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE alloy-ti90mo7al2

**alloy-vt20**

INIS: 1983-11-07; ETDE: 1978-10-19

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE alloy-ti90al6

**alloy-vt22**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE alloy-ti88mo8al3

**alloy-vt3-1**

INIS: 1983-11-07; ETDE: 1977-04-13

(Prior to March 1989 this was valid ETDE descriptor.)

- USE alloy-ti91al5cr2

**alloy-vt30**

INIS: 2000-04-12; ETDE: 1985-10-25

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE titanium base alloys

**alloy-vt6**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE alloy-ti90al6v4

**alloy-vt8**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE alloy-ti90al6mo3

**alloy-vt9**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE alloy-ti89al6mo3

**alloy-vtz-1**

1977-11-21

(Prior to 1989 this was a valid ETDE descriptor.)

- USE alloy-ti91al5cr2

**alloy-vus-6**

INIS: 2000-04-12; ETDE: 1979-05-29

- USE niobium base alloys

**alloy-vzh98**

INIS: 1996-11-13; ETDE: 1979-05-29

(Prior to November 1983 ALLOY-EHI 868 was used for this concept in ETDE; from

November 1983 till March 1997 ALLOY-NI60CR25W15 was used.)  
 USE chromium alloys  
 USE nickel base alloys  
 USE tungsten alloys

**alloy-waz-16**

INIS: 2000-04-12; ETDE: 1979-08-09  
 USE nickel base alloys

**alloy-x-40**

INIS: 2000-04-12; ETDE: 1979-12-17  
 USE alloy-hs-31

**alloy-x750 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-07  
 USE inconel x750

**ALLOY-YUNDK 25BA**

INIS: 2000-04-12; ETDE: 1979-06-21

- \*BT1 aluminium alloys
- \*BT1 cobalt alloys
- \*BT1 copper alloys
- \*BT1 iron alloys
- \*BT1 nickel alloys
- \*BT1 niobium additions

**ALLOY-ZM-2A**

1993-10-03  
 \*BT1 alloy-mo99

**ALLOY-ZR97NB3**

INIS: 1985-07-23; ETDE: 1989-03-18  
 \*BT1 heat resisting alloys  
 \*BT1 niobium alloys  
 \*BT1 zirconium base alloys

**ALLOY-ZR98SN-2**

1983-11-07  
 \*BT1 chromium additions  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron additions  
 \*BT1 nickel additions  
 \*BT1 tin alloys  
 \*BT1 zircaloy  
 NT1 zircaloy 2

**ALLOY-ZR98SN-4**

1983-11-07  
 \*BT1 chromium additions  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron additions  
 \*BT1 tin alloys  
 \*BT1 zircaloy  
 NT1 zircaloy 4

**alloying effects**

INIS: 1994-07-01; ETDE: 1978-02-14  
 USE metallurgical effects

**ALLOYS**

1996-01-24  
 UF actinium additions  
 UF astatine additions  
 UF berkelium additions  
 UF californium additions  
 UF einsteinium additions  
 UF radium additions  
 NT1 actinide alloys  
 NT2 americium alloys  
 NT2 berkelium alloys  
 NT2 californium alloys  
 NT2 curium alloys  
 NT3 curium additions  
 NT2 einsteinium alloys  
 NT2 neptunium alloys  
 NT3 neptunium additions  
 NT2 plutonium alloys  
 NT3 plutonium base alloys  
 NT2 protactinium alloys

NT2 thorium alloys  
 NT3 magnesium alloy-hk31a  
 NT3 thorium additions  
 NT3 thorium base alloys  
 NT2 uranium alloys  
 NT3 uranium base alloys  
 NT4 alloy-u90nb7zr3  
 NT1 aluminium alloys  
 NT2 alloy-b-1900  
 NT2 alloy-d-979  
 NT2 alloy-in-853  
 NT2 alloy-khn50mbvyu  
 NT2 alloy-m-813  
 NT2 alloy-mar-m246  
 NT2 alloy-mn-21  
 NT2 alloy-ni43fe33cr16mo3  
 NT3 nimonic pe16  
 NT2 alloy-ni46cr23co19ti5al4  
 NT3 alloy-in-939  
 NT2 alloy-ni50co20cr15al5mo5  
 NT3 nimonic 105  
 NT2 alloy-ni53co19cr15mo5al4ti3  
 NT3 udimet 700  
 NT2 alloy-ni55co17cr15mo5al4ti4  
 NT3 astroloy  
 NT2 alloy-ni55cr19co11mo10ti3  
 NT3 rene 41  
 NT2 alloy-ni58cr20co14mo4ti3  
 NT3 waspaloy  
 NT2 alloy-ni59cr20co17ti2  
 NT2 alloy-ni60co15cr10al6ti5mo3  
 NT3 alloy-in-100  
 NT2 alloy-ni61cr16co9al3ti3w3  
 NT3 alloy-in-738  
 NT2 alloy-ni74cr13al6mo4  
 NT3 inconel 713c  
 NT2 alloy-ni75cr12al6mo5  
 NT3 inconel 713lc  
 NT2 alloy-ni76cr20ti2  
 NT3 nimonic 80a  
 NT2 alloy-ni94mn3al2  
 NT3 alumel  
 NT2 alloy-nt25a5  
 NT2 alloy-nx-188  
 NT2 alloy-ti78cr11mo7al3  
 NT2 alloy-ti88mo8al3  
 NT2 alloy-ti89al6mo3  
 NT2 alloy-ti90al6  
 NT2 alloy-ti90al6mo3  
 NT2 alloy-ti90al6v4  
 NT2 alloy-ti90mo7al2  
 NT2 alloy-ti91al4mo3  
 NT2 alloy-ti91al5cr2  
 NT2 alloy-yundk 25ba  
 NT2 alnico alloys  
 NT2 aluminium additions  
 NT3 alloy-fe44ni33cr21  
 NT4 incoloy 800h  
 NT3 alloy-fe46ni33cr21  
 NT4 incoloy 800  
 NT4 incoloy 802  
 NT3 alloy-in-102  
 NT3 alloy-ni43fe30cr22mo3  
 NT4 incoloy 825  
 NT3 alloy-ni53cr19fe19nb5mo3  
 NT4 inconel 718  
 NT3 alloy-ni54cr22co13mo9  
 NT4 inconel 617  
 NT3 alloy-ni61cr22mo9nb4fe3  
 NT4 inconel 625  
 NT3 alloy-ni62cr16mo15fe3  
 NT4 hastelloy s  
 NT3 alloy-ni70mo17cr7fe5  
 NT4 hastelloy n  
 NT4 inor-8  
 NT3 alloy-ni73cr15fe7ti3  
 NT4 inconel x750  
 NT3 alloy-ni76cr15fe8  
 NT4 inconel 600

NT3 alloy-ni77cr20ti2  
 NT3 alloy-ni78cr21  
 NT3 alloy-ni80cr20  
 NT3 discaloy  
 NT3 incoloy 901  
 NT3 steel-cr13al  
 NT4 stainless steel-405  
 NT3 steel-cranlino  
 NT3 steel-ni26cr15ti2movalb  
 NT4 alloy-a-286  
 NT3 steel-ni36cr12ti3al-l  
 NT2 aluminium base alloys  
 NT3 alloy-al95cu4  
 NT4 duralumin  
 NT3 aludur  
 NT3 bondur  
 NT3 duranalium  
 NT3 heddur  
 NT3 lynite  
 NT3 magnalium  
 NT2 duranickel  
 NT2 ge 2541  
 NT2 heusler alloys  
 NT2 hoskins 875  
 NT2 kanthal  
 NT2 magnesium alloy-az31b  
 NT2 nimonic 115  
 NT2 rene-100  
 NT2 rene 80  
 NT2 rene 95  
 NT2 stainless steel-17-7ph  
 NT2 zamak  
 NT1 antimony alloys  
 NT2 antimony additions  
 NT2 antimony base alloys  
 NT2 terne-metal  
 NT1 arsenic alloys  
 NT2 arsenic additions  
 NT1 barium alloys  
 NT2 barium additions  
 NT2 barium base alloys  
 NT1 beryllium alloys  
 NT2 beryllium additions  
 NT2 beryllium base alloys  
 NT1 bismuth alloys  
 NT2 bismuth additions  
 NT2 bismuth base alloys  
 NT3 alloy-bi50pb25cd12sn12  
 NT4 wood metal  
 NT3 cerrobend alloys  
 NT3 lichtenberg alloy  
 NT3 newton-metal  
 NT2 rose-metal  
 NT1 boron alloys  
 NT2 boron additions  
 NT3 alloy-in-102  
 NT3 alloy-mo99b  
 NT3 alloy-ni43fe33cr16mo3  
 NT4 nimonic pe16  
 NT3 alloy-ni46cr23co19ti5al4  
 NT4 alloy-in-939  
 NT3 alloy-ni53co19cr15mo5al4ti3  
 NT4 udimet 700  
 NT3 alloy-ni55co17cr15mo5al4ti4  
 NT4 astroloy  
 NT3 alloy-ni55cr19co11mo10ti3  
 NT4 rene 41  
 NT3 alloy-ni58cr20co14mo4ti3  
 NT4 waspaloy  
 NT3 alloy-ni59cr20co17ti2  
 NT3 alloy-ni60co15cr10al6ti5mo3  
 NT4 alloy-in-100  
 NT3 alloy-ni61cr16co9al3ti3w3  
 NT4 alloy-in-738  
 NT3 alloy-ni62cr16mo15fe3  
 NT4 hastelloy s  
 NT3 alloy-ni74cr13al6mo4  
 NT4 inconel 713c  
 NT3 alloy-ni75cr12al6mo5

- NT4** inconel 713c  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** alloy-ni77cr20ti2  
**NT3** incoloy 901  
**NT3** rene 80  
**NT3** steel-cr15ni15motib  
**NT3** steel-ni26cr15ti2moyalb  
**NT4** alloy-a-286  
**NT2** colmonoy  
**NT1** brazing alloys  
**NT1** cadmium alloys  
**NT2** alloy-bi50pb25cd12sn12  
**NT3** wood metal  
**NT2** cadmium additions  
**NT3** zamak  
**NT2** cadmium base alloys  
**NT2** cerrobend alloys  
**NT1** calcium alloys  
**NT2** calcium additions  
**NT2** calcium base alloys  
**NT1** carbon additions  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-hs-31  
**NT2** alloy-in-102  
**NT2** alloy-n-10m  
**NT2** alloy-n-9m  
**NT2** alloy-n28t3  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** ascology  
**NT2** astroloy  
**NT2** austenite  
**NT2** cast iron  
**NT2** discaloy  
**NT2** duriron  
**NT2** ferrite  
**NT2** martensite  
**NT2** rene 41  
**NT2** rene 95  
**NT2** steels  
**NT3** austenitic steels  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr17ni12mo3  
**NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-l  
**NT5** stainless steel-316l  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-cr17ni7  
**NT5** stainless steel-301  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr18ni10-l  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni11  
**NT5** steel-x6crni1811  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr18ni12  
**NT5** stainless steel-305  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni8  
**NT5** stainless steel-18-8  
**NT4** steel-cr18ni9  
**NT5** stainless steel-302  
**NT4** steel-cr18ni9ti  
**NT5** stainless steel-304  
**NT4** steel-cr19ni10-l  
**NT5** stainless steel-304l  
**NT4** steel-cr20ni11  
**NT5** stainless steel-308  
**NT4** steel-cr20ni11-l  
**NT5** stainless steel-308l  
**NT4** steel-cr21mn9ni6  
**NT5** stainless steel-21-6-9  
**NT4** steel-cr23ni14  
**NT5** stainless steel-309  
**NT5** stainless steel-309s  
**NT4** steel-cr23ni18  
**NT4** steel-cr25ni20  
**NT5** alloy-hk-40  
**NT5** stainless steel-310  
**NT4** steel-ni25cr20  
**NT5** stainless steel-20-25  
**NT4** steel-ni26cr15ti2moyalb  
**NT5** alloy-a-286  
**NT3** carbon steels  
**NT4** steel-astm-a105  
**NT4** steel-astm-a106  
**NT4** steel-astm-a212  
**NT4** steel-astm-a285  
**NT4** steel-astm-a516  
**NT4** steel-astm-a533-b  
**NT4** steel-in-787  
**NT4** steel-sae-1045  
**NT3** croloy  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr5mo  
**NT3** ferritic steels  
**NT4** steel-cr12moniv  
**NT4** steel-cr13al  
**NT5** stainless steel-405  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr25  
**NT5** stainless steel-446  
**NT4** steel-cr9mo  
**NT4** steel-cr9monbv  
**NT3** high alloy steels  
**NT4** stainless steels  
**NT5** chromium-nickel steels  
**NT6** alloy-d-9  
**NT6** carpenter  
**NT6** chromium-nickel-molybdenum steels  
**NT7** alloy-m-813  
**NT7** steel-cr11ni10mo2ti-l  
**NT7** steel-cr15ni15motib  
**NT7** steel-cr16ni13monbv  
**NT7** steel-cr16ni15mo3nb  
**NT7** steel-cr16ni16monb  
**NT7** steel-cr16ni8mo2  
**NT8** stainless steel-16-8-2  
**NT7** steel-cr16ni9mo2  
**NT7** steel-cr17ni12mo3  
**NT8** stainless steel-316  
**NT7** steel-cr17ni12mo3-l  
**NT8** stainless steel-316l  
**NT8** stainless steel-zcnd17-13  
**NT7** steel-cr17ni12monb  
**NT7** steel-cr17ni13mo2ti  
**NT7** steel-cr17ni13mo3ti  
**NT7** steel-ni26cr15ti2moyalb  
**NT8** alloy-a-286  
**NT6** durco  
**NT6** enduro  
**NT6** stainless steel-17-7ph  
**NT6** stainless steel-303  
**NT6** stainless steel-329  
**NT6** stainless steel-ph-15-7-mo  
**NT6** steel-cr17ni13  
**NT6** steel-cr17ni7  
**NT7** stainless steel-301  
**NT6** steel-cr18ni10  
**NT7** stainless steel-18-10  
**NT6** steel-cr18ni10-l  
**NT6** steel-cr18ni10ti  
**NT7** stainless steel-321  
**NT6** steel-cr18ni11  
**NT7** steel-x6crni1811  
**NT6** steel-cr18ni11nb  
**NT7** stainless steel-347  
**NT6** steel-cr18ni11nbco  
**NT7** stainless steel-348  
**NT6** steel-cr18ni12  
**NT7** stainless steel-305  
**NT6** steel-cr18ni12ti  
**NT6** steel-cr18ni12ti  
**NT7** stainless steel-305  
**NT6** steel-cr18ni12ti  
**NT6** steel-cr18ni8  
**NT7** stainless steel-18-8  
**NT6** steel-cr18ni8  
**NT7** stainless steel-18-8  
**NT6** steel-cr18ni9  
**NT7** stainless steel-18-8  
**NT6** steel-cr18ni9  
**NT7** stainless steel-302  
**NT6** steel-cr18ni9ti  
**NT6** steel-cr19ni10  
**NT7** stainless steel-304  
**NT6** steel-cr19ni10-l  
**NT7** stainless steel-304l  
**NT6** steel-cr20ni11  
**NT7** stainless steel-308  
**NT6** steel-cr20ni11-l  
**NT7** stainless steel-308l  
**NT6** steel-cr23ni14  
**NT7** stainless steel-309  
**NT7** stainless steel-309s  
**NT6** steel-cr23ni18  
**NT6** steel-cr25ni20  
**NT7** alloy-hk-40  
**NT7** stainless steel-310  
**NT6** steel-ni25cr20  
**NT7** stainless steel-20-25  
**NT6** steel-ni36cr12ti3al-l  
**NT6** timken alloys  
**NT5** chromium steels  
**NT6** chromium-molybdenum steels  
**NT7** chromium-nickel-molybdenum steels  
**NT8** alloy-m-813  
**NT8** steel-cr11ni10mo2ti-l  
**NT8** steel-cr15ni15motib  
**NT8** steel-cr16ni13monbv  
**NT8** steel-cr16ni15mo3nb  
**NT8** steel-cr16ni16monb  
**NT8** steel-cr16ni8mo2  
**NT9** stainless steel-16-8-2  
**NT8** steel-cr16ni9mo2  
**NT8** steel-cr17ni12mo3  
**NT9** stainless steel-316  
**NT8** steel-cr17ni12mo3-l  
**NT9** stainless steel-316l  
**NT9** stainless steel-zcnd17-13  
**NT8** steel-cr17ni12monb  
**NT8** steel-cr17ni13mo2ti  
**NT8** steel-cr17ni13mo3ti  
**NT8** steel-ni26cr15ti2moyalb  
**NT9** alloy-a-286  
**NT6** magnet steel-ks  
**NT6** miduale  
**NT6** stainless steel-406  
**NT6** steel-cr10mo2  
**NT6** steel-cr12  
**NT7** stainless steel-403  
**NT6** steel-cr12moniv  
**NT6** steel-cr12mov  
**NT7** alloy-ht-9

- NT6** steel-cr13  
**NT7** stainless steel-410  
**NT6** steel-cr13al  
**NT7** stainless steel-405  
**NT6** steel-cr16  
**NT7** stainless steel-430  
**NT6** steel-cr16ni  
**NT6** steel-cr17cu4ni4nb-1  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17mo  
**NT7** stainless steel-440  
**NT6** steel-cr17ni4mo3  
**NT6** steel-cr18  
**NT6** steel-cr25  
**NT7** stainless steel-446  
**NT6** steel-cr9mo  
**NT6** steel-cr9monbv  
**NT5** low carbon-high alloy steels  
**NT6** steel-cr11ni10mo2ti-1  
**NT6** steel-cr17cu4ni4nb-1  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17ni12mo3-1  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr18ni10-1  
**NT6** steel-cr19ni10-1  
**NT7** stainless steel-304l  
**NT6** steel-cr20ni11-1  
**NT7** stainless steel-308l  
**NT6** steel-ni36cr12ti3al-1  
**NT5** stainless steel-317  
**NT5** stainless steel-318  
**NT5** stainless steel-422  
**NT5** stainless steel-fv-548  
**NT5** stainless steel-jbk-75  
**NT5** stainless steel m-50  
**NT5** steel-cr21mn9ni6  
**NT6** stainless steel-21-6-9  
**NT5** sweetalloy  
**NT3** low alloy steels  
**NT4** steel-astm-a350  
**NT4** steel-astm-a387  
**NT4** steel-astm-a508  
**NT4** steel-astm-a533  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr2moninb  
**NT4** steel-cr2mov  
**NT4** steel-cr2nimov  
**NT4** steel-cr5mo  
**NT4** steel-cralnimo  
**NT4** steel-crmno  
**NT4** steel-crmov  
**NT4** steel-crmi  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-mnmo  
**NT5** steel-astm-a302  
**NT4** steel-mnnimo  
**NT5** steel-astm-a533-b  
**NT4** steel-mnnimov  
**NT4** steel-ni3cr  
**NT4** steel-ni3crmo  
**NT5** steel-astm-a543  
**NT4** steel-ni3crmov  
**NT4** steel-ni4crw  
**NT4** steel-nicr  
**NT4** steel-nicrmo  
**NT4** steel-nimocr  
**NT3** manganese steels  
**NT3** martensitic steels  
**NT4** maraging steels  
**NT4** steel-cr10mo2  
**NT4** steel-cr12  
**NT5** stainless steel-403  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr16ni  
**NT4** steel-cr17cu4ni4nb-1  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17mo  
**NT3** nickel steels  
**NT4** sweetalloy  
**NT3** steel-astm-a572  
**NT1** cesium alloys  
**NT2** cesium additions  
**NT2** cesium base alloys  
**NT1** corrosion resistant alloys  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802  
**NT2** alloy-mo99  
**NT3** alloy-tzm  
**NT3** alloy-zm-2a  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni45fe34cr20  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy xr  
**NT2** alloy-ni50mo32cr15si3  
**NT2** alloy-ni51cr48  
**NT3** inconel 671  
**NT2** alloy-ni53co19cr15mo5al4ti3  
**NT3** udimet 700  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni59cr30fe9  
**NT3** inconel 690  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni60fe24cr16  
**NT3** nichrome  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni62cr16mo15fe3  
**NT3** hastelloy s  
**NT2** alloy-ni65cr25mo10  
**NT3** nimonic 86  
**NT2** alloy-ni65mo28fe5  
**NT3** hastelloy b  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni74cr13al6mo4  
**NT3** inconel 713c  
**NT2** alloy-ni75cr12al6mo5  
**NT3** inconel 713lc  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** alloy-ni76cr20ti2  
**NT3** nimonic 80a  
**NT2** alloy-ni77cr20ti2  
**NT2** alloy-ra-333  
**NT2** alloy-zr98sn-2  
**NT3** zircaloy 2  
**NT2** alloy-zr98sn-4  
**NT3** zircaloy 4  
**NT2** colmonoy  
**NT2** heusler alloys  
**NT2** incoloy 901  
**NT2** rene 80  
**NT2** rene 95  
**NT2** steel-cd-4mcu  
**NT2** steel-cr11ni10mo2ti-1  
**NT2** steel-cr12  
**NT3** stainless steel-403  
**NT2** steel-cr12moniv  
**NT2** steel-cr12mov  
**NT3** alloy-ht-9  
**NT2** steel-cr13  
**NT3** stainless steel-410  
**NT2** steel-cr13al  
**NT3** stainless steel-405  
**NT2** steel-cr15ni15motib  
**NT2** steel-cr16  
**NT3** stainless steel-430  
**NT2** steel-cr16ni  
**NT2** steel-cr16ni13monbv  
**NT2** steel-cr16ni15mo3nb  
**NT2** steel-cr16ni16monb  
**NT2** steel-cr16ni8mo2  
**NT3** stainless steel-16-8-2  
**NT2** steel-cr17cu4ni4nb-1  
**NT3** stainless steel-17-4ph  
**NT2** steel-cr17mo  
**NT3** stainless steel-440  
**NT2** steel-cr17ni12mo3  
**NT3** stainless steel-316  
**NT2** steel-cr17ni12mo3-1  
**NT3** stainless steel-316l  
**NT3** stainless steel-zcnd17-13  
**NT2** steel-cr17ni12monb  
**NT2** steel-cr17ni13  
**NT2** steel-cr17ni13mo2ti  
**NT2** steel-cr17ni13mo3ti  
**NT2** steel-cr17ni4mo3  
**NT2** steel-cr17ni7  
**NT3** stainless steel-301  
**NT2** steel-cr18  
**NT2** steel-cr18ni10  
**NT3** stainless steel-18-10  
**NT2** steel-cr18ni10-1  
**NT2** steel-cr18ni10ti  
**NT3** stainless steel-321  
**NT2** steel-cr18ni11  
**NT3** steel-x6crni1811  
**NT2** steel-cr18ni11nb  
**NT3** stainless steel-347  
**NT2** steel-cr18ni11nbco  
**NT3** stainless steel-348  
**NT2** steel-cr18ni12  
**NT3** stainless steel-305  
**NT2** steel-cr18ni12ti  
**NT2** steel-cr18ni8  
**NT3** stainless steel-18-8  
**NT2** steel-cr18ni9  
**NT3** stainless steel-302  
**NT2** steel-cr18ni9ti  
**NT2** steel-cr19ni10

- NT3** stainless steel-304  
**NT2** steel-cr19ni10-l  
**NT3** stainless steel-304l  
**NT2** steel-cr20ni11  
**NT3** stainless steel-308  
**NT2** steel-cr20ni11-l  
**NT3** stainless steel-308l  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9  
**NT2** steel-cr23ni14  
**NT3** stainless steel-309  
**NT3** stainless steel-309s  
**NT2** steel-cr23ni18  
**NT2** steel-cr25  
**NT3** stainless steel-446  
**NT2** steel-cr25ni20  
**NT3** alloy-hk-40  
**NT3** stainless steel-310  
**NT2** steel-ni25cr20  
**NT3** stainless steel-20-25  
**NT2** steel-ni26cr15ti2mova1b  
**NT3** alloy-a-286  
**NT2** steel-ni36cr12ti3al-l  
**NT2** tribaloy 800  
**NT1** dilute alloys  
**NT1** francium alloys  
**NT2** francium additions  
**NT1** gallium alloys  
**NT2** gallium additions  
**NT2** gallium base alloys  
**NT1** germanium alloys  
**NT2** germanium additions  
**NT2** germanium base alloys  
**NT1** heat resisting alloys  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-d-979  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802  
**NT2** alloy-mo99  
**NT3** alloy-tzm  
**NT3** alloy-zm-2a  
**NT2** alloy-n-10m  
**NT2** alloy-n-9m  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy xr  
**NT2** alloy-ni50mo32cr15si3  
**NT2** alloy-ni51cr48  
**NT3** inconel 671  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni59cr30fe9  
**NT3** inconel 690  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni60fe24cr16  
**NT3** nichrome  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni62cr16mo15fe3  
**NT3** hastelloy s  
**NT2** alloy-ni65cr25mo10  
**NT3** nimonic 86  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni73cr12al6mo5  
**NT3** inconel 713lc  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** alloy-ni76cr20ti2  
**NT3** nimonic 80a  
**NT2** alloy-ni77cr20ti2  
**NT2** alloy-nt25a5  
**NT2** alloy-ra-333  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** alloy-zr97nb3  
**NT2** alloy-zr98sn-2  
**NT3** zircaloy 2  
**NT2** alloy-zr98sn-4  
**NT3** zircaloy 4  
**NT2** endure  
**NT2** incoloy 901  
**NT2** rene 80  
**NT2** rene 95  
**NT2** steel-cr12  
**NT3** stainless steel-403  
**NT2** steel-cr12moniv  
**NT2** steel-cr12mov  
**NT3** alloy-ht-9  
**NT2** steel-cr13  
**NT3** stainless steel-410  
**NT2** steel-cr13al  
**NT3** stainless steel-405  
**NT2** steel-cr15ni15motib  
**NT2** steel-cr16  
**NT3** stainless steel-430  
**NT2** steel-cr16ni  
**NT2** steel-cr16ni13monbv  
**NT2** steel-cr16ni15mo3nb  
**NT2** steel-cr16ni16monb  
**NT2** steel-cr16ni8mo2  
**NT3** stainless steel-16-8-2  
**NT2** steel-cr17cu4ni4nb-l  
**NT3** stainless steel-17-4ph  
**NT2** steel-cr17mo  
**NT3** stainless steel-440  
**NT2** steel-cr17ni12mo3  
**NT3** stainless steel-316  
**NT2** steel-cr17ni12mo3-l  
**NT3** stainless steel-316l  
**NT3** stainless steel-zcnd17-13  
**NT2** steel-cr17ni12monb  
**NT2** steel-cr17ni13  
**NT2** steel-cr17ni13mo2ti  
**NT2** steel-cr17ni13mo3ti  
**NT2** steel-cr17ni4mo3  
**NT2** steel-cr17ni7  
**NT3** stainless steel-301  
**NT2** steel-cr18ni10  
**NT3** stainless steel-18-10  
**NT2** steel-cr18ni10-l  
**NT2** steel-cr18ni10ti  
**NT3** stainless steel-321  
**NT2** steel-cr18ni11  
**NT3** steel-x6crni1811  
**NT2** steel-cr18ni11nb  
**NT3** stainless steel-347  
**NT2** steel-cr18ni11nbco  
**NT3** stainless steel-348  
**NT2** steel-cr18ni12  
**NT3** stainless steel-305  
**NT2** steel-cr18ni12ti  
**NT2** steel-cr18ni8  
**NT3** stainless steel-18-8  
**NT2** steel-cr18ni9  
**NT3** stainless steel-302  
**NT2** steel-cr18ni9ti  
**NT2** steel-cr19ni10  
**NT3** stainless steel-304  
**NT2** steel-cr19ni10-l  
**NT3** stainless steel-304l  
**NT2** steel-cr20ni11  
**NT3** stainless steel-308  
**NT2** steel-cr20ni11-l  
**NT3** stainless steel-308l  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9  
**NT2** steel-cr23ni14  
**NT3** stainless steel-309  
**NT3** stainless steel-309s  
**NT2** steel-cr23ni18  
**NT2** steel-cr25  
**NT3** stainless steel-446  
**NT2** steel-cr25ni20  
**NT3** alloy-hk-40  
**NT3** stainless steel-310  
**NT2** steel-ni25cr20  
**NT3** stainless steel-20-25  
**NT2** steel-ni26cr15ti2mova1b  
**NT3** alloy-a-286  
**NT2** steel-ni36cr12ti3al-l  
**NT2** tribaloy 800  
**NT1** dilute alloys  
**NT1** francium alloys  
**NT2** francium additions  
**NT1** gallium alloys  
**NT2** gallium additions  
**NT2** gallium base alloys  
**NT1** germanium alloys  
**NT2** germanium additions  
**NT2** germanium base alloys  
**NT1** heat resisting alloys  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-d-979  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802  
**NT2** alloy-mo99  
**NT3** alloy-tzm  
**NT3** alloy-zm-2a  
**NT2** alloy-n-10m  
**NT2** alloy-n-9m  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy xr  
**NT2** alloy-ni50mo32cr15si3  
**NT2** alloy-ni51cr48  
**NT3** inconel 671  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** steel-cr18ni10  
**NT3** stainless steel-18-10  
**NT2** steel-cr18ni10-l  
**NT2** steel-cr18ni10ti  
**NT3** stainless steel-321  
**NT2** steel-cr18ni11  
**NT3** steel-x6crni1811  
**NT2** steel-cr18ni11nb  
**NT3** stainless steel-347  
**NT2** steel-cr18ni11nbco  
**NT3** stainless steel-348  
**NT2** steel-cr18ni12  
**NT3** stainless steel-305  
**NT2** steel-cr18ni12ti  
**NT2** steel-cr18ni8  
**NT3** stainless steel-18-8  
**NT2** steel-cr18ni9  
**NT3** stainless steel-302  
**NT2** steel-cr18ni9ti  
**NT2** steel-cr19ni10  
**NT3** stainless steel-304  
**NT2** steel-cr19ni10-l  
**NT3** stainless steel-304l  
**NT2** steel-cr20ni11  
**NT3** stainless steel-308  
**NT2** steel-cr20ni11-l  
**NT3** stainless steel-308l  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9  
**NT2** steel-cr23ni14  
**NT3** stainless steel-309  
**NT3** stainless steel-309s  
**NT2** steel-cr23ni18  
**NT2** steel-cr25  
**NT3** stainless steel-446  
**NT2** steel-cr25ni20  
**NT3** alloy-hk-40  
**NT3** stainless steel-310  
**NT2** steel-cr2moninb  
**NT2** steel-cr2mov  
**NT2** steel-ni25cr20  
**NT3** stainless steel-20-25  
**NT2** steel-ni26cr15ti2mova1b  
**NT3** alloy-a-286  
**NT2** steel-nimocr  
**NT2** tophet  
**NT2** tribaloy 800  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**NT1** incoloy alloys  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** incoloy 901  
**NT1** indium alloys  
**NT2** indium additions  
**NT2** indium base alloys  
**NT1** intermetallic compounds  
**NT2** cementite  
**NT1** lead alloys  
**NT2** alloy-bi50pb25cd12sn12  
**NT3** wood metal  
**NT2** cerrobend alloys  
**NT2** lead additions  
**NT2** lead base alloys  
**NT3** terne-metal  
**NT2** lichtenberg alloy  
**NT2** newton-metal  
**NT2** ounce metal  
**NT2** rose-metal  
**NT1** lithium alloys  
**NT2** lithium additions  
**NT2** lithium base alloys

- NT1** magnesium alloys  
**NT2** duralinium  
**NT2** magnalium  
**NT2** magnesium additions  
**NT3** alloy-al95cu4  
**NT4** duralumin  
**NT3** bondur  
**NT3** zamak  
**NT2** magnesium base alloys  
**NT3** magnesium alloy-az31b  
**NT3** magnesium alloy-ek  
**NT3** magnesium alloy-ez  
**NT3** magnesium alloy-hk31a  
**NT3** magnesium alloy-zr  
**NT3** magnox  
**NT1** mercury alloys  
**NT2** mercury additions  
**NT2** mercury base alloys  
**NT1** nitrogen additions  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9  
**NT2** steel-nicrmo  
**NT1** phosphorus additions  
**NT1** polonium alloys  
**NT1** potassium alloys  
**NT2** potassium base alloys  
**NT1** rare earth alloys  
**NT2** cerium alloys  
**NT3** cerium additions  
**NT3** cerium base alloys  
**NT4** misch metal  
**NT2** dysprosium alloys  
**NT3** dysprosium additions  
**NT3** dysprosium base alloys  
**NT2** erbium alloys  
**NT3** erbium additions  
**NT3** erbium base alloys  
**NT2** europium alloys  
**NT3** europium additions  
**NT3** europium base alloys  
**NT2** gadolinium alloys  
**NT3** gadolinium additions  
**NT3** gadolinium base alloys  
**NT2** holmium alloys  
**NT3** holmium additions  
**NT3** holmium base alloys  
**NT2** lanthanum alloys  
**NT3** lanthanum additions  
**NT4** alloy-co36cr22ni22w15fe3  
**NT5** haynes 188 alloy  
**NT3** lanthanum base alloys  
**NT3** misch metal  
**NT2** lutetium alloys  
**NT3** lutetium additions  
**NT3** lutetium base alloys  
**NT2** magnesium alloy-ek  
**NT2** magnesium alloy-ez  
**NT2** neodymium alloys  
**NT3** neodymium additions  
**NT3** neodymium base alloys  
**NT2** praseodymium alloys  
**NT3** praseodymium base alloys  
**NT2** rare earth additions  
**NT3** cerium additions  
**NT3** dysprosium additions  
**NT3** erbium additions  
**NT3** europium additions  
**NT3** gadolinium additions  
**NT3** holmium additions  
**NT3** lanthanum additions  
**NT4** alloy-co36cr22ni22w15fe3  
**NT5** haynes 188 alloy  
**NT3** lutetium additions  
**NT3** neodymium additions  
**NT3** praseodymium additions  
**NT3** promethium additions  
**NT3** samarium additions  
**NT3** terbium additions  
**NT3** thulium additions  
**NT3** ytterbium additions  
**NT2** samarium alloys  
**NT3** samarium additions  
**NT3** samarium base alloys  
**NT2** terbium alloys  
**NT3** terbium additions  
**NT3** terbium base alloys  
**NT2** thulium alloys  
**NT3** thulium additions  
**NT3** thulium base alloys  
**NT2** ytterbium alloys  
**NT3** ytterbium base alloys  
**NT1** rubidium alloys  
**NT2** rubidium additions  
**NT2** rubidium base alloys  
**NT1** selenium alloys  
**NT2** selenium additions  
**NT1** silicon alloys  
**NT2** alloy-mo-re-1  
**NT2** alloy-ni50mo32cr15si3  
**NT2** alloy-ra-333  
**NT2** cast iron  
**NT2** colmonoy  
**NT2** duriron  
**NT2** silicon additions  
**NT3** alloy-al95cu4  
**NT4** duralumin  
**NT3** alloy-fe40ni35cr22  
**NT3** alloy-hs-31  
**NT3** alloy-n28t3  
**NT3** alloy-ni78cr21  
**NT3** alloy-ni80cr20  
**NT3** alloy-ni94mn3al2  
**NT4** alumel  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** aludur  
**NT3** ascology  
**NT3** bondur  
**NT3** discaloy  
**NT3** duranickel  
**NT3** miduale  
**NT3** ni-hard  
**NT3** stainless steel-zcnd17-13  
**NT3** steel-cr16ni9mo2  
**NT2** supertherm  
**NT2** tribaloy 800  
**NT1** sodium alloys  
**NT2** sodium additions  
**NT2** sodium base alloys  
**NT1** strontium alloys  
**NT2** strontium additions  
**NT1** sulfur additions  
**NT2** ni-hard  
**NT1** tellurium alloys  
**NT2** tellurium additions  
**NT1** thallium alloys  
**NT2** thallium additions  
**NT2** thallium base alloys  
**NT1** tin alloys  
**NT2** alloy-bi50pb25cd12sn12  
**NT3** wood metal  
**NT2** alloy-zr98sn-2  
**NT3** zircaloy 2  
**NT2** alloy-zr98sn-4  
**NT3** zircaloy 4  
**NT2** bronze  
**NT2** cerobend alloys  
**NT2** lichtenberg alloy  
**NT2** newton-metal  
**NT2** ounce metal  
**NT2** rose-metal  
**NT2** terne-metal  
**NT2** tin additions  
**NT3** zamak  
**NT2** tin base alloys  
**NT1** transition element alloys  
**NT2** chromium alloys  
**NT3** alloy-b-1900  
**NT3** alloy-co36cr22ni22w15fe3  
**NT4** haynes 188 alloy  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-co54cr20w15ni10  
**NT4** alloy-hs-25  
**NT4** haynes 25 alloy  
**NT3** alloy-co60cr30w4  
**NT4** stellite 6  
**NT3** alloy-d-979  
**NT3** alloy-fe40ni35cr22  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe46ni33cr21  
**NT4** incoloy 800  
**NT4** incoloy 802  
**NT3** alloy-in-102  
**NT3** alloy-khn50mbvyu  
**NT3** alloy-mar-m246  
**NT3** alloy-mn-21  
**NT3** alloy-mo-re-1  
**NT3** alloy-mp35n  
**NT3** alloy-ni41fe40cr16nb3  
**NT4** inconel 706  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni45fe34cr20  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr  
**NT3** alloy-ni50mo32cr15si3  
**NT3** alloy-ni51cr48  
**NT4** inconel 671  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni54cr22co13mo9  
**NT4** inconel 617  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni60fe24cr16  
**NT4** nichrome  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni61cr23fe14  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni65cr25mo10  
**NT4** nimonic 86  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc

- NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** alloy-ni77cr20ti2  
**NT3** alloy-ni78cr21  
**NT3** alloy-ni80cr20  
**NT3** alloy-ra-333  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-ti78cr11mo7al3  
**NT3** alloy-ti88mo8al3  
**NT3** alloy-ti91al5cr2  
**NT3** alloy-v-36  
**NT3** alloy-v87cr9fe3  
**NT3** ascology  
**NT3** chromium additions  
**NT4** alloy-ni65mo28fe5  
**NT5** hastelloy b  
**NT4** alloy-zr98sn-2  
**NT5** zircaloy 2  
**NT4** alloy-zr98sn-4  
**NT5** zircaloy 4  
**NT4** steel-crm0  
**NT4** steel-crmi  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-ni3cr  
**NT4** steel-nicr  
**NT4** steel-nicrmo  
**NT4** steel-nimocr  
**NT3** chromium base alloys  
**NT4** alloy-mo-re-2  
**NT3** chromium-nickel steels  
**NT4** alloy-d-9  
**NT4** carpenter  
**NT4** chromium-nickel-molybdenum steels  
**NT5** alloy-m-813  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2mova1b  
**NT6** alloy-a-286  
**NT4** durco  
**NT4** enduro  
**NT4** stainless steel-17-7ph  
**NT4** stainless steel-303  
**NT4** stainless steel-329  
**NT4** stainless steel-ph-15-7-mo  
**NT4** steel-cr17ni13  
**NT4** steel-cr17ni7  
**NT5** stainless steel-301  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr18ni10-1  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni11  
**NT5** steel-x6crni1811  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr18ni12  
**NT5** stainless steel-305  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni8  
**NT5** stainless steel-18-8  
**NT4** steel-cr18ni9  
**NT5** stainless steel-302  
**NT4** steel-cr18ni9ti  
**NT4** steel-cr19ni10  
**NT5** stainless steel-304  
**NT4** steel-cr19ni10-1  
**NT5** stainless steel-304l  
**NT4** steel-cr20ni11  
**NT5** stainless steel-308  
**NT4** steel-cr20ni11-1  
**NT5** stainless steel-308l  
**NT4** steel-cr23ni14  
**NT5** stainless steel-309  
**NT5** stainless steel-309s  
**NT4** steel-cr23ni18  
**NT4** steel-cr25ni20  
**NT5** alloy-hk-40  
**NT5** stainless steel-310  
**NT4** steel-ni25cr20  
**NT5** stainless steel-20-25  
**NT4** steel-ni36cr12ti3al-1  
**NT4** timken alloys  
**NT3** chromium steels  
**NT4** chromium-molybdenum steels  
**NT5** chromium-nickel-molybdenum steels  
**NT6** alloy-m-813  
**NT6** steel-cr11ni10mo2ti-1  
**NT6** steel-cr15ni15motib  
**NT6** steel-cr16ni13monbv  
**NT6** steel-cr16ni15mo3nb  
**NT6** steel-cr16ni16monb  
**NT6** steel-cr16ni8mo2  
**NT7** stainless steel-16-8-2  
**NT6** steel-cr16ni9mo2  
**NT6** steel-cr17ni12mo3  
**NT7** stainless steel-316  
**NT6** steel-cr17ni12mo3-1  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr17ni12monb  
**NT6** steel-cr17ni13mo2ti  
**NT6** steel-cr17ni13mo3ti  
**NT6** steel-ni26cr15ti2mova1b  
**NT7** alloy-a-286  
**NT4** magnet steel-ks  
**NT4** miduale  
**NT4** stainless steel-406  
**NT4** steel-cr10mo2  
**NT4** steel-cr12  
**NT5** stainless steel-403  
**NT4** steel-cr12moniv  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr13al  
**NT5** stainless steel-405  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr16ni  
**NT4** steel-cr17cu4ni4nb-1  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17mo  
**NT5** stainless steel-440  
**NT4** steel-cr17ni4mo3  
**NT4** steel-cr18  
**NT4** steel-cr25  
**NT5** stainless steel-446  
**NT4** steel-cr9mo  
**NT4** steel-cr9monbv  
**NT3** colmonoy  
**NT3** discaloy  
**NT3** ge 2541  
**NT3** hoskins 875  
**NT3** illium  
**NT3** incoloy 901  
**NT3** kanthal  
**NT3** konel  
**NT3** magnesium alloy-zr  
**NT3** misco metal  
**NT3** ni-hard  
**NT3** ni-o-nel  
**NT3** microbraz 50  
**NT3** nimonic 115  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** sicromo 9m  
**NT3** steel-cd-4mcu  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-cr5mo  
**NT3** steel-cralnimo  
**NT3** steel-crmov  
**NT3** steel-ni3crm0  
**NT4** steel-astm-a543  
**NT3** steel-ni3crm0v  
**NT3** steel-ni4crw  
**NT3** supertherm  
**NT3** sweetalloy  
**NT3** td-nickel chromium  
**NT3** tophet  
**NT3** tribaloy 400  
**NT3** tribaloy 800  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT3** vitallium  
**NT2** cobalt alloys  
**NT3** alloy-b-1900  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe53ni29co18  
**NT4** kovar  
**NT3** alloy-mar-m246  
**NT3** alloy-mp35n  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni54cr22co13mo9  
**NT4** inconel 617  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni65mo28fe5  
**NT4** hastelloy b  
**NT3** alloy-ra-333  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** alloy-yundk 25ba  
**NT3** alnico alloys  
**NT3** carboloy  
**NT3** cobalt additions  
**NT4** alloy-ni43fe33cr16mo3

- NT5 nimonic pe16  
 NT4 alloy-ni62cr16mo15fe3  
 NT5 hastelloy s  
 NT4 steel-cr18ni11nbco  
 NT5 stainless steel-348  
 NT3 cobalt base alloys  
 NT4 alloy-co43cr20fe18ni13w3  
 NT5 havar  
 NT4 alloy-co50fe50  
 NT5 permendur  
 NT4 alloy-co52fe35v10  
 NT4 haynes alloys  
 NT5 alloy-co36cr22ni22w15fe3  
 NT6 haynes 188 alloy  
 NT5 alloy-co54cr20w15ni10  
 NT6 alloy-hs-25  
 NT6 haynes 25 alloy  
 NT5 alloy-co60cr30w4  
 NT6 stellite 6  
 NT4 mar-m509 alloys  
 NT4 stellite  
 NT5 alloy-co54cr20w15ni10  
 NT6 alloy-hs-25  
 NT6 haynes 25 alloy  
 NT5 alloy-co60cr30w4  
 NT6 stellite 6  
 NT5 alloy-hs-31  
 NT4 tribaloy 400  
 NT4 tribaloy 800  
 NT3 cunico  
 NT3 hiperco  
 NT3 kanthal  
 NT3 konel  
 NT3 magnet steel-ks  
 NT3 nimonic 115  
 NT3 rene-100  
 NT3 rene 80  
 NT3 rene 95  
 NT3 supertherm  
 NT3 timken alloys  
 NT3 udimet alloys  
 NT4 alloy-ni53co19cr15mo5al4ti3  
 NT5 udimet 700  
 NT4 udimet 500  
 NT3 vitallium  
 NT2 copper alloys  
 NT3 alloy-al95cu4  
 NT4 duralumin  
 NT3 alloy-ni43fe30cr22mo3  
 NT4 incoloy 825  
 NT3 alloy-ni66cu32  
 NT4 monel 400  
 NT3 alloy-yundk 25ba  
 NT3 bondur  
 NT3 copper additions  
 NT4 alloy-ni43fe33cr16mo3  
 NT5 nimonic pe16  
 NT4 alloy-ni60co15cr10al6ti5mo3  
 NT5 alloy-in-100  
 NT4 duranickel  
 NT4 steel-cr2mov  
 NT4 steel-cr2nimov  
 NT4 steel-crmov  
 NT4 steel-crni  
 NT4 steel-mncumo  
 NT5 steel-astm-a537  
 NT4 steel-ni3cr  
 NT4 steel-ni4crw  
 NT4 steel-nicr  
 NT4 steel-nicrmo  
 NT3 copper base alloys  
 NT4 alloy-cu52ni47  
 NT5 constantan  
 NT4 alloy-cu70ni30  
 NT4 alloy-cu90ni10  
 NT4 brass  
 NT5 brass-alpha  
 NT5 brass-beta  
 NT4 bronze  
 NT4 heusler alloys  
 NT4 manganin  
 NT4 muntz metal  
 NT4 nickeline alloy  
 NT4 ounce metal  
 NT4 tungsten bronze  
 NT3 cunico  
 NT3 heddur  
 NT3 illium  
 NT3 lynite  
 NT3 magnalium  
 NT3 ni-o-nel  
 NT3 steel-cd-4mcu  
 NT3 steel-cr17cu4ni4nb-l  
 NT4 stainless steel-17-4ph  
 NT3 steel-in-787  
 NT3 zamak  
 NT2 gold alloys  
 NT3 gold additions  
 NT3 gold base alloys  
 NT4 palau  
 NT2 hafnium alloys  
 NT3 alloy-c-103  
 NT3 alloy-ta90w8hf  
 NT4 tantalum alloy-t111  
 NT3 hafnium additions  
 NT4 astar 811c  
 NT3 hafnium base alloys  
 NT2 iron alloys  
 NT3 alloy-co36cr22ni22w15fe3  
 NT4 haynes 188 alloy  
 NT3 alloy-co43cr20fe18ni13w3  
 NT4 havar  
 NT3 alloy-co52fe35v10  
 NT3 alloy-co54cr20w15ni10  
 NT4 alloy-hs-25  
 NT4 haynes 25 alloy  
 NT3 alloy-co60cr30w4  
 NT4 stellite 6  
 NT3 alloy-hs-31  
 NT3 alloy-in-102  
 NT3 alloy-khn50mbvyu  
 NT3 alloy-mo-re-1  
 NT3 alloy-ni41fe40cr16nb3  
 NT4 incoloy 706  
 NT3 alloy-ni43fe30cr22mo3  
 NT4 incoloy 825  
 NT3 alloy-ni43fe33cr16mo3  
 NT4 nimonic pe16  
 NT3 alloy-ni45fe34cr20  
 NT3 alloy-ni49cr22fe18mo9  
 NT4 hastelloy x  
 NT3 alloy-ni50co20cr15al5mo5  
 NT4 nimonic 105  
 NT3 alloy-ni50cr22fe18mo9  
 NT4 hastelloy xr  
 NT3 alloy-ni53cr19fe19nb5mo3  
 NT4 incoloy 718  
 NT3 alloy-ni54mo17cr16fe6w4  
 NT4 hastelloy c  
 NT3 alloy-ni58cr20co14mo4ti3  
 NT4 waspaloy  
 NT3 alloy-ni59cr20co17ti2  
 NT3 alloy-ni59cr30fe9  
 NT4 incoloy 690  
 NT3 alloy-ni60fe24cr16  
 NT4 nichrome  
 NT3 alloy-ni61cr22mo9nb4fe3  
 NT4 incoloy 625  
 NT3 alloy-ni61cr23fe14  
 NT3 alloy-ni62cr16mo15fe3  
 NT4 hastelloy s  
 NT3 alloy-ni66cu32  
 NT4 monel 400  
 NT3 alloy-ni70mo17cr7fe5  
 NT4 hastelloy n  
 NT4 inor-8  
 NT3 alloy-ni73cr15fe7ti3  
 NT4 incoloy x750  
 NT3 alloy-ni76cr15fe8  
 NT4 inconel 600  
 NT3 alloy-ni77cr20ti2  
 NT3 alloy-ni78cr21  
 NT3 alloy-ni79fe16mo4  
 NT3 alloy-ra-333  
 NT3 alloy-s-816  
 NT3 alloy-v-36  
 NT3 alloy-v87cr9fe3  
 NT3 alloy-yundk 25ba  
 NT3 austenite  
 NT3 colmonoy  
 NT3 ferrite  
 NT3 incoloy 901  
 NT3 iron additions  
 NT4 alloy-al95cu4  
 NT5 duralumin  
 NT4 alloy-ni46cr23co19ti5al4  
 NT5 alloy-in-939  
 NT4 alloy-ni60co15cr10al6ti5mo3  
 NT5 alloy-in-100  
 NT4 alloy-ni73cr20mn3nb3  
 NT5 inconel 82  
 NT4 alloy-ni80cr20  
 NT4 alloy-ti88mo8al3  
 NT4 alloy-ti90al6mo3  
 NT4 alloy-ti90al6v4  
 NT4 alloy-ti91al4mo3  
 NT4 alloy-ti91al5cr2  
 NT4 alloy-zr98sn-2  
 NT5 zircaloy 2  
 NT4 alloy-zr98sn-4  
 NT5 zircaloy 4  
 NT4 aludur  
 NT4 duranickel  
 NT4 rene 95  
 NT4 zamak  
 NT3 iron base alloys  
 NT4 alloy-co50fe50  
 NT5 permendur  
 NT4 alloy-fe40ni35cr22  
 NT4 alloy-fe44ni33cr21  
 NT5 incoloy 800h  
 NT4 alloy-fe46ni33cr21  
 NT5 incoloy 800  
 NT5 incoloy 802  
 NT4 alloy-fe53ni29co18  
 NT5 kovar  
 NT4 alnico alloys  
 NT4 ascology  
 NT4 cast iron  
 NT4 discaloy  
 NT4 duriron  
 NT4 ge 2541  
 NT4 hiperco  
 NT4 hoskins 875  
 NT4 invar  
 NT4 kanthal  
 NT4 sicromo 9m  
 NT4 steel-cd-4mcu  
 NT4 steels  
 NT5 austenitic steels  
 NT6 steel-cr15ni15motib  
 NT6 steel-cr16ni13monbv  
 NT6 steel-cr16ni15mo3nb  
 NT6 steel-cr16ni16monb  
 NT6 steel-cr16ni8mo2  
 NT7 stainless steel-16-8-2  
 NT6 steel-cr17ni12mo3  
 NT7 stainless steel-316  
 NT6 steel-cr17ni12mo3-l  
 NT7 stainless steel-316l  
 NT7 stainless steel-zcnd17-13  
 NT6 steel-cr17ni12monb  
 NT6 steel-cr17ni13  
 NT6 steel-cr17ni13mo2ti  
 NT6 steel-cr17ni13mo3ti  
 NT6 steel-cr17ni7  
 NT7 stainless steel-301



- NT6** steel-cr18ni10  
**NT7** stainless steel-18-10  
**NT6** steel-cr18ni10-l  
**NT6** steel-cr18ni10ti  
**NT7** stainless steel-321  
**NT6** steel-cr18ni11  
**NT7** steel-x6crni1811  
**NT6** steel-cr18ni11nb  
**NT7** stainless steel-347  
**NT6** steel-cr18ni11nbco  
**NT7** stainless steel-348  
**NT6** steel-cr18ni12  
**NT7** stainless steel-305  
**NT6** steel-cr18ni12ti  
**NT6** steel-cr18ni8  
**NT7** stainless steel-18-8  
**NT6** steel-cr18ni9  
**NT7** stainless steel-302  
**NT6** steel-cr18ni9ti  
**NT6** steel-cr19ni10  
**NT7** stainless steel-304  
**NT6** steel-cr19ni10-l  
**NT7** stainless steel-304l  
**NT6** steel-cr20ni11  
**NT7** stainless steel-308  
**NT6** steel-cr20ni11-l  
**NT7** stainless steel-308l  
**NT6** steel-cr21mn9ni6  
**NT7** stainless steel-21-6-9  
**NT6** steel-cr23ni14  
**NT7** stainless steel-309  
**NT7** stainless steel-309s  
**NT6** steel-cr23ni18  
**NT6** steel-cr25ni20  
**NT7** alloy-hk-40  
**NT7** stainless steel-310  
**NT6** steel-ni25cr20  
**NT7** stainless steel-20-25  
**NT6** steel-ni26cr15ti2mova1b  
**NT7** alloy-a-286  
**NT5** carbon steels  
**NT6** steel-astm-a105  
**NT6** steel-astm-a106  
**NT6** steel-astm-a212  
**NT6** steel-astm-a285  
**NT6** steel-astm-a516  
**NT6** steel-astm-a533-b  
**NT6** steel-in-787  
**NT6** steel-sae-1045  
**NT5** croloy  
**NT6** steel-cr13  
**NT7** stainless steel-410  
**NT6** steel-cr16  
**NT7** stainless steel-430  
**NT6** steel-cr18ni10  
**NT7** stainless steel-18-10  
**NT6** steel-cr2mo  
**NT7** steel-astm-a542  
**NT6** steel-cr5mo  
**NT5** ferritic steels  
**NT6** steel-cr12moniv  
**NT6** steel-cr13al  
**NT7** stainless steel-405  
**NT6** steel-cr16  
**NT7** stainless steel-430  
**NT6** steel-cr25  
**NT7** stainless steel-446  
**NT6** steel-cr9mo  
**NT6** steel-cr9monbv  
**NT5** high alloy steels  
**NT6** stainless steels  
**NT7** chromium-nickel steels  
**NT8** alloy-d-9  
**NT8** carpenter  
**NT8** chromium-nickel-molybdenum steels  
**NT9** alloy-m-813  
**NT9** steel-cr11ni10mo2ti-l  
**NT9** steel-cr15ni15motib  
**NT9** steel-cr16ni13monbv  
**NT9** steel-cr16ni15mo3nb  
**NT9** steel-cr16ni16monb  
**\*NT9** steel-cr16ni8mo2  
**NT9** steel-cr16ni9mo2  
**\*NT9** steel-cr17ni12mo3  
**\*NT9** steel-cr17ni12mo3-l  
**NT9** steel-cr17ni12monb  
**NT9** steel-cr17ni13mo2ti  
**NT9** steel-cr17ni13mo3ti  
**\*NT9** steel-ni26cr15ti2mova1b  
**NT8** durco  
**NT8** enduro  
**NT8** stainless steel-17-7ph  
**NT8** stainless steel-303  
**NT8** stainless steel-329  
**NT8** stainless steel-ph-15-7-mo  
**NT8** steel-cr17ni13  
**NT8** steel-cr17ni7  
**NT9** stainless steel-301  
**NT8** steel-cr18ni10  
**NT9** stainless steel-18-10  
**NT8** steel-cr18ni10-l  
**NT8** steel-cr18ni10ti  
**NT9** stainless steel-321  
**NT8** steel-cr18ni11  
**NT9** steel-x6crni1811  
**NT8** steel-cr18ni11nb  
**NT9** stainless steel-347  
**NT8** steel-cr18ni11nbco  
**NT9** stainless steel-348  
**NT8** steel-cr18ni12  
**NT9** stainless steel-305  
**NT8** steel-cr18ni12ti  
**NT8** steel-cr18ni8  
**NT9** stainless steel-18-8  
**NT8** steel-cr18ni9  
**NT9** stainless steel-302  
**NT8** steel-cr18ni9ti  
**NT8** steel-cr19ni10  
**NT9** stainless steel-304  
**NT8** steel-cr19ni10-l  
**NT9** stainless steel-304l  
**NT8** steel-cr20ni11  
**NT9** stainless steel-308  
**NT8** steel-cr20ni11-l  
**NT9** stainless steel-308l  
**NT8** steel-cr23ni14  
**NT9** stainless steel-309  
**NT9** stainless steel-309s  
**NT8** steel-cr23ni18  
**NT8** steel-cr25ni20  
**NT9** alloy-hk-40  
**NT9** stainless steel-310  
**NT8** steel-ni25cr20  
**NT9** stainless steel-20-25  
**NT8** steel-ni36cr12ti3al-l  
**NT8** timken alloys  
**NT7** chromium steels  
**NT8** chromium-molybdenum steels  
**\*NT9** chromium-nickel-molybdenum steels  
**NT8** magnet steel-ks  
**NT8** miduale  
**NT8** stainless steel-406  
**NT8** steel-cr10mo2  
**NT8** steel-cr12  
**NT9** stainless steel-403  
**NT8** steel-cr12moniv  
**NT8** steel-cr12mov  
**NT9** alloy-ht-9  
**NT8** steel-cr13  
**NT9** stainless steel-410  
**NT8** steel-cr13al  
**NT9** stainless steel-405  
**NT8** steel-cr16  
**NT9** stainless steel-430  
**NT8** steel-cr16ni  
**NT8** steel-cr17cu4ni4nb-l  
**NT9** stainless steel-17-4ph  
**NT8** steel-cr17mo  
**NT9** stainless steel-440  
**NT8** steel-cr17ni4mo3  
**NT8** steel-cr18  
**NT8** steel-cr25  
**NT9** stainless steel-446  
**NT8** steel-cr9mo  
**NT8** steel-cr9monbv  
**NT7** low carbon-high alloy steels  
**NT8** steel-cr11ni10mo2ti-l  
**NT8** steel-cr17cu4ni4nb-l  
**NT9** stainless steel-17-4ph  
**NT8** steel-cr17ni12mo3-l  
**NT9** stainless steel-316l  
**NT9** stainless steel-zcnd17-13  
**NT8** steel-cr18ni10-l  
**NT8** steel-cr19ni10-l  
**NT9** stainless steel-304l  
**NT8** steel-cr20ni11-l  
**NT9** stainless steel-308l  
**NT8** steel-ni36cr12ti3al-l  
**NT7** stainless steel-317  
**NT7** stainless steel-318  
**NT7** stainless steel-422  
**NT7** stainless steel-fv-548  
**NT7** stainless steel-jbk-75  
**NT7** stainless steel m-50  
**NT7** steel-cr21mn9ni6  
**NT8** stainless steel-21-6-9  
**NT7** sweetalloy  
**NT5** low alloy steels  
**NT6** steel-astm-a350  
**NT6** steel-astm-a387  
**NT6** steel-astm-a508  
**NT6** steel-astm-a533  
**NT6** steel-cr2mo  
**NT7** steel-astm-a542  
**NT6** steel-cr2moninb  
**NT6** steel-cr2mov  
**NT6** steel-cr2nimov  
**NT6** steel-cr5mo  
**NT6** steel-cralnimo  
**NT6** steel-crmo  
**NT6** steel-crmov  
**NT6** steel-crni  
**NT6** steel-mncumo  
**NT7** steel-astm-a537  
**NT6** steel-mnmo  
**NT7** steel-astm-a302  
**NT6** steel-mnnimo  
**NT7** steel-astm-a533-b  
**NT6** steel-mnnimov  
**NT6** steel-ni3cr  
**NT6** steel-ni3crmo  
**NT7** steel-astm-a543  
**NT6** steel-ni3crmov  
**NT6** steel-ni4crw  
**NT6** steel-nicr  
**NT6** steel-nicrmo  
**NT6** steel-nimocr  
**NT5** manganese steels  
**NT5** martensitic steels  
**NT6** maraging steels  
**NT6** steel-cr10mo2  
**NT6** steel-cr12  
**NT7** stainless steel-403  
**NT6** steel-cr12mov  
**NT7** alloy-ht-9  
**NT6** steel-cr13  
**NT7** stainless steel-410  
**NT6** steel-cr16ni  
**NT6** steel-cr17cu4ni4nb-l  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17mo  
**NT7** stainless steel-440

- NT6** steel-cr18  
**NT5** nickel steels  
**NT6** sweetalloy  
**NT5** steel-astm-a572  
**NT3** konel  
**NT3** lynite  
**NT3** martensite  
**NT3** misco metal  
**NT3** ni-hard  
**NT3** orthonol  
**NT3** permalloy  
**NT3** rene 41  
**NT3** supertherm  
**NT3** tribaloy 400  
**NT3** tribaloy 800  
**NT2** manganese alloys  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-mo-re-1  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni94mn3al2  
**NT4** alumel  
**NT3** alloy-s-816  
**NT3** heusler alloys  
**NT3** manganese additions  
**NT4** alloy-al95cu4  
**NT5** duralumin  
**NT4** alloy-fe40ni35cr22  
**NT4** alloy-fe53ni29co18  
**NT5** kovar  
**NT4** alloy-hs-31  
**NT4** alloy-n28t3  
**NT4** alloy-ni66cu32  
**NT5** monel 400  
**NT4** alloy-ni78cr21  
**NT4** alloy-v-36  
**NT4** ascology  
**NT4** bondur  
**NT4** discaloy  
**NT4** duranickel  
**NT4** duriron  
**NT4** magnesium alloy-az31b  
**NT4** miduale  
**NT4** ni-hard  
**NT4** steel-cr16ni9mo2  
**NT3** manganese base alloys  
**NT3** manganese steels  
**NT3** manganin  
**NT3** stainless steel-zcnd17-13  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-mnmo  
**NT4** steel-astm-a302  
**NT3** steel-mnnimo  
**NT4** steel-astm-a533-b  
**NT3** steel-mnnimov  
**NT2** molybdenum alloys  
**NT3** alloy-b-1900  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-d-979  
**NT3** alloy-in-102  
**NT3** alloy-khn50mbvyu  
**NT3** alloy-mar-m246  
**NT3** alloy-mn-21  
**NT3** alloy-mp35n  
**NT3** alloy-n-10m  
**NT3** alloy-n-9m  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr  
**NT3** alloy-ni50mo32cr15si3  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni54cr22co13mo9  
**NT4** inconel 617  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni65cr25mo10  
**NT4** nimonic 86  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni79fe16mo4  
**NT3** alloy-nx-188  
**NT3** alloy-ra-333  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-ti78cr11mo7al3  
**NT3** alloy-ti88mo8al3  
**NT3** alloy-ti89al6mo3  
**NT3** alloy-ti90al6mo3  
**NT3** alloy-ti90mo7al2  
**NT3** alloy-ti91al4mo3  
**NT3** alloy-ti91al5cr2  
**NT3** alloy-v-36  
**NT3** chlorimet  
**NT3** chromium-molybdenum steels  
**NT4** chromium-nickel-molybdenum steels  
**NT5** alloy-m-813  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2movalb  
**NT6** alloy-a-286  
**NT3** discaloy  
**NT3** illium  
**NT3** incoloy 901  
**NT3** molybdenum additions  
**NT4** alloy-ti90al6  
**NT4** steel-cr12moniv  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr17mo  
**NT5** stainless steel-440  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr2moninb  
**NT4** steel-cr2mov  
**NT4** steel-cr2nimov  
**NT4** steel-cr5mo  
**NT4** steel-cr9mo  
**NT4** steel-cralnimo  
**NT4** steel-crmco  
**NT4** steel-crmov  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-mnmo  
**NT5** steel-astm-a302  
**NT4** steel-mnnimo  
**NT5** steel-astm-a533-b  
**NT4** steel-mnnimov  
**NT4** steel-ni3crmo  
**NT5** steel-astm-a543  
**NT4** steel-nimocr  
**NT3** molybdenum base alloys  
**NT4** alloy-mo99  
**NT5** alloy-tzm  
**NT5** alloy-zm-2a  
**NT4** alloy-mo99b  
**NT3** ni-o-nel  
**NT3** nimonic 115  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** sicromo 9m  
**NT3** stainless steel m-50  
**NT3** steel-cd-4mcu  
**NT3** steel-cr10mo2  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr9monbv  
**NT3** steel-in-787  
**NT3** timken alloys  
**NT3** tribaloy 400  
**NT3** tribaloy 800  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT3** vitallium  
**NT2** nickel alloys  
**NT3** alloy-co36cr22ni22w15fe3  
**NT4** haynes 188 alloy  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-co54cr20w15ni10  
**NT4** alloy-hs-25  
**NT4** haynes 25 alloy  
**NT3** alloy-co60cr30w4  
**NT4** stellite 6  
**NT3** alloy-cu52ni47  
**NT4** constantan  
**NT3** alloy-d-979  
**NT3** alloy-fe40ni35cr22  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe46ni33cr21  
**NT4** incoloy 800  
**NT4** incoloy 802  
**NT3** alloy-fe53ni29co18  
**NT4** kovar  
**NT3** alloy-hs-31  
**NT3** alloy-mo-re-1  
**NT3** alloy-mp35n  
**NT3** alloy-n28t3  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** alloy-yundk 25ba  
**NT3** alnico alloys  
**NT3** ascology  
**NT3** chromium-nickel steels  
**NT4** alloy-d-9

- NT4** carpenter  
**NT4** chromium-nickel-molybdenum steels  
**NT5** alloy-m-813  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2movalb  
**NT6** alloy-a-286  
**NT4** durco  
**NT4** enduro  
**NT4** stainless steel-17-7ph  
**NT4** stainless steel-303  
**NT4** stainless steel-329  
**NT4** stainless steel-ph-15-7-mo  
**NT4** steel-cr17ni13  
**NT4** steel-cr17ni7  
**NT5** stainless steel-301  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr18ni10-1  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni11  
**NT5** steel-x6crni1811  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr18ni12  
**NT5** stainless steel-305  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni8  
**NT5** stainless steel-18-8  
**NT4** steel-cr18ni9  
**NT5** stainless steel-302  
**NT4** steel-cr18ni9ti  
**NT4** steel-cr19ni10  
**NT5** stainless steel-304  
**NT4** steel-cr19ni10-1  
**NT5** stainless steel-304l  
**NT4** steel-cr20ni11  
**NT5** stainless steel-308  
**NT4** steel-cr20ni11-1  
**NT5** stainless steel-308l  
**NT4** steel-cr23ni14  
**NT5** stainless steel-309  
**NT5** stainless steel-309s  
**NT4** steel-cr23ni18  
**NT4** steel-cr25ni20  
**NT5** alloy-hk-40  
**NT5** stainless steel-310  
**NT4** steel-ni25cr20  
**NT5** stainless steel-20-25  
**NT4** steel-ni36cr12ti3al-1  
**NT4** timken alloys  
**NT3** cunico  
**NT3** discaloy  
**NT3** invar  
**NT3** manganin  
**NT3** misco metal  
**NT3** ni-hard  
**NT3** ni-o-nel  
**NT3** nickel additions  
**NT4** alloy-zr98sn-2  
**NT5** zircaloy 2  
**NT4** ounce metal  
**NT4** steel-cr12moniv  
**NT4** steel-cr2moninb  
**NT4** steel-cr2mov  
**NT4** steel-cralnimo  
**NT4** steel-crmov  
**NT4** steel-crmov  
**NT4** steel-crni  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-mnnimo  
**NT5** steel-astm-a533-b  
**NT4** steel-nimocr  
**NT3** nickel base alloys  
**NT4** alloy-b-1900  
**NT4** alloy-in-102  
**NT4** alloy-in-853  
**NT4** alloy-mar-m246  
**NT4** alloy-mm-21  
**NT4** alloy-mo-re-2  
**NT4** alloy-ni43fe30cr22mo3  
**NT5** incoloy 825  
**NT4** alloy-ni45fe34cr20  
**NT4** alloy-ni50mo32cr15si3  
**NT4** alloy-ni55co17cr15mo5al4ti4  
**NT5** astroloy  
**NT4** alloy-ni55cr19co11mo10ti3  
**NT5** rene 41  
**NT4** alloy-ni58cr20co14mo4ti3  
**NT5** waspaloy  
**NT4** alloy-ni77cr20ti2  
**NT4** alloy-ni78cr21  
**NT4** alloy-ni79fe16mo4  
**NT4** alloy-ni94mn3al2  
**NT5** alumel  
**NT4** alloy-nx-188  
**NT4** alloy-ra-333  
**NT4** chlorimet  
**NT4** chromel  
**NT5** alloy-ni60fe24cr16  
**NT6** nichrome  
**NT5** alloy-ni80cr20  
**NT4** colmonoy  
**NT4** duranickel  
**NT4** hastelloys  
**NT5** alloy-ni49cr22fe18mo9  
**NT6** hastelloy x  
**NT5** alloy-ni50cr22fe18mo9  
**NT6** hastelloy xr  
**NT5** alloy-ni54mo17cr16fe6w4  
**NT6** hastelloy c  
**NT5** alloy-ni62cr16mo15fe3  
**NT6** hastelloy s  
**NT5** alloy-ni65mo28fe5  
**NT6** hastelloy b  
**NT5** alloy-ni70mo17cr7fe5  
**NT6** hastelloy n  
**NT6** inor-8  
**NT4** illium  
**NT4** incoloy 901  
**NT4** inconel alloys  
**NT5** alloy-ni41fe40cr16nb3  
**NT6** inconel 706  
**NT5** alloy-ni46cr23co19ti5al4  
**NT6** alloy-in-939  
**NT5** alloy-ni51cr48  
**NT6** inconel 671  
**NT5** alloy-ni53cr19fe19nb5mo3  
**NT6** inconel 718  
**NT5** alloy-ni54cr22co13mo9  
**NT6** inconel 617  
**NT5** alloy-ni59cr30fe9  
**NT6** inconel 690  
**NT5** alloy-ni60co15cr10al6ti5mo3  
**NT6** alloy-in-100  
**NT5** alloy-ni61cr16co9al3ti3w3  
**NT6** alloy-in-738  
**NT5** alloy-ni61cr22mo9nb4fe3  
**NT6** inconel 625  
**NT5** alloy-ni61cr23fe14  
**NT5** alloy-ni73cr15fe7ti3  
**NT6** inconel x750  
**NT5** alloy-ni73cr20mn3nb3  
**NT6** inconel 82  
**NT5** alloy-ni74cr13al6mo4  
**NT6** inconel 713c  
**NT5** alloy-ni75cr12al6mo5  
**NT6** inconel 713lc  
**NT5** alloy-ni76cr15fe8  
**NT6** inconel 600  
**NT5** inconel 700  
**NT5** inconel 738  
**NT5** inconel 739  
**NT4** konel  
**NT4** monel  
**NT5** alloy-ni66cu32  
**NT6** monel 400  
**NT4** microbraz 50  
**NT4** nimonic  
**NT5** alloy-ni43fe33cr16mo3  
**NT6** nimonic pe16  
**NT5** alloy-ni50co20cr15al5mo5  
**NT6** nimonic 105  
**NT5** alloy-ni59cr20co17ti2  
**NT5** alloy-ni65cr25mo10  
**NT6** nimonic 86  
**NT5** alloy-ni76cr15fe8  
**NT6** inconel 600  
**NT5** alloy-ni76cr20ti2  
**NT6** nimonic 80a  
**NT5** nimonic 115  
**NT5** nimonic 115a  
**NT4** rene-100  
**NT4** rene 80  
**NT4** rene 95  
**NT4** td-nickel chromium  
**NT4** tophet  
**NT4** udimet alloys  
**NT5** alloy-ni53co19cr15mo5al4ti3  
**NT6** udimet 700  
**NT5** udimet 500  
**NT3** nickel steels  
**NT4** sweetalloy  
**NT3** nickeline alloy  
**NT3** orthonol  
**NT3** permalloy  
**NT3** stainless steel-jbk-75  
**NT3** steel-cd-4mcu  
**NT3** steel-cr16ni  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-cr2nimov  
**NT3** steel-in-787  
**NT3** steel-mnnimov  
**NT3** steel-ni3cr  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT4** steel-ni4crw  
**NT3** steel-nicr  
**NT3** steel-nicrmo  
**NT3** supertherm  
**NT3** niobium alloys  
**NT3** alloy-in-102  
**NT3** alloy-khn50mbvyyu  
**NT3** alloy-mn-21  
**NT3** alloy-ni41fe40cr16nb3  
**NT4** inconel 706  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni74cr13al6mo4

- NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-u90nb7zr3  
**NT3** alloy-v-36  
**NT3** alloy-zr97nb3  
**NT3** niobium additions  
**NT4** alloy-ni46cr23co19ti5al4  
**NT4** alloy-ni46cr23co19ti5al4  
**NT5** alloy-in-939  
**NT4** alloy-ni61cr16co9al3ti3w3  
**NT5** alloy-in-738  
**NT4** alloy-ni73cr15fe7ti3  
**NT5** inconel x750  
**NT4** alloy-yundk 25ba  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr17cu4ni4nb-l  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr18ni1nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni1nbc  
**NT5** stainless steel-348  
**NT4** steel-cr2moninb  
**NT4** steel-cr9monbv  
**NT3** niobium base alloys  
**NT4** alloy-c-103  
**NT4** alloy-n-10m  
**NT4** alloy-n-9m  
**NT4** alloy-nt25a5  
**NT3** rene 95  
**NT3** steel-in-787  
**NT2** platinum metal alloys  
**NT3** iridium alloys  
**NT4** iridium additions  
**NT4** iridium base alloys  
**NT3** osmium alloys  
**NT4** osmium additions  
**NT4** osmium base alloys  
**NT3** palladium alloys  
**NT4** palau  
**NT4** palladium base alloys  
**NT3** platinum alloys  
**NT4** platinum base alloys  
**NT3** rhodium alloys  
**NT4** rhodium additions  
**NT4** rhodium base alloys  
**NT3** ruthenium alloys  
**NT4** ruthenium additions  
**NT4** ruthenium base alloys  
**NT2** rhenium alloys  
**NT3** rhenium additions  
**NT3** rhenium base alloys  
**NT2** scandium alloys  
**NT3** scandium additions  
**NT3** scandium base alloys  
**NT2** silver alloys  
**NT3** silver additions  
**NT3** silver base alloys  
**NT2** tantalum alloys  
**NT3** alloy-b-1900  
**NT3** alloy-c-103  
**NT3** alloy-mar-m246  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** carboloy  
**NT3** tantalum additions  
**NT4** alloy-n-10m  
**NT3** tantalum base alloys  
**NT4** alloy-ta90w8hf  
**NT5** tantalum alloy-t111  
**NT4** astar 811c  
**NT4** tantalum alloy-t222  
**NT2** technetium alloys  
**NT3** technetium additions  
**NT3** technetium base alloys  
**NT2** titanium alloys  
**NT3** alloy-b-1900  
**NT3** alloy-c-103  
**NT3** alloy-d-979  
**NT3** alloy-in-853  
**NT3** alloy-m-813  
**NT3** alloy-mar-m246  
**NT3** alloy-n28t3  
**NT3** alloy-ni41fe40cr16nb3  
**NT4** inconel 706  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** alloy-ni77cr20ti2  
**NT3** alloy-nt25a5  
**NT3** carboloy  
**NT3** discaloy  
**NT3** incoloy 901  
**NT3** konel  
**NT3** ni-o-nel  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** stainless steel-jbk-75  
**NT3** steel-cr11ni10mo2ti-l  
**NT3** steel-ni26cr15ti2mova1b  
**NT4** alloy-a-286  
**NT3** steel-ni36cr12ti3al-l  
**NT3** titanium additions  
**NT4** alloy-fe44ni33cr21  
**NT5** incoloy 800h  
**NT4** alloy-fe46ni33cr21  
**NT5** incoloy 800  
**NT5** incoloy 802  
**NT4** alloy-in-102  
**NT4** alloy-mo99  
**NT5** alloy-tzm  
**NT5** alloy-zm-2a  
**NT4** alloy-n-10m  
**NT4** alloy-ni43fe30cr22mo3  
**NT5** incoloy 825  
**NT4** alloy-ni51cr48  
**NT5** inconel 671  
**NT4** alloy-ni53cr19fe19nb5mo3  
**NT5** inconel 718  
**NT4** alloy-ni59cr30fe9  
**NT5** inconel 690  
**NT4** alloy-ni61cr22mo9nb4fe3  
**NT5** inconel 625  
**NT4** alloy-ni70mo17cr7fe5  
**NT5** hastelloy n  
**NT5** inor-8  
**NT4** alloy-ni73cr20mn3nb3  
**NT5** inconel 82  
**NT4** alloy-ni74cr13al6mo4  
**NT5** inconel 713c  
**NT4** alloy-ni75cr12al6mo5  
**NT5** inconel 713lc  
**NT4** alloy-ni76cr15fe8  
**NT5** inconel 600  
**NT4** alloy-ni78cr21  
**NT4** duranickel  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni9ti  
**NT3** titanium base alloys  
**NT4** alloy-ti78cr11mo7al3  
**NT4** alloy-ti88mo8al3  
**NT4** alloy-ti89al6mo3  
**NT4** alloy-ti90al6  
**NT4** alloy-ti90al6mo3  
**NT4** alloy-ti90al6v4  
**NT4** alloy-ti90mo7al2  
**NT4** alloy-ti91al4mo3  
**NT4** alloy-ti91al5cr2  
**NT4** alloy-ti99  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT2** tungsten alloys  
**NT3** alloy-c-103  
**NT3** alloy-co36cr22ni22w15fe3  
**NT4** haynes 188 alloy  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-co54cr20w15ni10  
**NT4** alloy-hs-25  
**NT4** haynes 25 alloy  
**NT3** alloy-co60cr30w4  
**NT4** stellite 6  
**NT3** alloy-d-979  
**NT3** alloy-in-102  
**NT3** alloy-khn50mbvyu  
**NT3** alloy-mar-m246  
**NT3** alloy-mn-21  
**NT3** alloy-mo-re-1  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ra-333  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-ta90w8hf  
**NT4** tantalum alloy-t111  
**NT3** alloy-v-36  
**NT3** astar 811c  
**NT3** carboloy  
**NT3** magnet steel-ks  
**NT3** miduale  
**NT3** rene 80  
**NT3** rene 95  
**NT3** supertherm  
**NT3** tungsten additions  
**NT4** alloy-ni49cr22fe18mo9  
**NT5** hastelloy x  
**NT4** alloy-ni50cr22fe18mo9  
**NT5** hastelloy xr  
**NT4** alloy-ni62cr16mo15fe3  
**NT5** hastelloy s  
**NT4** steel-ni4crw  
**NT3** tungsten base alloys  
**NT4** alloy-mo-re-2  
**NT3** tungsten bronze  
**NT3** udimet 500  
**NT2** vanadium alloys  
**NT3** alloy-co52fe35v10  
**NT3** alloy-ti90al6v4  
**NT3** alloy-ti91al4mo3  
**NT3** vanadium additions

**NT4** alloy-ni54mo17cr16fe6w4  
**NT5** hastelloy c  
**NT4** alloy-ni60col5cr10al6ti5mo3  
**NT5** alloy-in-100  
**NT4** alloy-ni62cr16mo15fe3  
**NT5** hastelloy s  
**NT4** alloy-ni65mo28fe5  
**NT5** hastelloy b  
**NT4** alloy-ti90al6  
**NT4** steel-cr12moniv  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr2mov  
**NT4** steel-cr2nimov  
**NT4** steel-cr9monbv  
**NT4** steel-crmov  
**NT4** steel-mnnimov  
**NT4** steel-ni26cr15ti2movalb  
**NT5** alloy-a-286  
**NT4** steel-ni3crmo  
**NT5** steel-astm-a543  
**NT4** steel-ni3crmov  
**NT3** vanadium base alloys  
**NT4** alloy-v87cr9fe3  
**NT2** yttrium alloys  
**NT3** alloy-c-103  
**NT3** ge 2541  
**NT3** yttrium base alloys  
**NT2** zirconium alloys  
**NT3** alloy-c-103  
**NT3** alloy-ti89al6mo3  
**NT3** alloy-ti90al6  
**NT3** alloy-u90nb7zr3  
**NT3** alloy-v87cr9fe3  
**NT3** zirconium additions  
**NT4** alloy-in-102  
**NT4** alloy-mo99  
**NT5** alloy-tzm  
**NT5** alloy-zm-2a  
**NT4** alloy-mo99b  
**NT4** alloy-n-10m  
**NT4** alloy-n-9m  
**NT4** alloy-ni43fe33cr16mo3  
**NT5** nimonic pe16  
**NT4** alloy-ni46cr23co19ti5al4  
**NT5** alloy-in-939  
**NT4** alloy-ni55col7cr15mo5al4ti4  
**NT5** astroloy  
**NT4** alloy-ni58cr20co14mo4ti3  
**NT5** waspaloy  
**NT4** alloy-ni59cr20co17ti2  
**NT4** alloy-ni60col5cr10al6ti5mo3  
**NT5** alloy-in-100  
**NT4** alloy-ni61cr16co9al3ti3w3  
**NT5** alloy-in-738  
**NT4** alloy-ni74cr13al6mo4  
**NT5** inconel 713c  
**NT4** alloy-ni75cr12al6mo5  
**NT5** inconel 713lc  
**NT4** alloy-ni76cr20ti2  
**NT5** nimonic 80a  
**NT4** magnesium alloy-ek  
**NT4** magnesium alloy-ez  
**NT4** magnesium alloy-hk31a  
**NT4** rene 80  
**NT4** rene 95  
**NT3** zirconium base alloys  
**NT4** alloy-zr97nb3  
**NT4** zircaloy  
**NT5** alloy-zr98sn-2  
**NT6** zircaloy 2  
**NT5** alloy-zr98sn-4  
**NT6** zircaloy 4  
**NT1** zinc alloys  
**NT2** brass  
**NT3** brass-alpha  
**NT3** brass-beta  
**NT2** lynite

**NT2** magnesium alloy-az31b  
**NT2** magnesium alloy-ez  
**NT2** magnesium alloy-zr  
**NT2** muntz metal  
**NT2** ounce metal  
**NT2** zinc additions  
**NT3** nickeline alloy  
**NT2** zinc base alloys  
**NT3** zamak  
**RT** alloy systems  
**RT** binary mixtures  
**RT** metallic glasses  
**RT** metals  
**RT** semimetals  
**RT** solid solutions

### ALLUVIAL DEPOSITS

*Earth, sand, gravel, or other mineral materials transported by and laid down by flowing water.*

**BT1** geologic deposits  
**RT** clays  
**RT** ground water  
**RT** placers  
**RT** sand  
**RT** sediments  
**RT** soils  
**RT** surface waters

### ALLYL RADICALS

\*BT1 alkyl radicals

### alma-ata wwr-k reactor

*INIS: 1984-06-21; ETDE: 1997-08-30*  
 USE wwr-k-almaty reactor

### ALMARAZ-1 REACTOR

*INIS: 1977-04-07; ETDE: 1977-06-02*  
*Almaraz, Caceres, Spain.*  
 \*BT1 pwr type reactors

### ALMARAZ-2 REACTOR

*INIS: 1977-04-07; ETDE: 1977-06-02*  
*Almaraz, Caceres, Spain.*  
 \*BT1 pwr type reactors

### almaty wwr-k reactor

*INIS: 1997-07-30; ETDE: 1997-08-30*  
 USE wwr-k-almaty reactor

### almendro event

*1994-10-13*  
*A test made during operation toggle.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

### ALNICO ALLOYS

\*BT1 aluminium alloys  
 \*BT1 cobalt alloys  
 \*BT1 iron base alloys  
 \*BT1 nickel alloys

### ALOE

\*BT1 liliopsida  
 \*BT1 medicinal plants

### ALOUETTE SATELLITES

BT1 satellites

### alpha autoradiography

*2000-10-18*  
 USE alpha particles  
 USE autoradiography

### ALPHA BEAMS

\*BT1 helium 4 beams  
 RT alpha particles

### ALPHA-BEARING WASTES

*INIS: 1979-04-27; ETDE: 1979-05-25*  
 UF *transuranium wastes*

UF *tru wastes*  
 \*BT1 radioactive wastes  
 RT low-level radioactive wastes  
 RT slagging pyrolysis process  
 RT wipp

### ALPHA DECAY

\*BT1 nuclear decay  
 RT alpha decay radioisotopes  
 RT alpha particles  
 RT delayed alpha particles  
 RT gamow barrier  
 RT geiger-nuttall law

### ALPHA DECAY RADIOISOTOPES

*1997-06-05*

\*BT1 radioisotopes  
**NT1** actinium 206  
**NT1** actinium 207  
**NT1** actinium 208  
**NT1** actinium 209  
**NT1** actinium 210  
**NT1** actinium 211  
**NT1** actinium 212  
**NT1** actinium 213  
**NT1** actinium 214  
**NT1** actinium 215  
**NT1** actinium 216  
**NT1** actinium 217  
**NT1** actinium 218  
**NT1** actinium 219  
**NT1** actinium 220  
**NT1** actinium 221  
**NT1** actinium 222  
**NT1** actinium 223  
**NT1** actinium 224  
**NT1** actinium 225  
**NT1** actinium 226  
**NT1** actinium 227  
**NT1** americium 231  
**NT1** americium 232  
**NT1** americium 237  
**NT1** americium 238  
**NT1** americium 239  
**NT1** americium 240  
**NT1** americium 241  
**NT1** americium 242  
**NT1** americium 243  
**NT1** astatine 191  
**NT1** astatine 192  
**NT1** astatine 193  
**NT1** astatine 194  
**NT1** astatine 196  
**NT1** astatine 197  
**NT1** astatine 198  
**NT1** astatine 199  
**NT1** astatine 200  
**NT1** astatine 201  
**NT1** astatine 202  
**NT1** astatine 203  
**NT1** astatine 204  
**NT1** astatine 205  
**NT1** astatine 206  
**NT1** astatine 207  
**NT1** astatine 208  
**NT1** astatine 209  
**NT1** astatine 210  
**NT1** astatine 211  
**NT1** astatine 212  
**NT1** astatine 213  
**NT1** astatine 214  
**NT1** astatine 215  
**NT1** astatine 216  
**NT1** astatine 217  
**NT1** astatine 218  
**NT1** astatine 219  
**NT1** astatine 220  
**NT1** berkelium 235  
**NT1** berkelium 243  
**NT1** berkelium 244

NT1	berkelium 245	NT1	dubnium 260	NT1	gadolinium 148
NT1	berkelium 247	NT1	dubnium 261	NT1	gadolinium 149
NT1	berkelium 249	NT1	dubnium 262	NT1	gadolinium 150
NT1	beryllium 8	NT1	dubnium 263	NT1	gadolinium 151
NT1	bismuth 184	NT1	dysprosium 150	NT1	gadolinium 152
NT1	bismuth 185	NT1	dysprosium 151	NT1	gold 171
NT1	bismuth 186	NT1	dysprosium 152	NT1	gold 172
NT1	bismuth 187	NT1	dysprosium 153	NT1	gold 173
NT1	bismuth 188	NT1	dysprosium 154	NT1	gold 174
NT1	bismuth 189	NT1	einsteinium 241	NT1	gold 175
NT1	bismuth 190	NT1	einsteinium 242	NT1	gold 176
NT1	bismuth 191	NT1	einsteinium 243	NT1	gold 177
NT1	bismuth 192	NT1	einsteinium 244	NT1	gold 178
NT1	bismuth 193	NT1	einsteinium 245	NT1	gold 179
NT1	bismuth 194	NT1	einsteinium 246	NT1	gold 181
NT1	bismuth 195	NT1	einsteinium 247	NT1	gold 183
NT1	bismuth 196	NT1	einsteinium 248	NT1	gold 184
NT1	bismuth 197	NT1	einsteinium 249	NT1	gold 185
NT1	bismuth 199	NT1	einsteinium 251	NT1	hafnium 156
NT1	bismuth 201	NT1	einsteinium 252	NT1	hafnium 157
NT1	bismuth 203	NT1	einsteinium 253	NT1	hafnium 158
NT1	bismuth 210	NT1	einsteinium 254	NT1	hafnium 159
NT1	bismuth 211	NT1	einsteinium 255	NT1	hafnium 160
NT1	bismuth 212	NT1	element 112 277	NT1	hafnium 161
NT1	bismuth 213	NT1	element 113 278	NT1	hafnium 162
NT1	bismuth 214	NT1	element 113 283	NT1	hafnium 174
NT1	bohrium 260	NT1	element 113 284	NT1	hassium 263
NT1	bohrium 261	NT1	element 114 285	NT1	hassium 264
NT1	bohrium 262	NT1	element 114 286	NT1	hassium 265
NT1	bohrium 264	NT1	element 114 287	NT1	hassium 266
NT1	bohrium 265	NT1	element 114 288	NT1	hassium 267
NT1	bohrium 266	NT1	element 114 289	NT1	hassium 269
NT1	bohrium 267	NT1	element 115 287	NT1	hassium 270
NT1	bohrium 271	NT1	element 115 288	NT1	hassium 271
NT1	bohrium 272	NT1	erbium 152	NT1	hassium 275
NT1	boron 9	NT1	erbium 153	NT1	helium 5
NT1	californium 237	NT1	erbium 154	NT1	holmium 151
NT1	californium 239	NT1	erbium 155	NT1	holmium 152
NT1	californium 240	NT1	europium 147	NT1	holmium 153
NT1	californium 241	NT1	europium 148	NT1	holmium 154
NT1	californium 242	NT1	fermium 243	NT1	holmium 155
NT1	californium 243	NT1	fermium 245	NT1	iodine 108
NT1	californium 244	NT1	fermium 246	NT1	iodine 111
NT1	californium 245	NT1	fermium 247	NT1	iridium 164
NT1	californium 246	NT1	fermium 248	NT1	iridium 165
NT1	californium 247	NT1	fermium 249	NT1	iridium 166
NT1	californium 248	NT1	fermium 250	NT1	iridium 167
NT1	californium 249	NT1	fermium 251	NT1	iridium 168
NT1	californium 250	NT1	fermium 252	NT1	iridium 169
NT1	californium 251	NT1	fermium 253	NT1	iridium 170
NT1	californium 252	NT1	fermium 254	NT1	iridium 171
NT1	californium 253	NT1	fermium 255	NT1	iridium 172
NT1	californium 254	NT1	fermium 256	NT1	iridium 173
NT1	curium 233	NT1	fermium 257	NT1	iridium 174
NT1	curium 234	NT1	francium 199	NT1	iridium 175
NT1	curium 235	NT1	francium 200	NT1	iridium 176
NT1	curium 236	NT1	francium 201	NT1	iridium 177
NT1	curium 237	NT1	francium 202	NT1	lawrencium 251
NT1	curium 238	NT1	francium 203	NT1	lawrencium 252
NT1	curium 240	NT1	francium 204	NT1	lawrencium 253
NT1	curium 241	NT1	francium 205	NT1	lawrencium 254
NT1	curium 242	NT1	francium 206	NT1	lawrencium 255
NT1	curium 243	NT1	francium 207	NT1	lawrencium 256
NT1	curium 244	NT1	francium 208	NT1	lawrencium 257
NT1	curium 245	NT1	francium 209	NT1	lawrencium 258
NT1	curium 246	NT1	francium 210	NT1	lawrencium 259
NT1	curium 247	NT1	francium 211	NT1	lawrencium 260
NT1	curium 248	NT1	francium 212	NT1	lawrencium 264
NT1	curium 250	NT1	francium 213	NT1	lawrencium 265
NT1	darmstadtium 267	NT1	francium 214	NT1	lawrencium 266
NT1	darmstadtium 269	NT1	francium 215	NT1	lead 178
NT1	darmstadtium 270	NT1	francium 216	NT1	lead 180
NT1	darmstadtium 271	NT1	francium 217	NT1	lead 181
NT1	darmstadtium 273	NT1	francium 218	NT1	lead 182
NT1	darmstadtium 279	NT1	francium 219	NT1	lead 183
NT1	dubnium 255	NT1	francium 220	NT1	lead 184
NT1	dubnium 256	NT1	francium 221	NT1	lead 185
NT1	dubnium 257	NT1	francium 222	NT1	lead 186
NT1	dubnium 258	NT1	francium 223	NT1	lead 187

---

NT1	lead 188	NT1	osmium 186	NT1	protactinium 220
NT1	lead 189	NT1	platinum 168	NT1	protactinium 221
NT1	lead 190	NT1	platinum 169	NT1	protactinium 222
NT1	lead 191	NT1	platinum 170	NT1	protactinium 223
NT1	lead 192	NT1	platinum 171	NT1	protactinium 224
NT1	lead 210	NT1	platinum 172	NT1	protactinium 225
NT1	lithium 5	NT1	platinum 173	NT1	protactinium 226
NT1	lutetium 155	NT1	platinum 174	NT1	protactinium 227
NT1	lutetium 156	NT1	platinum 175	NT1	protactinium 228
NT1	lutetium 157	NT1	platinum 176	NT1	protactinium 229
NT1	lutetium 158	NT1	platinum 177	NT1	protactinium 230
NT1	lutetium 159	NT1	platinum 178	NT1	protactinium 231
NT1	meitnerium 266	NT1	platinum 179	NT1	radium 201
NT1	meitnerium 268	NT1	platinum 180	NT1	radium 202
NT1	meitnerium 270	NT1	platinum 181	NT1	radium 203
NT1	meitnerium 275	NT1	platinum 182	NT1	radium 204
NT1	meitnerium 276	NT1	platinum 183	NT1	radium 205
NT1	mendelevium 245	NT1	platinum 184	NT1	radium 206
NT1	mendelevium 246	NT1	platinum 185	NT1	radium 207
NT1	mendelevium 247	NT1	platinum 186	NT1	radium 208
NT1	mendelevium 248	NT1	platinum 188	NT1	radium 209
NT1	mendelevium 249	NT1	platinum 190	NT1	radium 210
NT1	mendelevium 250	NT1	plutonium 228	NT1	radium 211
NT1	mendelevium 251	NT1	plutonium 229	NT1	radium 212
NT1	mendelevium 255	NT1	plutonium 230	NT1	radium 213
NT1	mendelevium 256	NT1	plutonium 232	NT1	radium 214
NT1	mendelevium 257	NT1	plutonium 233	NT1	radium 215
NT1	mendelevium 258	NT1	plutonium 234	NT1	radium 216
NT1	mendelevium 259	NT1	plutonium 235	NT1	radium 217
NT1	mercury 171	NT1	plutonium 236	NT1	radium 218
NT1	mercury 172	NT1	plutonium 237	NT1	radium 219
NT1	mercury 173	NT1	plutonium 238	NT1	radium 220
NT1	mercury 174	NT1	plutonium 239	NT1	radium 221
NT1	mercury 175	NT1	plutonium 240	NT1	radium 222
NT1	mercury 176	NT1	plutonium 241	NT1	radium 223
NT1	mercury 177	NT1	plutonium 242	NT1	radium 224
NT1	mercury 178	NT1	plutonium 244	NT1	radium 226
NT1	mercury 179	NT1	polonium 186	NT1	radon 193
NT1	mercury 180	NT1	polonium 187	NT1	radon 194
NT1	mercury 181	NT1	polonium 188	NT1	radon 195
NT1	mercury 182	NT1	polonium 189	NT1	radon 197
NT1	mercury 183	NT1	polonium 190	NT1	radon 198
NT1	mercury 184	NT1	polonium 191	NT1	radon 199
NT1	mercury 185	NT1	polonium 192	NT1	radon 200
NT1	mercury 186	NT1	polonium 193	NT1	radon 201
NT1	mercury 187	NT1	polonium 194	NT1	radon 202
NT1	mercury 188	NT1	polonium 195	NT1	radon 203
NT1	neodymium 144	NT1	polonium 196	NT1	radon 204
NT1	neptunium 225	NT1	polonium 197	NT1	radon 205
NT1	neptunium 226	NT1	polonium 198	NT1	radon 206
NT1	neptunium 227	NT1	polonium 199	NT1	radon 207
NT1	neptunium 229	NT1	polonium 200	NT1	radon 208
NT1	neptunium 230	NT1	polonium 201	NT1	radon 209
NT1	neptunium 231	NT1	polonium 202	NT1	radon 210
NT1	neptunium 233	NT1	polonium 203	NT1	radon 211
NT1	neptunium 235	NT1	polonium 204	NT1	radon 212
NT1	neptunium 237	NT1	polonium 205	NT1	radon 213
NT1	nobelium 251	NT1	polonium 206	NT1	radon 214
NT1	nobelium 252	NT1	polonium 207	NT1	radon 215
NT1	nobelium 253	NT1	polonium 208	NT1	radon 216
NT1	nobelium 254	NT1	polonium 209	NT1	radon 217
NT1	nobelium 255	NT1	polonium 210	NT1	radon 218
NT1	nobelium 256	NT1	polonium 211	NT1	radon 219
NT1	nobelium 257	NT1	polonium 212	NT1	radon 220
NT1	nobelium 259	NT1	polonium 213	NT1	radon 221
NT1	nobelium 260	NT1	polonium 214	NT1	radon 222
NT1	osmium 162	NT1	polonium 215	NT1	rhenium 160
NT1	osmium 163	NT1	polonium 216	NT1	rhenium 161
NT1	osmium 164	NT1	polonium 217	NT1	rhenium 162
NT1	osmium 165	NT1	polonium 218	NT1	rhenium 163
NT1	osmium 166	NT1	promethium 145	NT1	rhenium 164
NT1	osmium 167	NT1	protactinium 212	NT1	rhenium 165
NT1	osmium 168	NT1	protactinium 213	NT1	rhenium 166
NT1	osmium 169	NT1	protactinium 214	NT1	rhenium 167
NT1	osmium 170	NT1	protactinium 215	NT1	rhenium 168
NT1	osmium 171	NT1	protactinium 216	NT1	rhenium 169
NT1	osmium 172	NT1	protactinium 217	NT1	roentgenium 272
NT1	osmium 173	NT1	protactinium 218	NT1	roentgenium 273
NT1	osmium 174	NT1	protactinium 219	NT1	roentgenium 274

NT1 roentgenium 279  
 NT1 roentgenium 280  
 NT1 rutherfordium 253  
 NT1 rutherfordium 254  
 NT1 rutherfordium 255  
 NT1 rutherfordium 256  
 NT1 rutherfordium 257  
 NT1 rutherfordium 258  
 NT1 rutherfordium 259  
 NT1 rutherfordium 261  
 NT1 samarium 146  
 NT1 samarium 147  
 NT1 samarium 148  
 NT1 seaborgium 258  
 NT1 seaborgium 259  
 NT1 seaborgium 260  
 NT1 seaborgium 261  
 NT1 seaborgium 262  
 NT1 seaborgium 263  
 NT1 seaborgium 264  
 NT1 seaborgium 265  
 NT1 seaborgium 266  
 NT1 seaborgium 268  
 NT1 seaborgium 270  
 NT1 seaborgium 271  
 NT1 seaborgium 272  
 NT1 tantalum 157  
 NT1 tantalum 158  
 NT1 tantalum 159  
 NT1 tantalum 160  
 NT1 tantalum 161  
 NT1 tantalum 163  
 NT1 tantalum 164  
 NT1 tellurium 105  
 NT1 tellurium 106  
 NT1 tellurium 107  
 NT1 tellurium 108  
 NT1 tellurium 109  
 NT1 tellurium 110  
 NT1 terbium 149  
 NT1 terbium 151  
 NT1 thallium 177  
 NT1 thallium 178  
 NT1 thallium 179  
 NT1 thallium 180  
 NT1 thallium 181  
 NT1 thallium 182  
 NT1 thallium 183  
 NT1 thallium 184  
 NT1 thallium 185  
 NT1 thallium 186  
 NT1 thallium 187  
 NT1 thorium 209  
 NT1 thorium 210  
 NT1 thorium 211  
 NT1 thorium 212  
 NT1 thorium 213  
 NT1 thorium 214  
 NT1 thorium 215  
 NT1 thorium 216  
 NT1 thorium 217  
 NT1 thorium 218  
 NT1 thorium 219  
 NT1 thorium 220  
 NT1 thorium 221  
 NT1 thorium 222  
 NT1 thorium 223  
 NT1 thorium 224  
 NT1 thorium 225  
 NT1 thorium 226  
 NT1 thorium 227  
 NT1 thorium 228  
 NT1 thorium 229  
 NT1 thorium 230  
 NT1 thorium 232  
 NT1 thulium 153  
 NT1 thulium 154  
 NT1 thulium 155  
 NT1 thulium 156

NT1 thulium 157  
 NT1 tungsten 158  
 NT1 tungsten 159  
 NT1 tungsten 160  
 NT1 tungsten 161  
 NT1 tungsten 162  
 NT1 tungsten 163  
 NT1 tungsten 164  
 NT1 tungsten 165  
 NT1 tungsten 166  
 NT1 uranium 217  
 NT1 uranium 218  
 NT1 uranium 219  
 NT1 uranium 220  
 NT1 uranium 221  
 NT1 uranium 222  
 NT1 uranium 223  
 NT1 uranium 224  
 NT1 uranium 225  
 NT1 uranium 226  
 NT1 uranium 227  
 NT1 uranium 228  
 NT1 uranium 229  
 NT1 uranium 230  
 NT1 uranium 231  
 NT1 uranium 232  
 NT1 uranium 233  
 NT1 uranium 234  
 NT1 uranium 235  
 NT1 uranium 236  
 NT1 uranium 238  
 NT1 xenon 109  
 NT1 xenon 110  
 NT1 xenon 111  
 NT1 xenon 112  
 NT1 ytterbium 154  
 NT1 ytterbium 155  
 NT1 ytterbium 156  
 NT1 ytterbium 157  
 NT1 ytterbium 158  
 RT alpha decay

#### ALPHA DETECTION

\*BT1 charged particle detection  
 RT alpha dosimetry  
 RT alpha spectrometers  
 RT alpha spectroscopy

#### alpha device

1996-07-16  
 (Until July 1996 this was a valid descriptor.)  
 USE tlp devices

#### ALPHA DOSIMETRY

BT1 dosimetry  
 RT alpha detection

#### alpha-nitroso-beta-naphthol

USE 1-nitroso-2-naphthol

#### alpha particle model

USE cluster model

#### ALPHA PARTICLES

*Emitted by nuclei.*  
 UF alpha autoradiography  
 BT1 charged particles  
 \*BT1 ionizing radiations  
 NT1 cosmic alpha particles  
 NT1 delayed alpha particles  
 NT1 solar alpha particles  
 RT alpha beams  
 RT alpha decay  
 RT alpha sources  
 RT alpha spectra  
 RT geiger-nuttall law  
 RT helium ash  
 RT helium ions

#### ALPHA REACTIONS

UF helium 4 reactions

\*BT1 charged-particle reactions

#### ALPHA SOURCES

BT1 ion sources  
 \*BT1 particle sources  
 RT alpha particles

#### ALPHA SPECTRA

BT1 spectra  
 RT alpha particles

#### ALPHA SPECTROMETERS

\*BT1 spectrometers  
 RT alpha detection

#### alpha spectrometry

INIS: 1975-10-23; ETDE: 2002-06-07  
 USE alpha spectroscopy

#### ALPHA SPECTROSCOPY

UF alpha spectrometry  
 BT1 spectroscopy  
 RT alpha detection

#### ALPHA-TRANSFER REACTIONS

\*BT1 four-nucleon transfer reactions

#### ALPS

BT1 mountains  
 RT albania  
 RT austria  
 RT croatia  
 RT federal republic of germany  
 RT france  
 RT italy  
 RT slovenia  
 RT switzerland

#### ALRR REACTOR

Ames Laboratory, Iowa State Univ., Ames, Iowa, USA. Shut down in 1977.  
 UF ames laboratory research reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

#### als storage ring

INIS: 1992-08-17; ETDE: 1992-06-11  
 USE advanced light source

#### ALTAMAHA RIVER

INIS: 2000-04-12; ETDE: 1980-12-08  
 \*BT1 rivers  
 RT georgia  
 RT hydroelectric power plants

#### alternate fuels

INIS: 2000-04-12; ETDE: 1979-03-29  
 See specific fuel headings, e.g., gasoline, hydrogen fuels, etc.  
 SEE fuel substitution  
 SEE synthetic fuels

#### ALTERNATING CURRENT

UF current (alternating)  
 \*BT1 electric currents  
 RT alternators  
 RT parametric instabilities

#### alternating current systems

INIS: 1991-12-17; ETDE: 2002-06-07  
 USE ac systems

#### ALTERNATIVE WORK SCHEDULES

INIS: 2000-04-12; ETDE: 1984-05-08  
 UF compressed work week  
 UF flexitime  
 UF part-time work schedules  
 UF shift work



BT1 administrative procedures  
 RT personnel  
 RT working days

**ALTERNATORS**

\*BT1 electric generators  
 RT alternating current  
 RT automotive accessories

**althein**

USE asparagine

**ALTIMETERS**

BT1 measuring instruments

**ALTITUDE**

INIS: 1996-08-05; ETDE: 1993-08-10  
 (Until July 1996 this concept was indexed to LEVELS.)

RT height  
 RT levels  
 RT sun charts

**alto lazio-1 reactor**

INIS: 1985-03-15; ETDE: 1985-04-09  
 USE montalto di castro-1 reactor

**alto lazio-2 reactor**

INIS: 1985-03-15; ETDE: 1985-04-09  
 USE montalto di castro-2 reactor

**ALUDUR**

2000-04-12  
 \*BT1 aluminium base alloys  
 \*BT1 iron additions  
 \*BT1 silicon additions

**ALUMEL**

1993-10-03  
 \*BT1 alloy-ni94mn3al2

**ALUMINATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 aluminium compounds  
 BT1 oxygen compounds  
 RT aluminium oxides

**aluminia**

INIS: 1975-09-01; ETDE: 1979-05-03  
 USE aluminium oxides

**ALUMINIUM**

UF *aluminum*  
 \*BT1 metals  
 RT lime-soda sinter process  
 RT sintered aluminium powders

**ALUMINIUM 21**

2007-09-25  
 \*BT1 aluminium isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes

**ALUMINIUM 22**

INIS: 1977-06-13; ETDE: 1977-10-19  
 \*BT1 aluminium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ALUMINIUM 23**

\*BT1 aluminium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ALUMINIUM 24**

\*BT1 aluminium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ALUMINIUM 25**

\*BT1 aluminium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**ALUMINIUM 25 TARGET**

INIS: 1979-04-27; ETDE: 1979-05-25  
 BT1 targets

**ALUMINIUM 26**

\*BT1 aluminium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 years living radioisotopes

**ALUMINIUM 26 TARGET**

INIS: 1984-06-21; ETDE: 1982-11-08  
 BT1 targets

**ALUMINIUM 27**

\*BT1 aluminium isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes

**ALUMINIUM 27 BEAMS**

INIS: 1977-01-25; ETDE: 1977-04-13  
 \*BT1 ion beams

**ALUMINIUM 27 REACTIONS**

INIS: 1978-08-30; ETDE: 1978-10-19  
 \*BT1 heavy ion reactions

**ALUMINIUM 27 TARGET**

ETDE: 1976-07-09  
 BT1 targets

**ALUMINIUM 28**

\*BT1 aluminium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**ALUMINIUM 28 TARGET**

INIS: 1979-04-27; ETDE: 1979-05-25  
 BT1 targets

**ALUMINIUM 29**

\*BT1 aluminium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**ALUMINIUM 30**

\*BT1 aluminium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ALUMINIUM 31**

\*BT1 aluminium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ALUMINIUM 32**

\*BT1 aluminium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ALUMINIUM 33**

\*BT1 aluminium isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

**ALUMINIUM 34**

INIS: 1977-10-17; ETDE: 1977-08-09  
 \*BT1 aluminium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ALUMINIUM 35**

INIS: 1979-09-18; ETDE: 1979-04-11  
 \*BT1 aluminium isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

**ALUMINIUM 36**

INIS: 1980-07-24; ETDE: 1980-02-11  
 \*BT1 aluminium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei

**ALUMINIUM 37**

INIS: 1980-07-24; ETDE: 1980-02-11  
 \*BT1 aluminium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

**ALUMINIUM 38**

INIS: 1989-09-14; ETDE: 1989-10-16  
 \*BT1 aluminium isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei

**ALUMINIUM 39**

INIS: 1989-09-14; ETDE: 1989-10-16  
 \*BT1 aluminium isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

**ALUMINIUM 40**

2005-01-19  
 \*BT1 aluminium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ALUMINIUM 41**

2007-09-25  
 \*BT1 aluminium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**ALUMINIUM 42**

2007-09-25  
 \*BT1 aluminium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

**ALUMINIUM ADDITIONS**

1996-11-13  
*Alloys containing not more than 1% Al are listed here.*  
 \*BT1 aluminium alloys  
 NT1 alloy-fe44ni33cr21  
 NT2 incoloy 800h  
 NT1 alloy-fe46ni33cr21

NT2 incoloy 800  
 NT2 incoloy 802  
 NT1 alloy-in-102  
 NT1 alloy-ni43fe30cr22mo3  
 NT2 incoloy 825  
 NT1 alloy-ni53cr19fe19nb5mo3  
 NT2 inconel 718  
 NT1 alloy-ni54cr22co13mo9  
 NT2 inconel 617  
 NT1 alloy-ni61cr22mo9nb4fe3  
 NT2 inconel 625  
 NT1 alloy-ni62cr16mo15fe3  
 NT2 hastelloy s  
 NT1 alloy-ni70mo17cr7fe5  
 NT2 hastelloy n  
 NT2 inor-8  
 NT1 alloy-ni73cr15fe7ti3  
 NT2 inconel x750  
 NT1 alloy-ni76cr15fe8  
 NT2 inconel 600  
 NT1 alloy-ni77cr20ti2  
 NT1 alloy-ni78cr21  
 NT1 alloy-ni80cr20  
 NT1 discaloy  
 NT1 incoloy 901  
 NT1 steel-cr13al  
 NT2 stainless steel-405  
 NT1 steel-cralnimo  
 NT1 steel-ni26cr15ti2moyalb  
 NT2 alloy-a-286  
 NT1 steel-ni36cr12ti3al-l

**ALUMINIUM-AIR BATTERIES**

INIS: 2000-04-12; ETDE: 1980-03-04

\*BT1 metal-gas batteries

**ALUMINIUM ALLOYS**

1996-11-13

Alloys containing more than 1% Al.

UF alloy-ni78cr16al4

UF inconel 702

UF sichromal alloys

BT1 alloys

NT1 alloy-b-1900

NT1 alloy-d-979

NT1 alloy-in-853

NT1 alloy-khn50mbvyu

NT1 alloy-m-813

NT1 alloy-mar-m246

NT1 alloy-mn-21

NT1 alloy-ni43fe33cr16mo3

NT2 nimonic pel6

NT1 alloy-ni46cr23co19ti5al4

NT2 alloy-in-939

NT1 alloy-ni50co20cr15al5mo5

NT2 nimonic 105

NT1 alloy-ni53co19cr15mo5al4ti3

NT2 udimet 700

NT1 alloy-ni55co17cr15mo5al4ti4

NT2 astroloy

NT1 alloy-ni55cr19co11mo10ti3

NT2 rene 41

NT1 alloy-ni58cr20co14mo4ti3

NT2 waspaloy

NT1 alloy-ni59cr20co17ti2

NT1 alloy-ni60co15cr10al6ti5mo3

NT2 alloy-in-100

NT1 alloy-ni61cr16co9al3ti3w3

NT2 alloy-in-738

NT1 alloy-ni74cr13al6mo4

NT2 inconel 713c

NT1 alloy-ni75cr12al6mo5

NT2 inconel 713lc

NT1 alloy-ni76cr20ti2

NT2 nimonic 80a

NT1 alloy-ni94mn3al2

NT2 alumel

NT1 alloy-nt25a5

NT1 alloy-nx-188

NT1 alloy-ti78cr11mo7al3

NT1 alloy-ti88mo8al3  
 NT1 alloy-ti89al6mo3  
 NT1 alloy-ti90al6  
 NT1 alloy-ti90al6mo3  
 NT1 alloy-ti90al6v4  
 NT1 alloy-ti90mo7al2  
 NT1 alloy-ti91al4mo3  
 NT1 alloy-ti91al5cr2  
 NT1 alloy-yundk 25ba  
 NT1 alnico alloys  
 NT1 aluminium additions  
 NT2 alloy-fe44ni33cr21  
 NT3 incoloy 800h  
 NT2 alloy-fe46ni33cr21  
 NT3 incoloy 800  
 NT3 incoloy 802  
 NT2 alloy-in-102  
 NT2 alloy-ni43fe30cr22mo3  
 NT3 incoloy 825  
 NT2 alloy-ni53cr19fe19nb5mo3  
 NT3 inconel 718  
 NT2 alloy-ni54cr22co13mo9  
 NT3 inconel 617  
 NT2 alloy-ni61cr22mo9nb4fe3  
 NT3 inconel 625  
 NT2 alloy-ni62cr16mo15fe3  
 NT3 hastelloy s  
 NT2 alloy-ni70mo17cr7fe5  
 NT3 hastelloy n  
 NT3 inor-8  
 NT2 alloy-ni73cr15fe7ti3  
 NT3 inconel x750  
 NT2 alloy-ni76cr15fe8  
 NT3 inconel 600  
 NT2 alloy-ni77cr20ti2  
 NT2 alloy-ni78cr21  
 NT2 alloy-ni80cr20  
 NT2 discaloy  
 NT2 incoloy 901  
 NT2 steel-cr13al  
 NT3 stainless steel-405  
 NT2 steel-cralnimo  
 NT2 steel-ni26cr15ti2moyalb  
 NT3 alloy-a-286  
 NT2 steel-ni36cr12ti3al-l  
 NT1 aluminium base alloys  
 NT2 alloy-al95cu4  
 NT3 duralumin  
 NT2 aludur  
 NT2 bondur  
 NT2 duranalium  
 NT2 heddur  
 NT2 lynite  
 NT2 magnalium  
 NT1 duranickel  
 NT1 ge 2541  
 NT1 heusler alloys  
 NT1 hoskins 875  
 NT1 kanthal  
 NT1 magnesium alloy-az31b  
 NT1 nimonic 115  
 NT1 rene-100  
 NT1 rene 80  
 NT1 rene 95  
 NT1 stainless steel-17-7ph  
 NT1 zamak

**ALUMINIUM ARSENIDE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1981-07-18

\*BT1 solar cells

**ALUMINIUM ARSENIDES**

BT1 aluminium compounds

\*BT1 arsenides

**ALUMINIUM BASE ALLOYS**

UF alloy-1915

UF alloy-214x

SF alloy-vad23

\*BT1 aluminium alloys

NT1 alloy-al95cu4

NT2 duralumin

NT1 aludur

NT1 bondur

NT1 duranalium

NT1 heddur

NT1 lynite

NT1 magnalium

**ALUMINIUM BORIDES**

BT1 aluminium compounds

\*BT1 borides

**ALUMINIUM BROMIDES**

BT1 aluminium compounds

\*BT1 bromides

**ALUMINIUM CARBIDES**

BT1 aluminium compounds

\*BT1 carbides

**ALUMINIUM CHLORIDES**

BT1 aluminium compounds

\*BT1 chlorides

**ALUMINIUM COMPLEXES**

BT1 complexes

**ALUMINIUM COMPOUNDS**

NT1 aluminates

NT1 aluminium arsenides

NT1 aluminium borides

NT1 aluminium bromides

NT1 aluminium carbides

NT1 aluminium chlorides

NT1 aluminium fluorides

NT1 aluminium hydrides

NT1 aluminium hydroxides

NT1 aluminium iodides

NT1 aluminium nitrates

NT1 aluminium nitrides

NT1 aluminium oxides

NT1 aluminium perchlorates

NT1 aluminium phosphates

NT1 aluminium phosphides

NT1 aluminium selenides

NT1 aluminium silicates

NT1 aluminium silicides

NT1 aluminium sulfates

NT1 aluminium sulfides

NT1 aluminium tellurides

NT1 aluminium tungstates

RT dawsonite

**ALUMINIUM FLUORIDES**

BT1 aluminium compounds

\*BT1 fluorides

**ALUMINIUM HYDRIDES**

BT1 aluminium compounds

\*BT1 hydrides

**ALUMINIUM HYDROXIDES**

BT1 aluminium compounds

\*BT1 hydroxides

RT bauxite

RT gibbsite

RT nordstrandite

**ALUMINIUM IODIDES**

BT1 aluminium compounds

\*BT1 iodides

**ALUMINIUM IONS**

\*BT1 ions

**ALUMINIUM ISOTOPES**

1999-07-16

BT1 isotopes

NT1 aluminium 21

NT1 aluminium 22

NT1 aluminium 23

NT1 aluminium 24  
 NT1 aluminium 25  
 NT1 aluminium 26  
 NT1 aluminium 27  
 NT1 aluminium 28  
 NT1 aluminium 29  
 NT1 aluminium 30  
 NT1 aluminium 31  
 NT1 aluminium 32  
 NT1 aluminium 33  
 NT1 aluminium 34  
 NT1 aluminium 35  
 NT1 aluminium 36  
 NT1 aluminium 37  
 NT1 aluminium 38  
 NT1 aluminium 39  
 NT1 aluminium 40  
 NT1 aluminium 41  
 NT1 aluminium 42

**ALUMINIUM NITRATES**

BT1 aluminium compounds  
 \*BT1 nitrates

**ALUMINIUM NITRIDES**

BT1 aluminium compounds  
 \*BT1 nitrides

**ALUMINIUM ORES**

ETDE: 1975-09-11

BT1 ores  
 NT1 bauxite

**ALUMINIUM OXIDES**

UF *aluminia*  
 UF *sialon*  
 UF *yttrium aluminium garnets*  
 BT1 aluminium compounds  
 \*BT1 oxides  
 RT aluminates  
 RT chrysoberyl  
 RT corundum  
 RT hollandite  
 RT integrated in-situ process  
 RT oxide minerals  
 RT spinels

**ALUMINIUM PERCHLORATES**

INIS: 1989-02-24; ETDE: 1989-03-20

BT1 aluminium compounds  
 \*BT1 perchlorates

**ALUMINIUM PHOSPHATES**

1996-06-26

BT1 aluminium compounds  
 \*BT1 phosphates  
 RT phosphate minerals  
 RT sabugalite

**ALUMINIUM PHOSPHIDES**

INIS: 1983-02-03; ETDE: 1980-02-11

BT1 aluminium compounds  
 \*BT1 phosphides

**ALUMINIUM SELENIDES**

INIS: 1991-09-16; ETDE: 1978-09-13

BT1 aluminium compounds  
 \*BT1 selenides

**ALUMINIUM SILICATES**

BT1 aluminium compounds  
 \*BT1 silicates  
 RT epidotes  
 RT kaolinite  
 RT orthoclase  
 RT petalite  
 RT pollucite  
 RT pyrophyllite  
 RT silicate minerals  
 RT smectite  
 RT tourmaline  
 RT vermiculite

**ALUMINIUM SILICIDES**

INIS: 1977-03-01; ETDE: 1975-10-28

BT1 aluminium compounds  
 \*BT1 silicides

**ALUMINIUM SULFATES**

BT1 aluminium compounds  
 \*BT1 sulfates  
 RT alunite  
 RT sulfate minerals

**ALUMINIUM SULFIDES**

BT1 aluminium compounds  
 \*BT1 sulfides

**ALUMINIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1975-09-11

BT1 aluminium compounds  
 \*BT1 tellurides

**ALUMINIUM TUNGSTATES**

INIS: 1979-09-18; ETDE: 1979-10-23

BT1 aluminium compounds  
 \*BT1 tungstates

**aluminon**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE hydroxy acids  
 USE triphenylmethane dyes

**aluminum**

INIS: 2000-04-12; ETDE: 1981-03-16

USE aluminium

**ALUNITE**

2000-04-12

*A mineral, rhombohedral, usually in white, gray or pink masses in hydrothermally altered feldspathic rock.*

\*BT1 sulfate minerals  
 RT aluminium sulfates

**alveoli (dental)**

USE jaw

**alveoli (pulmonary)**

USE lungs

**ALVITE**

2000-04-12

\*BT1 silicate minerals  
 RT zirconium silicates

**am-1 reactor**

USE aps reactor

**amalgams**

USE mercury alloys

**AMAZON RIVER**

INIS: 1982-06-09; ETDE: 1977-08-09

\*BT1 rivers  
 RT brazil  
 RT peru

**AMBER**

\*BT1 other organic compounds

**amberlite**

USE organic ion exchangers

**AMBIENT TEMPERATURE**

INIS: 1993-07-06; ETDE: 1976-03-22

*The temperature of the environment.*

UF *atmospheric temperature*  
 UF *environmental temperature*  
 UF *global temperature*  
 UF *temperature (ambient)*  
 UF *temperature (atmospheric)*  
 UF *temperature (global)*  
 RT *climate models*

RT *climatic change*  
 RT *nuclear winter*  
 RT *outdoors*  
 RT *temperature control*  
 RT *temperature dependence*  
 RT *temperature distribution*  
 RT *temperature gradients*  
 RT *temperature measurement*  
 RT *temperature range*

**AMBIPLASMA**

*Containing both matter and antimatter.*

BT1 plasma  
 RT antimatter  
 RT matter

**AMBIPOLAR DIFFUSION**

BT1 diffusion  
 RT electron drift  
 RT ion drift  
 RT plasma drift

**AMBROSIA LAKE**

\*BT1 lakes

**AMCHITKA ISLAND AREA**

\*BT1 aleutian islands  
 RT alaska

**amdahl computers**

INIS: 2000-04-12; ETDE: 1977-09-19

(Prior to March 1997 this was a valid ETDE descriptor.)

USE computers

**ameba**

USE amoeba

**AMENDMENTS**

INIS: 1999-01-28; ETDE: 1979-12-10

RT laws  
 RT legal aspects  
 RT legislation  
 RT regulations

**amenorrhea**

USE menstruation disorders

**american blacks**

INIS: 2000-04-12; ETDE: 1981-03-17

USE black americans

**american hispanics**

INIS: 2000-04-12; ETDE: 1982-01-21

USE hispanic americans

**AMERICAN INDIANS**

INIS: 1999-04-30; ETDE: 1977-11-29

(From January 1979 to March 1997 INDIAN RESERVATIONS was a valid ETDE descriptor.)

UF *indians (american)*  
 SF *indian reservations*  
 \*BT1 minority groups

**american orientals**

INIS: 2000-04-12; ETDE: 1982-01-21

USE oriental americans

**AMERICAN SAMOA**

INIS: 1993-10-01; ETDE: 1979-09-26

BT1 islands  
 \*BT1 usa  
 RT pacific ocean

**AMERICIUM**

\*BT1 actinides  
 \*BT1 transplutonium elements  
 RT sesame process

**AMERICIUM 231**

2007-09-25

\*BT1 actinide nuclei

- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**AMERICIUM 232**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**AMERICIUM 233**

2001-01-30

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**AMERICIUM 234**

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**AMERICIUM 235**

INIS: 1997-06-05; ETDE: 1997-02-10

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**AMERICIUM 236**

INIS: 1997-02-07; ETDE: 1977-11-09

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**AMERICIUM 237**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 238**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 239**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 240**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 241**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**AMERICIUM 241 TARGET**

ETDE: 1976-07-09

- BT1 targets

**AMERICIUM 242**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**AMERICIUM 242 TARGET**

ETDE: 1976-07-09

- BT1 targets

**AMERICIUM 243**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**AMERICIUM 243 TARGET**

ETDE: 1976-07-09

- BT1 targets

**AMERICIUM 244**

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 245**

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 246**

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 247**

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**AMERICIUM 248**

2007-09-25

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**AMERICIUM 249**

2007-09-25

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**americium additions**

1996-07-16

*Alloys containing not more than 1% Am.*  
(Until July 1996 this was a valid descriptor.)  
SEE americium alloys  
SEE americium compounds

**AMERICIUM ALLOYS**

1996-07-16

*Alloys containing more than 1% Am.*  
UF americium base alloys  
SF americium additions  
\*BT1 actinide alloys

**AMERICIUM ARSENIDES**

INIS: 1996-07-16; ETDE: 1976-12-16

(From July 1996 to February 2008  
AMERICIUM COMPOUNDS +  
ARSENIDES was used for this concept.)  
\*BT1 americium compounds  
\*BT1 arsenides

**americium base alloys**

1996-07-16

(Until July 1996 this was a valid descriptor.)  
USE americium alloys

**AMERICIUM BROMIDES**

1997-01-28

(From October 1996 to September 2007  
AMERICIUM COMPOUNDS + BROMIDES  
was used for this concept.)  
\*BT1 americium compounds  
\*BT1 bromides

**AMERICIUM CARBIDES**

1996-07-16

(From July 1996 to November 2007  
AMERICIUM COMPOUNDS + CARBIDES  
was used for this concept.)  
\*BT1 americium compounds  
\*BT1 carbides

**AMERICIUM CARBONATES**

- \*BT1 americium compounds
- \*BT1 carbonates

**AMERICIUM CHLORIDES**

- \*BT1 americium compounds
- \*BT1 chlorides

**AMERICIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**AMERICIUM COMPOUNDS**

1996-11-13

(Prior to August 1996 AMERICIUM  
ADDITIONS was a valid ETDE descriptor.)

- SF americium additions
- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 americium arsenides
- NT1 americium bromides
- NT1 americium carbides
- NT1 americium carbonates
- NT1 americium chlorides
- NT1 americium fluorides
- NT1 americium halides
- NT2 americium iodides
- NT1 americium hydrides
- NT1 americium hydroxides
- NT1 americium nitrates
- NT1 americium nitrides

NT1 americium oxides  
 NT1 americium perchlorates  
 NT1 americium phosphates  
 NT1 americium phosphides  
 NT1 americium selenides  
 NT1 americium silicates  
 NT1 americium silicides  
 NT1 americium sulfates  
 NT1 americium sulfides  
 NT1 americium tellurides

**AMERICIUM FLUORIDES**

\*BT1 americium compounds  
 \*BT1 fluorides

**AMERICIUM HALIDES**

2008-02-07

\*BT1 americium compounds  
 \*BT1 halides  
 NT1 americium iodides

**AMERICIUM HYDRIDES**

1984-11-30

\*BT1 americium compounds  
 \*BT1 hydrides

**AMERICIUM HYDROXIDES**

\*BT1 americium compounds  
 \*BT1 hydroxides

**AMERICIUM IODIDES**

1997-01-28

(From October 1996 to February 2008  
 AMERICIUM COMPOUNDS + IODIDES  
 was used for this concept.)

\*BT1 americium halides  
 \*BT1 iodides

**AMERICIUM IONS**

\*BT1 ions

**AMERICIUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 americium 231  
 NT1 americium 232  
 NT1 americium 233  
 NT1 americium 234  
 NT1 americium 235  
 NT1 americium 236  
 NT1 americium 237  
 NT1 americium 238  
 NT1 americium 239  
 NT1 americium 240  
 NT1 americium 241  
 NT1 americium 242  
 NT1 americium 243  
 NT1 americium 244  
 NT1 americium 245  
 NT1 americium 246  
 NT1 americium 247  
 NT1 americium 248  
 NT1 americium 249

**AMERICIUM NITRATES**

\*BT1 americium compounds  
 \*BT1 nitrates

**AMERICIUM NITRIDES**

\*BT1 americium compounds  
 \*BT1 nitrides

**AMERICIUM OXIDES**

\*BT1 americium compounds  
 \*BT1 oxides

**AMERICIUM PERCHLORATES**

INIS: 1978-09-28; ETDE: 1978-10-19

\*BT1 americium compounds  
 \*BT1 perchlorates

**AMERICIUM PHOSPHATES**

INIS: 1978-07-31; ETDE: 1978-09-11

\*BT1 americium compounds  
 \*BT1 phosphates

**AMERICIUM PHOSPHIDES**

2000-04-12

(From January 1993 to November 2007  
 AMERICIUM COMPOUNDS +  
 PHOSPHIDES was used for this concept.)

\*BT1 americium compounds  
 \*BT1 phosphides

**AMERICIUM SELENIDES**

INIS: 1996-07-16; ETDE: 1976-01-23

(From July 1996 to November 2007  
 AMERICIUM COMPOUNDS + SELENIDES  
 was used for this concept.)

\*BT1 americium compounds  
 \*BT1 selenides

**AMERICIUM SILICATES**

INIS: 1997-01-28; ETDE: 1984-09-05

(From November 1996 to November 2007  
 AMERICIUM COMPOUNDS + SILICATES  
 was used for this concept.)

\*BT1 americium compounds  
 \*BT1 silicates

**AMERICIUM SILICIDES**

INIS: 2000-04-12; ETDE: 1978-12-11

(From March 1997 to November 2007  
 AMERICIUM COMPOUNDS + SILICIDES  
 was used for this concept.)

\*BT1 americium compounds  
 \*BT1 silicides

**AMERICIUM SULFATES**

2000-04-12

(From March 1997 to November 2007  
 AMERICIUM COMPOUNDS + SULFATES  
 was used for this concept.)

\*BT1 americium compounds  
 \*BT1 sulfates

**AMERICIUM SULFIDES**

1996-07-16

(From July 1996 to November 2007  
 AMERICIUM COMPOUNDS + SULFIDES  
 was used for this concept.)

\*BT1 americium compounds  
 \*BT1 sulfides

**AMERICIUM TELLURIDES**

INIS: 1997-01-28; ETDE: 1976-01-23

(From October 1996 to February 2008  
 AMERICIUM COMPOUNDS +  
 TELLURIDES was used for this concept.)

\*BT1 americium compounds  
 \*BT1 tellurides

**ames, iowa state university utr-10 reactor**

INIS: 1993-11-03; ETDE: 2002-06-07

USE iowa utr-10 reactor

**AMES LABORATORY**

\*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
 RT iowa

**ames laboratory research reactor**

2000-04-12

USE alrr reactor

**ames test**

INIS: 2000-04-12; ETDE: 1978-11-14

USE mutagen screening

**ames wet oxidation process**

INIS: 2000-04-12; ETDE: 1980-09-04

This process, similar to the Ledgemont and Pittsburgh processes, uses alkaline leaching solution to improve the extraction of pyritic sulfur, remove some organic sulfur, and be less corrosive.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**amethopterin**

USE methotrexate

**AMEX PROCESS**

\*BT1 reprocessing  
 RT amines  
 RT solvent extraction

**AMIDASES**

INIS: 1986-12-03; ETDE: 1981-01-30

Code number 3.5.1.

\*BT1 non-peptide c-n hydrolases  
 NT1 arginase  
 NT1 urease

**AMIDES**

1996-10-23

UF hypaque  
 UF ioglycamic acid  
 \*BT1 organic nitrogen compounds  
 NT1 acetamide  
 NT1 acrylamide  
 NT1 asparagine  
 NT1 formamide  
 NT1 glutamine  
 NT1 hydroxyurea  
 NT1 lactams  
 NT2 pyrrolidones  
 NT3 pvp  
 NT1 metrizamide  
 NT1 nicotinamide  
 NT1 sulfenamides  
 NT1 sulfonamides  
 NT1 thionalide  
 NT1 urea  
 RT bph  
 RT cerebrosidies  
 RT chloramines  
 RT diamex process  
 RT guanidines  
 RT polyamides  
 RT thioureas

**AMIDINASES**

INIS: 2000-04-12; ETDE: 1981-02-18

Code number 3.5.3.

\*BT1 non-peptide c-n hydrolases

**AMIDINES**

1996-07-08

(Prior to August 1996 STILBAMIDINE was a valid ETDE descriptor.)

UF iminoamides  
 UF stilbamidine  
 \*BT1 organic nitrogen compounds

**amidol**

1996-09-06

(Until July 1996 this was a valid descriptor.)

USE amines  
 USE developers  
 USE phenols

**AMINATION**

BT1 chemical reactions  
 RT deamination

**AMINE OXIDASES**

INIS: 1991-07-02; ETDE: 1981-01-12

Code numbers 1.4 and 1.5.

UF histaminase

\*BT1 oxidoreductases

**AMINES**

1996-10-23

UF amidol

UF amino alcohols

UF amino sugars

UF aminoglycides

UF aminopropiophenone-para

UF arsanilic acid

UF bromamines

UF butylamine

UF cephalins

UF congo red

UF cytriphos

UF ndpp

UF neocupferron

UF neutral red

UF papp

UF tna

UF toluylene red

UF trinonylamine

BT1 organic compounds

NT1 acridine orange

NT1 adenines

NT2 kinetin

NT1 aminopterin

NT1 amphetamines

NT2 benzedrine

NT1 aniline

NT1 benzidine

NT1 beta-aminoethyl isothiurea

NT1 bph

NT1 cadaverine

NT1 catecholamines

NT1 chlorambucil

NT1 chloramines

NT1 chlorpromazine

NT1 cupferron

NT1 cystamine

NT1 cystaphos

NT1 cysteamine

NT1 cytosine

NT1 deferoxamine

NT1 dopamine

NT1 ephedrine

NT1 flavines

NT2 acriflavine

NT2 proflavine

NT1 gammaphos

NT1 guanine

NT1 hexosamines

NT2 glucosamine

NT1 histamine

NT1 hydroxamic acids

NT2 benzohydroxamic acid

NT1 hydroxylamine

NT1 imipramine

NT1 luminol

NT1 melamine

NT1 methyl orange

NT1 methyl violet

NT1 methylamine

NT1 methylene blue

NT1 morpholines

NT1 mucopolysaccharides

NT2 chitin

NT2 chondroitin

NT2 heparin

NT2 hyaluronic acid

NT1 nitrogen mustard

NT1 nitrosamines

NT1 oximes

NT2 benzoinoxime

NT2 dimethylglyoxime

NT1 piperidines

NT2 dipyridamole

NT2 pethidine

NT2 triacetoneamine-n-oxyl

NT1 polycyclic aromatic amines

NT1 primene

NT1 putrescine

NT1 pyrrolidines

NT2 hydroxyproline

NT2 nicotine

NT2 proline

NT1 quaternary compounds

NT2 acetylcholine

NT2 betaine

NT2 choline

NT2 pyridinium compounds

NT1 rhodamines

NT1 spermidine

NT1 spermine

NT1 sulfanilic acid

NT1 taurine

NT1 tda

NT1 teta

NT1 tetryl

NT1 thiamine

NT1 thionine

NT1 toluidines

NT1 tridodecylamine

NT1 trioctylamine

NT1 trypan blue

NT1 tryptamines

NT2 melatonin

NT2 serotonin

NT3 bufotenine

NT1 tyramine

NT1 urotropin

RT amex process

RT eurex process

RT piperazines

RT sialic acid

RT tramex process

**AMINO ACID SEQUENCE**

INIS: 1993-08-03; ETDE: 1984-01-27

(Until August 1993, this concept was indexed by PROTEIN STRUCTURE.)

UF protein sequencing

BT1 molecular structure

RT protein engineering

RT protein structure

RT proteins

RT structural chemical analysis

**AMINO ACIDS**

1996-10-23

For carboxylic acids only.

UF aminoadipic acid

UF aminosalicic acid-para

UF cpdta

UF cyclopentanediarninetetraacetic acid

UF hexamethylenediaminetetraacetic acid

UF hmdta

UF homocystine

UF pas

\*BT1 carboxylic acids

NT1 alanines

NT2 alanine-alpha

NT3 alanine-l

NT2 alanine-beta

NT1 aminobutyric acid

NT1 aminolevulinic acid

NT1 anthranilic acid

NT1 arginine

NT1 asparagine

NT1 aspartic acid

NT1 betaine

NT1 carnitine

NT1 cdta

NT1 citrulline

NT1 creatine

NT1 cysteine

NT1 cystine

NT1 dcta

NT1 diiodotyrosine

NT1 dopa

NT1 dtpa

NT1 eddha

NT1 edta

NT1 ethionine

NT1 folic acid

NT1 glutamic acid

NT2 pyridoxylidene-glutamate

NT1 glutamine

NT1 glycine

NT1 glycyglycine

NT1 hedta

NT1 heida

NT1 hippuric acid

NT1 histidine

NT1 homocysteine

NT1 hydroxyproline

NT1 hydroxytryptophan

NT1 kynurenine

NT1 leucine

NT1 lysine

NT1 methionine

NT1 methyl red

NT1 methyl tyrosine

NT1 mimosine

NT1 mpg

NT1 nta

NT1 ornithine

NT1 paba

NT1 pantothenic acid

NT1 penicillamine

NT1 phenylalanine

NT1 phosphocreatine

NT1 proline

NT1 sarcosine

NT1 serine

NT1 tetaha

NT1 threonine

NT1 thyronine

NT1 thyroxine

NT1 tryptophan

NT1 tyrosine

NT1 valine

RT lactams

RT protein structure

RT proteins

**amino alcohols**

USE alcohols

USE amines

**amino sugars**

USE amines

USE saccharides

**aminoacetic acid**

USE glycine

**aminoadipic acid**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE amino acids

**aminobenzene**

USE aniline

**aminobenzenesulfonic acid-para**

USE sulfanilic acid

**aminobenzoic acid-ortho**

USE anthranilic acid

**aminobenzoic acid-para**

USE paba

**AMINOBTYRIC ACID**

- \*BT1 amino acids
- \*BT1 neuroregulators

**aminoethanesulfonic acid**

USE taurine

**aminoethanethiol**

USE cysteamine

**aminoethylisothiuronium bromide**

1984-06-21

USE beta-aminoethyl isothiurea

**aminoethylthiopseudourea**

USE beta-aminoethyl isothiurea

**aminoglutaric acid-alpha**

USE glutamic acid

**aminoglycides**

USE amines  
USE saccharides

**aminohypoxanthine**

USE guanine

**aminoisocaproic acid-alpha**

USE leucine

**aminoisovaleric acid-alpha**

USE valine

**AMINOLEVULINIC ACID**

\*BT1 amino acids

**AMINOPEPTIDASES**

INIS: 1986-12-03; ETDE: 1981-01-12  
Code numbers 3.4.11.

\*BT1 peptide hydrolases

**aminophenylacetic acid-alpha**

USE phenylalanine

**aminopropionic acid-alpha**

USE alanine-alpha

**aminopropionic acid-beta**

USE alanine-beta

**aminopropiophenone-para**

1996-07-18

(Prior to March 1997 PAPP was used for this concept in ETDE.)

USE amines  
USE ketones

**AMINOPTERIN**

\*BT1 amines  
\*BT1 antimetabolites  
\*BT1 antineoplastic drugs  
\*BT1 pteridines  
RT antimitotic drugs

**aminopyrine**

INIS: 1984-04-04; ETDE: 2002-06-07

USE antipyretics  
USE pyrazolines

**aminosalicylic acid-para**

1996-10-23

(Prior to March 1997 PAS was used for this concept in ETDE.)

USE amino acids

**aminosuccinamic acid-alpha**

USE asparagine

**aminosuccinic acid**

USE aspartic acid

**aminotoluenes**

USE toluidines

**AMINOTRANSFERASES**

Code number 2.6.1.

UF transaminases

\*BT1 nitrogen transferases

**amipaque**

INIS: 1981-08-06; ETDE: 1981-09-22

USE metrizamide

**amisol process**

2000-04-12

Process for complete desulfurization of gases with low carbon dioxide contents.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**AMMETERS**

\*BT1 electric measuring instruments

**AMMINES**

BT1 complexes  
RT ammonia

**AMMONIA**

\*BT1 nitrogen hydrides  
RT amines  
RT ammonolysis  
RT phosam process  
RT quaternary compounds  
RT refrigerants

**AMMONIA-AMMONIUM BISULFATE PROCESS**

INIS: 2000-04-12; ETDE: 1977-04-12

Regenerable process to remove sulfur dioxide from flue gas by absorption in an aqueous ammonium sulfite and bisulfite solution.

\*BT1 desulfurization  
RT waste processing

**AMMONIA FUEL CELLS**

1992-05-20

\*BT1 fuel cells

**AMMONIUM CARBONATES**

INIS: 1978-11-24; ETDE: 1978-12-20

BT1 ammonium compounds  
\*BT1 carbonates  
NT1 auc

**AMMONIUM CHLORIDES**

INIS: 1978-04-21; ETDE: 1975-12-16

\*BT1 ammonium halides  
\*BT1 chlorides

**AMMONIUM COMPLEXES**

INIS: 1981-12-23; ETDE: 1982-02-09

BT1 complexes

**AMMONIUM COMPOUNDS**

NT1 ammonium carbonates  
NT2 auc  
NT1 ammonium halides  
NT2 ammonium chlorides  
NT2 ammonium fluorides  
NT1 ammonium hydroxides  
NT1 ammonium nitrates  
NT1 ammonium perchlorates  
NT1 ammonium phosphates  
NT1 ammonium sulfates  
NT1 ammonium thiocyanates  
NT1 ammonium tungstates  
NT1 ammonium uranates  
NT2 adu  
NT1 quaternary compounds  
NT2 acetylcholine  
NT2 betaine  
NT2 choline  
NT2 pyridinium compounds

**ammonium diuranate**

USE adu

**AMMONIUM FLUORIDES**

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 ammonium halides  
\*BT1 fluorides

**AMMONIUM HALIDES**

INIS: 1984-01-18; ETDE: 1977-03-08

BT1 ammonium compounds  
\*BT1 halides  
NT1 ammonium chlorides  
NT1 ammonium fluorides

**AMMONIUM HYDROXIDES**

BT1 ammonium compounds  
\*BT1 hydroxides

**AMMONIUM NITRATES**

INIS: 1975-11-07; ETDE: 1975-12-16

BT1 ammonium compounds  
\*BT1 nitrates

**AMMONIUM PERCHLORATES**

INIS: 1989-04-20; ETDE: 1976-08-04

BT1 ammonium compounds  
\*BT1 perchlorates

**AMMONIUM PHOSPHATES**

INIS: 1981-02-27; ETDE: 1978-04-28

BT1 ammonium compounds  
\*BT1 phosphates

**AMMONIUM SULFATES**

INIS: 1977-03-01; ETDE: 1976-04-19

BT1 ammonium compounds  
\*BT1 sulfates

**AMMONIUM THIOCYANATES**

INIS: 1991-09-18; ETDE: 1982-09-10

BT1 ammonium compounds  
\*BT1 thiocyanates

**AMMONIUM TUNGSTATES**

INIS: 1978-07-17; ETDE: 1977-06-02

BT1 ammonium compounds  
\*BT1 tungstates

**AMMONIUM URANATES**

BT1 ammonium compounds  
\*BT1 uranates  
NT1 adu

**ammonium uranyl carbonates**

INIS: 1999-03-19; ETDE: 1979-11-23

USE auc

**AMMONOLYSIS**

\*BT1 solvolysis  
RT ammonia

**AMMUNITION**

INIS: 1999-03-02; ETDE: 1976-04-19

RT explosives  
RT guns  
RT military equipment  
RT missiles  
RT rockets  
RT weapons

**amnion**

USE fetal membranes

**amnion cells**

USE embryonic cells

**AMNIOTIC FLUID**

INIS: 1975-10-23; ETDE: 1975-12-16

\*BT1 body fluids  
RT embryos  
RT fetuses

**amobarbital**

1996-07-16

(Prior to August 1996 AMYTAL was used for this concept in ETDE.)

USE barbiturates

**amoco cba process**

INIS: 2000-04-12; ETDE: 1977-08-09

USE desulfurization

**amoco sulfur recovery process**

INIS: 2000-04-12; ETDE: 1976-01-23

*A process for recovery of elemental sulfur from process streams containing hydrogen sulfide.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**AMOEBIA**UF *ameba*

\*BT1 sarcodina

RT phagocytosis

**AMOEBIA EFFECT**

ETDE: 1975-09-11

*Unidirectional migration and penetration of the fuel kernel through the particle coating, caused by thermal stresses occurring in the course of irradiation.*UF *migration (kernel)*

RT coated fuel particles

RT failures

RT physical radiation effects

RT reliability

**AMORPHOUS STATE**

RT crystallization

RT metallic glasses

**AMORTIZATION**

INIS: 1993-07-28; ETDE: 1983-05-21

RT accounting

RT cancellation

RT financing

**AMP**UF *adenosine monophosphate*UF *camp*UF *cyclic adenosine monophosphate*

\*BT1 nucleotides

RT adenines

**AMP BEAM CURRENTS***From 1 to 1000 amp.*

\*BT1 beam currents

**AMPEROMETRY**

\*BT1 titration

**AMPHETAMINES**

INIS: 1985-03-15; ETDE: 1981-04-20

(Prior to April 1981, this concept in ETDE was indexed to BENZEDRINE.)

\*BT1 amines

\*BT1 analeptics

\*BT1 sympathomimetics

NT1 benzedrine

**AMPHIBIANS**UF *tadpoles*

BT1 aquatic organisms

\*BT1 vertebrates

NT1 frogs

NT1 salamanders

NT2 triturus

NT1 toads

RT aquatic ecosystems

RT larvae

**AMPHIBOLE***A group of dark, rock-forming, ferromagnesian silicate minerals closely related in crystal form and composition.*

\*BT1 silicate minerals

NT1 hornblende

**AMPHIBOLITES**

INIS: 2000-04-12; ETDE: 1980-08-12

\*BT1 metamorphic rocks

**AMPLIFICATION**

INIS: 1985-12-10; ETDE: 1981-08-04

NT1 gain

RT amplifiers

RT amplitudes

RT fluidic devices

**AMPLIFIERS**

1999-07-05

\*BT1 electronic equipment

NT1 ac amplifiers

NT1 dc amplifiers

NT1 dielectric amplifiers

NT1 high frequency amplifiers

NT1 lock-in amplifiers

NT1 magnetic amplifiers

NT1 microwave amplifiers

NT2 masers

NT1 operational amplifiers

NT1 parametric amplifiers

NT1 power amplifiers

NT1 preamplifiers

NT1 pulse amplifiers

NT1 transistor amplifiers

RT amplification

RT electronic circuits

RT gain

**AMPLITUDES**

NT1 scattering amplitudes

NT1 transition amplitudes

NT2 decay amplitudes

RT amplification

RT dimensions

RT mechanical vibrations

RT oscillations

RT wave propagation

**amso**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE organic solvents

**amygdalic acid**

USE mandelic acid

**amyl acetate**

INIS: 1984-04-04; ETDE: 2002-06-07

USE acetic acid esters

**amyl alcohols**

USE pentanols

**amyl radicals**

USE pentyl radicals

**AMYLASE***Code numbers 3.2.1.1, 3.2.1.2, and 3.2.1.3.*UF *isoamylase*

\*BT1 o-glycosyl hydrolases

RT digestion

RT pancreas

RT saliva

**amylum**

USE starch

**amytal**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE barbiturates

**ANABOLISM**

BT1 metabolism

RT androgens

RT biosynthesis

RT sth

**anaconda uranium mill**

INIS: 1996-07-16; ETDE: 1979-12-17

(Until July 1996 this was a valid descriptor.)

USE feed materials plants

**ANADROMOUS FISHES**

INIS: 1991-08-09; ETDE: 1983-03-07

*Fishes that ascend fresh-water streams from the sea to spawn.*

\*BT1 fishes

NT1 salmon

NT1 striped bass

RT fish passage facilities

RT ichthyoplankton

**ANAEROBIC CONDITIONS**

INIS: 1983-02-04; ETDE: 1975-11-28

RT anaerobic digestion

RT biodegradation

RT decomposition

RT dissolved gases

RT oxygen enhancement ratio

RT *zymomonas mobilis***ANAEROBIC DIGESTION**

INIS: 1997-06-19; ETDE: 1975-07-29

(From October 1978 to February 1997 CELL RECYCLE was a valid ETDE descriptor.)

SF *cell recycle*SF *microbial processes*

BT1 bioconversion

BT1 digestion

NT1 biogas process

RT anaerobic conditions

RT batch culture

RT continuous culture

RT fermentation

RT mesophilic conditions

RT microorganisms

RT semibatch culture

RT sewage sludge

RT synthetic fuels

RT thermophilic conditions

RT waste processing

**analcime**

1984-04-04

*A white or slightly colored zeolite mineral.*

(Prior to March 1996 this was a valid ETDE descriptor.)

USE zeolites

**ANALEPTICS**

INIS: 1984-05-24; ETDE: 1981-04-20

UF *central nervous system stimulants*UF *cns stimulants*UF *stimulants (central nervous system)*

\*BT1 central nervous system agents

NT1 amphetamines

NT2 benzedrine

NT1 caffeine

RT psychotropic drugs

**ANALGESICS**

1996-07-08

UF *acetophenetidin*UF *phenacetin*

\*BT1 central nervous system depressants

NT1 acetylsalicylic acid

NT1 antipyrine



NT1 codeine  
 NT1 opium  
 NT2 morphine  
 NT3 thebaine  
 NT1 pethidine  
 RT anesthetics  
 RT antipyretics  
 RT hypnotics and sedatives  
 RT narcotics  
 RT pain

**ANALOG COMPUTERS**

BT1 computers

**analog resonances (isobaric)**

USE isobaric analogs  
 USE resonance

**analog resonances (strangeness)**

USE strangeness analog resonances

**analog states**

USE isobaric analogs

**ANALOG SYSTEMS**

NT1 simulators  
 NT2 reactor simulators  
 NT2 solar simulators  
 RT analog-to-digital converters  
 RT biological models  
 RT computers  
 RT digital-to-analog converters  
 RT electronic circuits  
 RT electronic equipment  
 RT functional models  
 RT real time systems

**ANALOG-TO-DIGITAL CONVERTERS**

UF converters (analog-digital)  
 \*BT1 electronic equipment  
 RT analog systems  
 RT digital systems  
 RT digitizers

**analysis (activation)**

USE activation analysis

**analysis (charged-particle activation)**

INIS: 1993-11-03; ETDE: 2002-06-07  
 USE charged-particle activation analysis

**analysis (fourier)**

USE fourier analysis

**analysis (gas)**

USE gas analysis

**analysis (load)**

INIS: 1999-04-22; ETDE: 2002-06-07  
 USE load analysis

**analysis (neutron activation)**

INIS: 1978-11-24; ETDE: 2002-06-07  
 USE neutron activation analysis

**analysis (normal-mode)**

USE normal-mode analysis

**analysis (nuclear reaction)**

INIS: 1986-01-21; ETDE: 2002-06-07  
 Chemical analysis based on detection and analysis of prompt nuclear reaction products.  
 USE nuclear reaction analysis

**analysis (photon activation)**

INIS: 1978-11-24; ETDE: 2002-06-07  
 USE photon activation analysis

**analysis (qualitative chemical)**

USE qualitative chemical analysis

**analysis (quantitative chemical)**

USE quantitative chemical analysis

**analysis (structural chemical)**

USE structural chemical analysis

**analysis (thermal)**

USE thermal analysis

**ANALYTIC FUNCTIONS**

BT1 functions  
 RT continued fractions  
 RT mathematical evolution  
 RT s matrix

**ANALYTICAL SOLUTION**

For the procedure only.  
 BT1 mathematical solutions  
 RT differential equations  
 RT galerkin-petrov method

**analyzers (pulse)**

USE pulse analyzers

**analyzing power**

USE polarization-asymmetry ratio

**anaphase**

USE mitosis

**ANAPHYLAXIS**

RT allergy  
 RT antigen-antibody reactions  
 RT biological shock  
 RT immunity

**ANASTREPHA**

INIS: 1999-02-19; ETDE: 1999-11-18  
 UF south american fruit fly  
 \*BT1 fruit flies

**ANATOMY**

BT1 biology  
 RT body  
 RT physiology

**anbn**

USE 1-nitroso-2-naphthol

**anchoring**

See also MOORINGS.  
 USE fastening

**ANCHORS**

INIS: 1999-03-02; ETDE: 1975-09-11  
 (Until March 1999 this concept was indexed by FASTENERS.)  
 RT fasteners

**andco-torrax slagging pyrolysis system**

INIS: 1999-09-20; ETDE: 1977-10-20  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 SEE slagging pyrolysis process

**andersonite**

1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE carbonate minerals  
 USE uranium minerals

**ANDES**

UF cordillera de los andes  
 BT1 mountains  
 RT argentina  
 RT bolivia  
 RT chile  
 RT colombia  
 RT ecuador  
 RT peru  
 RT venezuela

**ANDESITES**

INIS: 2000-04-12; ETDE: 1975-10-28  
 Volcanic rocks composed essentially of andesine and one or more mafic constituents.  
 \*BT1 volcanic rocks

**andradite**

1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE garnets

**androgen antagonists**

INIS: 2000-04-12; ETDE: 1981-04-20  
 USE antiandrogens

**ANDROGENS**

1996-10-23  
 UF dianabol  
 \*BT1 androstanes  
 \*BT1 steroid hormones  
 NT1 androstenedione  
 NT1 androsterone  
 NT1 hydroxyandrosterone  
 NT1 testosterone  
 RT adrenal glands  
 RT adrenal hormones  
 RT anabolism  
 RT antiandrogens  
 RT castration  
 RT corticosteroids  
 RT luteinizing hormone  
 RT testes  
 RT urinary ketosteroids

**ANDROSTANES**

\*BT1 steroids  
 NT1 androgens  
 NT2 androstenedione  
 NT2 androsterone  
 NT2 hydroxyandrosterone  
 NT2 testosterone

**ANDROSTENEDIONE**

\*BT1 androgens  
 \*BT1 ketones

**ANDROSTERONE**

\*BT1 androgens  
 \*BT1 hydroxy compounds  
 \*BT1 ketones

**ANEMIAS**

UF aplastic anemia  
 UF pernicious anemia  
 \*BT1 hemic diseases  
 BT1 symptoms  
 NT1 ischemia  
 NT1 megaloblastic anemia  
 NT1 sickle cell anemia  
 NT1 thalassemia  
 RT erythrocytes  
 RT folic acid  
 RT hemoglobin  
 RT hemolysis  
 RT hemorrhage  
 RT intrinsic factor  
 RT vitamin b-12

**ANEMOMETERS**

BT1 measuring instruments  
 NT1 hot wire anemometers  
 NT1 laser doppler anemometers  
 RT flowmeters

**ANESTHESIA**

RT anesthetics  
 RT central nervous system depressants  
 RT medicine  
 RT pain  
 RT surgery

**ANESTHETICS**

- \*BT1 central nervous system depressants
- NT1 barbiturates
- NT2 nembutal
- NT2 phenobarbital
- NT1 cocaine
- NT1 procaine
- RT analgesics
- RT anesthesia
- RT chloroform
- RT ethyl ether
- RT hypnotics and sedatives
- RT narcotics
- RT nitrous oxide

**ANEUPLOIDY**

- BT1 ploidy
- RT genome mutations
- RT non-disjunction

**ANEX REACTOR**

- UF *cfg reactor*
- \*BT1 enriched uranium reactors
- \*BT1 hydride moderated reactors
- \*BT1 solid homogeneous reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**ANGARA-5 DEVICE**

- INIS: 1984-08-24; ETDE: 1989-06-23
- \*BT1 icf devices

**angiography**

- USE biomedical radiography
- USE blood vessels

**ANGIOMAS**

- UF *hemangiomas*
- \*BT1 carcinomas
- RT blood vessels
- RT lymph vessels

**angiosperms**

- INIS: 2000-04-12; ETDE: 1988-12-21
- USE magnoliophyta

**ANGIOTENSIN**

- \*BT1 globulins
- \*BT1 vasoconstrictors

**angle (bond)**

- INIS: 2000-04-12; ETDE: 1980-11-08
- USE bond angle

**angle (incidence)**

- INIS: 1984-04-04; ETDE: 1980-11-08
- USE incidence angle

**angle of incidence**

- INIS: 1984-04-04; ETDE: 1980-01-24
- USE incidence angle

**angle of inclination**

- INIS: 2000-04-12; ETDE: 1979-09-26
- USE inclination

**ANGOLA**

- BT1 africa
- BT1 developing countries

**ANGRA-1 REACTOR**

- Angra Dosreis, Rio de Janeiro, Brazil.*
- \*BT1 pwr type reactors

**ANGRA-2 REACTOR**

- INIS: 1977-06-14; ETDE: 1977-10-19
- Angra Dosreis, Rio de Janeiro, Brazil.*
- \*BT1 pwr type reactors

**ANGRA-3 REACTOR**

- INIS: 1977-06-14; ETDE: 1977-10-19
- Angra Dosreis, Rio de Janeiro, Brazil.*
- \*BT1 pwr type reactors

**ANGULAR CORRELATION**

- 1996-07-16
- (Prior to August 1996 BIEDENHARN-ROSE THEORY was a valid ETDE descriptor.)
- UF *directional correlation*
- SF *biedenharn-rose theory*
- BT1 correlations
- NT1 perturbed angular correlation
- NT2 differential pac
- NT2 integral pac
- RT abragam-pound theory
- RT angular distribution
- RT decay
- RT particle kinematics

**ANGULAR DISTRIBUTION**

- 1999-02-23
- (Prior to August 1996 BIEDENHARN-ROSE THEORY and MINAMI AMBIGUITY were valid ETDE descriptors; prior to March 1997 HALPERN-STRUTINSKI THEORY was a valid ETDE descriptor.)
- SF *biedenharn-rose theory*
- SF *halpern-strutinski theory*
- SF *minami ambiguity*
- BT1 distribution
- RT abragam-pound theory
- RT alder-winter theory
- RT angular correlation
- RT backscattering
- RT blatt-biedenharn formalism
- RT castagnoli formula
- RT differential cross sections
- RT emission
- RT incidence angle
- RT lambert law
- RT marshak boundary conditions
- RT milne problem
- RT small angle scattering
- RT space dependence
- RT spatial distribution
- RT transverse energy
- RT yang theorem

**ANGULAR MOMENTUM**

- 1999-02-23
- (Prior to March 1997 GYROELECTRIC RATIO was a valid ETDE descriptor.)
- UF *momentum (angular)*
- SF *gyroelectric ratio*
- NT1 orbital angular momentum
- NT1 spin
- RT angular momentum operators
- RT backbending
- RT chirality
- RT clebsch-gordan coefficients
- RT d waves
- RT f waves
- RT gyromagnetic ratio
- RT helicity
- RT kinetic energy
- RT linear momentum
- RT motion
- RT p waves
- RT partial waves
- RT quantum mechanics
- RT racah coefficients
- RT rotation
- RT s waves
- RT wigner coefficients
- RT yrast states

**ANGULAR MOMENTUM OPERATORS**

- \*BT1 quantum operators
- NT1 orbital momentum operators
- NT1 pauli spin operators
- RT angular momentum

**ANGULAR MOMENTUM TRANSFER**

- INIS: 1978-09-28; ETDE: 1978-10-19
- UF *transfer (angular momentum)*
- BT1 momentum transfer
- RT energy transfer

**ANGULAR VELOCITY**

- BT1 velocity

**ANHARMONIC CRYSTALS**

- BT1 crystals
- RT coherent scattering
- RT inelastic scattering
- RT lattice vibrations

**ANHARMONIC OSCILLATORS**

- INIS: 1981-08-06; ETDE: 1979-09-26
- RT equations of motion
- RT harmonic oscillators
- RT mathematics
- RT mechanics

**ANHYRIDES**

- RT bases
- RT inorganic acids
- RT organic acids
- RT water

**ANHYDRITE**

- 1982-10-29
- Mineral consisting of an anhydrous calcium sulfate.*
- \*BT1 sulfate minerals
- RT calcium sulfates
- RT gypsum

**ANILINE**

- UF *aminobenzene*
- UF *phenylamine*
- \*BT1 amines
- \*BT1 aromatics
- RT benzene
- RT polycyclic aromatic amines

**ANIMAL BREEDING**

- NT1 mass rearing
- RT agriculture
- RT domestic animals
- RT genetics
- RT nests
- RT nutrition
- RT progeny
- RT radiation induced mutants
- RT reproduction

**ANIMAL CELLS**

- Includes human cells.*
- UF *cell growth (animal)*
- UF *cells (animal)*
- UF *human cells*
- UF *melanocytes*
- UF *pigment cells*
- NT1 embryonic cells
- NT1 hair follicles
- NT1 hybridomas
- NT1 somatic cells
- NT2 cho cells
- NT2 connective tissue cells
- NT3 bone cells
- NT3 bone marrow cells
- NT3 fat cells
- NT3 fibroblasts
- NT3 lymphocytes
- NT3 macrophages
- NT3 mast cells
- NT3 plasma cells
- NT2 crypt cells
- NT2 liver cells
- NT2 nerve cells
- NT2 phagocytes
- NT3 macrophages

NT2 respiratory tract cells  
 NT2 spleen cells  
 NT2 stem cells  
 NT2 thymocytes  
 NT2 thymus cells  
 NT2 thyroid cells

NT1 tumor cells  
 NT2 ascites tumor cells  
 NT2 hela cells

NT1 xp cells  
 RT cell constituents  
 RT cell cultures  
 RT cell flow systems  
 RT clone cells  
 RT colony formation  
 RT cytology  
 RT homogenates  
 RT intracellular digestion

**ANIMAL FEEDS**

UF fodder  
 BT1 food  
 NT1 forage  
 RT diet  
 RT distillers dried grains  
 RT food additives  
 RT molasses  
 RT nutrition

**ANIMAL GROWTH**

BT1 growth  
 RT animals  
 RT metamorphosis  
 RT molting  
 RT ontogenesis  
 RT rearing

**ANIMAL SHELTERS**

INIS: 1992-08-24; ETDE: 1977-06-21

BT1 buildings  
 BT1 shelters

**ANIMAL TISSUES**

INIS: 1996-03-14; ETDE: 1980-11-24  
 (Until March 1996 this concept was indexed to TISSUES.)

UF human tissues  
 UF muscular tissue  
 SF tissues  
 BT1 body  
 NT1 bone marrow  
 NT1 connective tissue  
 NT2 adipose tissue  
 NT2 bone tissues  
 NT3 antlers  
 NT3 trabecular bone  
 NT2 cartilage  
 NT2 fascia  
 NT2 ligaments  
 NT2 tendons  
 NT1 endothelium  
 NT1 epithelium  
 NT2 epidermis  
 NT1 nerve tissue  
 NT1 perfused tissues  
 NT1 reticuloendothelial system  
 RT biological materials  
 RT biological regeneration  
 RT biology  
 RT biopsy  
 RT capillaries  
 RT histological techniques  
 RT histology  
 RT homogenates  
 RT in vivo  
 RT morphological changes  
 RT organs  
 RT plant tissues  
 RT retention  
 RT skin

RT tissue cultures  
 RT tissue distribution  
 RT tissue-equivalent materials  
 RT tissue extracts

**ANIMALS**

NT1 domestic animals  
 NT2 cattle  
 NT3 calves  
 NT3 cows  
 NT2 goats  
 NT2 sheep  
 NT2 swine  
 NT3 miniature swine

NT1 germ-free animals

NT1 invertebrates  
 NT2 annelids  
 NT2 arthropods  
 NT3 arachnids  
 NT4 mites  
 NT4 scorpions  
 NT4 spiders  
 NT4 ticks  
 NT3 crustaceans  
 NT4 branchiopods  
 NT5 artemia  
 NT5 daphnia  
 NT4 copepods  
 NT4 decapods  
 NT5 crabs  
 NT5 lobsters  
 NT5 prawns  
 NT5 shrimp  
 NT3 insects

NT4 coleoptera  
 NT5 beetles  
 NT6 boll weevil  
 NT6 tribolium  
 NT4 dictyoptera  
 NT5 cockroaches  
 NT4 diptera  
 NT5 flies  
 NT6 fruit flies  
 NT7 anastrepha  
 NT7 ceratitis capitata  
 NT7 dacus  
 NT8 dacus oleae  
 NT7 drosophila  
 NT6 glossina  
 NT6 hylemya antiqua  
 NT6 screwworm fly

NT5 mosquitoes  
 NT4 ephemeroptera  
 NT4 hemiptera  
 NT5 aphids  
 NT4 hymenoptera  
 NT5 ants  
 NT5 bees  
 NT5 wasps  
 NT4 lepidoptera  
 NT5 moths  
 NT6 bollworm  
 NT6 codling moth  
 NT6 lymantria dispar  
 NT6 rice stem borers  
 NT6 silkworm

NT4 orthoptera  
 NT5 grasshoppers  
 NT6 locusts

NT2 bryozoa  
 NT2 coelenterata  
 NT3 cnidaria  
 NT4 corals  
 NT4 hydra  
 NT2 echinoderms  
 NT3 sea urchins  
 NT2 molluscs  
 NT3 clams  
 NT3 mussels

NT3 oysters  
 NT3 snails  
 NT2 nematodes  
 NT3 ascaridae  
 NT4 ascaris  
 NT3 dictyocaulus  
 NT3 hookworm  
 NT3 trichinella  
 NT2 platyhelminths  
 NT3 cestodes  
 NT3 trematodes  
 NT4 fasciola  
 NT4 schistosoma  
 NT3 turbellaria  
 NT4 planaria  
 NT2 protozoa  
 NT3 ciliata  
 NT4 paramecium  
 NT4 tetrahymena  
 NT3 mastigophora  
 NT4 dinoflagellate  
 NT4 euglena  
 NT4 trypanosoma  
 NT3 sarcodina  
 NT4 amoeba  
 NT4 foraminifera  
 NT3 sporozoa  
 NT4 babesidae  
 NT4 plasmodium  
 NT2 rotifera  
 NT1 laboratory animals  
 NT1 neonates  
 NT1 transgenic animals  
 NT2 transgenic mice  
 NT1 vertebrates  
 NT2 amphibians  
 NT3 frogs  
 NT3 salamanders  
 NT4 triturus  
 NT3 toads  
 NT2 birds  
 NT3 fowl  
 NT4 chickens  
 NT4 ducks  
 NT4 geese  
 NT3 pigeons  
 NT2 fishes  
 NT3 anadromous fishes  
 NT4 salmon  
 NT4 striped bass  
 NT3 codfish  
 NT3 eel  
 NT3 fathead minnow  
 NT3 goldfish  
 NT3 plaice  
 NT3 trout  
 NT3 tuna  
 NT2 mammals  
 NT3 bats  
 NT3 bears  
 NT3 burros  
 NT3 cats  
 NT3 cetaceans  
 NT3 coyotes  
 NT3 dogs  
 NT4 beagles  
 NT3 foxes  
 NT3 horses  
 NT3 marsupials  
 NT3 otters  
 NT3 pinnipeds  
 NT3 primates  
 NT4 apes  
 NT4 man  
 NT5 children  
 NT6 infants  
 NT5 elderly people  
 NT5 men  
 NT5 women

**NT4** monkeys  
**NT5** baboons  
**NT5** macacus  
**NT3** rabbits  
**NT3** rodents  
**NT4** gerbils  
**NT4** guinea pigs  
**NT4** hamsters  
**NT4** mice  
**NT5** transgenic mice  
**NT4** prairie dogs  
**NT4** rats  
**NT4** squirrels  
**NT4** voles  
**NT3** ruminants  
**NT4** buffalo  
**NT4** camels  
**NT4** cattle  
**NT5** calves  
**NT5** cows  
**NT4** deer  
**NT4** goats  
**NT4** llamas  
**NT4** sheep  
**NT3** shrews  
**NT3** swine  
**NT4** miniature swine  
**NT3** wolves  
**NT2** reptiles  
**NT3** alligators  
**NT3** lizards  
**NT3** snakes  
**NT3** turtles  
**NT1** wild animals  
*RT* animal growth  
*RT* aquatic organisms  
*RT* biological extinction  
*RT* biological materials  
*RT* biology  
*RT* ecology  
*RT* endangered species  
*RT* females  
*RT* fossils  
*RT* males  
*RT* species diversity  
*RT* symbiosis  
*RT* veterinary medicine

**ANIONS**

(From May 1981 to February 1997 CARBANIONS was a valid ETDE descriptor.)

*UF* carbanions  
*UF* hydroxyl ions  
*UF* negative ions  
**\*BT1** ions  
**NT1** heteropolyanions  
**NT1** hydrogen ions 1 minus  
*RT* chemical state  
*RT* electrolysis  
*RT* ion beams  
*RT* ion exchange materials

**ANISOLE**

*UF* methoxybenzene  
*UF* methyl phenyl ether  
*UF* phenyl methyl ether  
**\*BT1** ethers

**ANISOTROPY**

*RT* asymmetry  
*RT* configuration  
*RT* distribution  
*RT* isotropy  
*RT* mass distribution  
*RT* orientation  
*RT* sherman tables  
*RT* transverse energy

**anisyl radicals**

1996-07-16  
 (Until July 1996 this was a valid descriptor.)  
 USE aryl radicals

**ANKERITE**

*INIS*: 2000-04-12; *ETDE*: 1975-11-28  
*A dolomitic iron-containing mineral.*  
*SF* pearl spar  
**\*BT1** carbonate minerals  
*RT* calcium carbonates  
*RT* iron carbonates  
*RT* magnesium carbonates  
*RT* manganese carbonates

**ankylosing spondylitis**

USE spondylitis

**ANL**

*UF* argonne national laboratory  
**\*BT1** us aec  
**\*BT1** us doe  
**\*BT1** us erda  
*RT* illinois

**anl zero power research reactor-3**

*INIS*: 1993-11-03; *ETDE*: 2002-06-07  
 USE zpr-3 reactor

**anl zero power research reactor-6**

*INIS*: 1993-11-03; *ETDE*: 2002-06-07  
 USE zpr-6 reactor

**anl zero power research reactor-9**

*INIS*: 1993-11-03; *ETDE*: 2002-06-07  
 USE zpr-9 reactor

**anmr**

USE acoustic nmr

**ANNA REACTOR**

*Institute of Nuclear Research, Swierk, Poland.*  
*UF* swierk anna reactor  
**\*BT1** enriched uranium reactors  
**\*BT1** graphite moderated reactors  
**\*BT1** research reactors  
**\*BT1** thermal reactors  
**\*BT1** water cooled reactors  
**\*BT1** water moderated reactors  
**\*BT1** zero power reactors

**ANNEALING**

**BT1** heat treatments  
*RT* recrystallization  
*RT* stress relaxation

**anneau de collisions d'orsay**

2005-01-25  
 USE orsay storage rings

**ANNELIDS**

*UF* earthworms  
*UF* worms (segmented)  
**\*BT1** invertebrates

**annie event**

*INIS*: 1994-10-13; *ETDE*: 1981-07-06  
*A test made during the UPSHOT PROJECT.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE atmospheric explosions  
 USE nuclear explosions

**ANNIHILATION**

*SF* disintegration (nuclear particles)  
**\*BT1** particle interactions  
*RT* electromagnetic interactions  
*RT* gribov-lipatov relation  
*RT* strong interactions

**ANNIHILATION OPERATORS**

*UF* coherent states

**\*BT1** quantum operators  
*RT* second quantization  
*RT* vacuum states

**ANNUAL CYCLE ENERGY SYSTEM**

*INIS*: 2000-04-12; *ETDE*: 1975-11-11  
*UF* annual energy storage  
*RT* air conditioning  
*RT* heating  
*RT* space heating  
*RT* water heaters

**annual energy storage**

*INIS*: 2000-04-12; *ETDE*: 1979-04-12  
 (Prior to March 1996 this was a valid ETDE descriptor.)  
 USE annual cycle energy system  
 USE energy storage

**ANNUAL LIMIT OF INTAKE**

*INIS*: 1985-04-23; *ETDE*: 1984-09-21  
*The greatest value of the annual intake of a given radionuclide which corresponds to a whole-body dose commitment of less than or equal to 5 rem and tissue dose commitment of less than or equal to 50 rem.*  
*UF* ali  
**\*BT1** safety standards  
*RT* critical organs  
*RT* intake  
*RT* radiation protection  
*RT* radioactivity

**ANNUAL VARIATIONS**

**BT1** variations

**annular core pulse reactor**

USE acpr reactor

**annular core research reactor**

*INIS*: 2000-04-12; *ETDE*: 1979-10-23  
 USE acpr reactor

**ANNULAR FUEL ELEMENTS**

**\*BT1** fuel elements  
*RT* fuel washers

**ANNULAR SPACE**

**BT1** configuration  
**BT1** space  
**NT1** toroidal configuration  
*RT* tori

**ANODES**

**BT1** electrodes  
**NT1** hollow anodes  
**NT1** photoanodes  
*RT* thermionic collectors

**ANODIZATION**

**BT1** corrosion protection  
**\*BT1** electrochemical coating  
**\*BT1** electrolysis

**ANOMALONS**

*INIS*: 1984-10-23; *ETDE*: 1984-05-08  
*Projectile fragments from relativistic heavy ion reactions with anomalously short mean free paths.*  
**BT1** nuclear fragments  
*RT* heavy ion reactions  
*RT* mean free path

**ANOMALOUS DIMENSION**

*UF* non-canonical dimension  
*UF* noncanonical dimension  
**BT1** scale dimension

**anopheles**

USE mosquitoes

**ANOREXIA**

*RT* digestive system

RT digestive system diseases

**ANORTHITE**

INIS: 2000-04-12; ETDE: 1981-04-17

A plagioclase feldspar.

\*BT1 feldspars

**ANORTHOSITES**

A group of essentially monomineralic plutonic igneous rocks composed almost entirely of plagioclase feldspar.

UF plagioclase

UF plagioclase

\*BT1 gabbros

RT feldspars

RT lunar materials

RT olivine

**ANOXIA**

UF hypoxia

RT biological stress

RT ischemia

RT oxidation

RT oxygen

RT respiration

**ANSTO**

INIS: 1996-01-30; ETDE: 1988-11-01

Australian Nuclear Science and Technology Organization, created on 27 April 1987 and replacing the AAEC.

UF aaec

UF australian atomic energy commission

\*BT1 australian organizations

**ANTARCTIC OCEAN**

INIS: 1992-07-13; ETDE: 1992-06-18

The southern waters of the Atlantic, Pacific and Indian oceans.

(Prior to June 1992 SEAS was used for this concept in ETDE.)

\*BT1 seas

NT1 weddell sea

RT antarctic regions

RT antarctica

**ANTARCTIC REGIONS**

\*BT1 polar regions

NT1 antarctica

RT antarctic ocean

RT arctic regions

RT auroral zones

RT climates

RT glaciers

RT ice

RT ice caps

RT polar-cap aurorae

RT snow

**ANTARCTICA**

\*BT1 antarctic regions

RT antarctic ocean

**ANTARES FACILITY**

INIS: 1995-03-28; ETDE: 1978-09-11

Large CO<sub>2</sub> laser facility to be used at Los Alamos for laser fusion.

RT aurora facility

RT carbon dioxide lasers

RT helios facility

RT lanl

RT laser fusion reactors

**ANTARES TANDEM ACCELERATOR**

INIS: 1995-03-31; ETDE: 1998-07-07

Lucas Heights Research Laboratory, Australia.

\*BT1 tandem electrostatic accelerators

**antelopes**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE ruminants

**ANTENNAS**

1999-02-26

\*BT1 electrical equipment

NT1 radio telescopes

NT1 rectennas

RT radio equipment

**anthers**

USE stamen

**anthonomus grandis**

USE boll weevil

**ANTHRACENE**

\*BT1 condensed aromatics

\*BT1 hydrocarbons

RT anthraquinones

RT organic crystal phosphors

RT plastic scintillators

**ANTHRACITE**

UF hard coal

\*BT1 black coal

RT culm

**ANTHRANILIC ACID**

UF aminobenzoic acid-ortho

\*BT1 amino acids

**ANTHRAQUINONES**

\*BT1 quinones

NT1 alizarin

NT1 carminic acid

NT1 quinizarin

RT anthracene

RT dyes

**anthraquinonic acid**

USE alizarin

**ANTHROPOLOGY**

INIS: 1993-06-07; ETDE: 1976-05-13

The study of the interrelations of biological, cultural, geographical, and historical aspects of man.

RT human populations

RT man

RT sociology

**ANTI-B NEUTRAL MESONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 b neutral mesons

\*BT1 pseudoscalar antimesons

**ANTI-D NEUTRAL MESONS**

INIS: 1987-12-21; ETDE: 1989-02-10

\*BT1 d neutral mesons

\*BT1 pseudoscalar antimesons

**ANTI DE SITTER GROUP**

2007-08-13

\*BT1 lie groups

RT anti de sitter space

**ANTI DE SITTER SPACE**

2007-08-13

\*BT1 mathematical space

RT anti de sitter group

RT lorentz groups

RT space-time

RT string theory

RT superstring theory

**ANTI-INFECTIVE AGENTS**

INIS: 1992-02-24; ETDE: 1981-04-20

BT1 drugs

NT1 antibiotics

NT2 actinomycin

NT2 bleomycin

NT2 chloramphenicol

NT2 cycloheximide

NT2 doxorubicin

NT2 erythromycin

NT2 mitomycin

NT2 neocarcinostatin

NT2 neomycin

NT2 penicillin

NT2 puromycin

NT2 streptomycin

NT2 streptozocin

NT2 tetracyclines

NT3 oxytetracycline

NT2 valinomycin

NT1 antimicrobial agents

NT2 fudr

NT2 isoniazid

NT2 methylene blue

NT2 quinine

NT2 sulfonamides

RT antimetabolic drugs

RT infectious diseases

RT microorganisms

RT pathogens

**anti-inflammatory agents**

INIS: 2000-04-12; ETDE: 1981-04-20

USE antipyretics

**anti-missile systems**

INIS: 2000-04-12; ETDE: 1984-11-29

USE space weapons

**anti-satellite systems**

INIS: 2000-04-12; ETDE: 1984-11-29

USE space weapons

**ANTIANDROGENS**

INIS: 1979-09-18; ETDE: 1979-10-23

UF androgen antagonists

BT1 drugs

RT androgens

RT biochemistry

RT chemotherapy

RT pharmacology

RT physiology

**ANTIBARYONS**

\*BT1 antiparticles

\*BT1 baryons

NT1 antihyperons

NT2 antilambda particles

NT2 antiomega particles

NT2 antisigma particles

NT2 antixi particles

NT1 antinucleons

NT2 antineutrons

NT2 antiprotons

**ANTIBIOTICS**

1996-10-22

(From June 1981 till March 1997

ANTIMYCIN was a valid ETDE descriptor.)

UF antimycin

\*BT1 anti-infective agents

BT1 organic compounds

NT1 actinomycin

NT1 bleomycin

NT1 chloramphenicol

NT1 cycloheximide

NT1 doxorubicin

NT1 erythromycin

NT1 mitomycin

NT1 neocarcinostatin

NT1 neomycin

NT1 penicillin

NT1 puromycin

NT1 streptomycin

NT1 streptozocin

- NT1** tetracyclines  
**NT2** oxytetracycline  
**NT1** valinomycin  
*RT* antimitotic drugs  
*RT* antineoplastic drugs  
*RT* bacterial diseases  
*RT* germicides  
*RT* infectious diseases  
*RT* microorganisms  
*RT* mutagens
- ANTIBODIES**  
**NT1** agglutinins  
**NT2** hemagglutinins  
**NT3** concanavalin a  
**NT3** phytohemagglutinin  
**NT1** antitoxins  
**NT1** hemolysins  
**NT1** monoclonal antibodies  
**NT1** precipitins  
*RT* antigen-antibody reactions  
*RT* antigens  
*RT* complement  
*RT* enzyme immunoassay  
*RT* immune serums  
*RT* immunity  
*RT* lectins  
*RT* radioimmunoassay  
*RT* radioimmunoassay  
*RT* radioimmunoassay  
*RT* radioimmunoassay  
*RT* toxoids
- ANTIBODY FORMATION**  
*RT* antigen-antibody reactions  
*RT* germ-free animals  
*RT* immunity
- ANTICLINES**  
*INIS: 2000-01-21; ETDE: 1977-09-19*  
*Folds, the cores of which contain the stratigraphically older rocks; they are convex upward.*  
**BT1** geologic structures  
*RT* petroleum deposits  
*RT* salt deposits
- ANTICOAGULANTS**  
*1996-07-18*  
 (COUMARINS and DICUMAROL have been valid ETDE descriptors.)  
*UF dicumarol*  
*SF coumarins*  
**\*BT1** hematologic agents  
**NT1** coumarin  
**NT1** heparin  
**NT1** psoralen  
*RT* blood coagulation  
*RT* coagulants  
*RT* fibrinolysin  
*RT* fibrinolytic agents  
*RT* hematinics  
*RT* vitamin k
- ANTICOINCIDENCE**  
*Detector arrangement.*  
*RT* coincidence circuits  
*RT* counting techniques
- ANTICONVULSANTS**  
*INIS: 1984-05-24; ETDE: 1979-11-23*  
*Used extensively in suppressing the side effects of radiotherapy involving portions of the central nervous system.*  
**\*BT1** central nervous system depressants  
**NT1** phenobarbital  
*RT* radiotherapy
- anticorrosion**  
*USE* corrosion protection

- ANTIDEPRESSANTS**  
*INIS: 1996-07-18; ETDE: 1981-04-20*  
 (Prior to April 1981 this concept in ETDE was indexed to PSYCHOTROPIC DRUGS.)  
*UF iproniazid*  
**\*BT1** psychotropic drugs  
**NT1** cocaine  
**NT1** imipramine

**ANTIDEUTERON REACTIONS**

- INIS: 1988-11-16; ETDE: 1988-12-02*  
**\*BT1** deutron reactions  
*RT* antideuterons

**ANTIDEUTERONS**

- \*BT1** antinuclei  
**\*BT1** deuterons  
*RT* antideutron reactions

**antidiuretic hormone**

- USE* vasopressin

**ANTIFERROELECTRIC****MATERIALS**

- UF materials (antiferroelectric)*  
**\*BT1** dielectric materials  
*RT* ferroelectric materials

**ANTIFERROMAGNETIC****MATERIALS**

- UF materials (antiferromagnetic)*  
**\*BT1** magnetic materials  
*RT* ferromagnetic materials  
*RT* kondo effect

**ANTIFERROMAGNETISM**

- BT1** magnetism  
**NT1** mictomagnetism  
*RT* ferrimagnetism  
*RT* ferromagnetism  
*RT* hubbard model  
*RT* neel temperature

**ANTIFOULANTS**

- INIS: 1985-12-10; ETDE: 1978-12-28*  
*Materials which prevent formation and/or deposition of foulants, e.g., on heat transfer surfaces or equipment.*  
*RT* biological fouling  
*RT* corrosion  
*RT* deposits  
*RT* fouling

**ANTIFREEZE**

- INIS: 2000-04-12; ETDE: 1978-03-03*  
*RT* freeze protection  
*RT* freezing  
*RT* working fluids

**ANTIGEN-ANTIBODY REACTIONS**

- UF agglutination*  
*RT* anaphylaxis  
*RT* antibodies  
*RT* antibody formation  
*RT* antigens  
*RT* complement  
*RT* cpb  
*RT* enzyme immunoassay  
*RT* graft-host reaction  
*RT* immune reactions  
*RT* immunity  
*RT* lectins  
*RT* radioimmunoassay

**ANTIGENS**

- NT1** carcinoembryonic antigen  
**NT1** histocompatibility complex  
**NT1** toxins  
**NT2** endotoxins  
**NT2** mycotoxins  
**NT3** aflatoxins  
**NT1** tuberculin

- RT* antibodies  
*RT* antigen-antibody reactions  
*RT* enzyme immunoassay  
*RT* freunds adjuvant  
*RT* immunity  
*RT* lectins  
*RT* membrane proteins  
*RT* radioimmunoassay  
*RT* vaccines

**ANTIGUA AND BARBUDA**

- 1997-03-07*  
**\*BT1** lesser antilles

**antihistamines**

- INIS: 2000-04-12; ETDE: 1981-04-20*  
*USE* antihistaminics

**ANTI HISTAMINICS**

- UF antihistamines*  
*UF promethazine*  
**BT1** drugs  
*RT* allergy  
*RT* histamine

**ANTIHYPERONS**

- \*BT1** antibaryons  
**\*BT1** hyperons  
**NT1** antilambda particles  
**NT1** antiomega particles  
**NT1** antisigma particles  
**NT1** antixi particles

**ANTI HYPERTENSIVE AGENTS**

- INIS: 1996-10-23; ETDE: 1981-04-20*  
**\*BT1** cardiovascular agents  
**NT1** reserpine  
*RT* blood pressure  
*RT* diuretics  
*RT* hypertension

**ANTIKAONS**

- \*BT1** antiparticles  
**\*BT1** kaons  
**NT1** antikaons neutral

**ANTIKAONS NEUTRAL**

- \*BT1** antikaons  
**\*BT1** kaons neutral

**ANTIKNOCK RATINGS**

- INIS: 2000-04-12; ETDE: 1993-08-10*  
 (Prior to December 1991 this was a valid ETDE descriptor. From December 1991 to August 1993 KNOCK CONTROL was used for this concept.)  
*UF cetane number*  
*UF cetene number*  
*UF octane number*  
*RT* autoignition  
*RT* ignition quality  
*RT* knock control

**ANTILAMBDA PARTICLES**

- \*BT1** antihyperons  
**\*BT1** lambda particles

**ANTILEPTON-NEUTRON****INTERACTIONS**

- INIS: 1977-01-25; ETDE: 1977-04-13*  
**\*BT1** lepton-neutron interactions  
**NT1** antineutrino-neutron interactions

**ANTILEPTON-PROTON****INTERACTIONS**

- ETDE: 1975-09-11*  
**\*BT1** lepton-proton interactions  
**NT1** antineutrino-proton interactions

**ANTILEPTONS**

- \*BT1** antiparticles  
**\*BT1** leptons  
**NT1** antineutrinos

- NT2 electron antineutrinos
- NT2 muon antineutrinos
- NT1 muons plus
- NT1 positrons
- NT2 cosmic positrons

**ANTIMATTER**

- BT1 matter
- NT1 antinuclei
- NT2 antideuterons
- NT2 antiprotons
- NT2 antitritons
- NT1 antiparticles
- NT2 antibaryons
- NT3 antihyperons
- NT4 antilambda particles
- NT4 antiomega particles
- NT4 antisigma particles
- NT4 antixi particles
- NT3 antinucleons
- NT4 antineutrons
- NT4 antiprotons
- NT2 antikaons
- NT3 antikaons neutral
- NT2 antileptons
- NT3 antineutrinos
- NT4 electron antineutrinos
- NT4 muon antineutrinos
- NT3 muons plus
- NT3 positrons
- NT4 cosmic positrons
- NT2 antimesons
- NT3 pseudoscalar antimesons
- NT4 anti-b neutral mesons
- NT4 anti-d neutral mesons
- NT2 antiquarks
- NT3 b antiquarks
- NT3 c antiquarks
- NT3 d antiquarks
- NT3 s antiquarks
- NT3 t antiquarks
- NT3 u antiquarks
- RT ambiplasma

**ANTIMESONS**

1999-03-05

*Use more specific meson type as appropriate.*

- \*BT1 antiparticles
- \*BT1 mesons
- NT1 pseudoscalar antimesons
- NT2 anti-b neutral mesons
- NT2 anti-d neutral mesons

**ANTIMETABOLITES**

- UF azaguanine
- BT1 drugs
- NT1 adenines
- NT2 kinetin
- NT1 aminopterin
- NT1 bromouracils
- NT2 budr
- NT1 deoxyuridine
- NT1 ethionine
- NT1 fluorodeoxyglucose
- NT1 fluorouracils
- NT2 fudr
- NT1 iodouracils
- NT2 iododeoxyuridine
- NT1 mercaptopurine
- NT1 methotrexate
- NT1 thiouracil
- RT alkylating agents
- RT antimetabolic drugs
- RT chemosterilants
- RT metabolites
- RT synchronization
- RT synchronous cultures

**ANTIMICROBIAL AGENTS**

INIS: 1996-10-23; ETDE: 1981-04-20  
(Prior to February 1992, this concept was indexed to ANTIBIOTICS.)

- UF methenamine
- \*BT1 anti-infective agents
- NT1 fudr
- NT1 isoniazid
- NT1 methylene blue
- NT1 quinine
- NT1 sulfonamides

**ANTIMITOTIC DRUGS**

- UF cytostatics
- UF cytotoxins
- BT1 drugs
- NT1 actinomycin
- NT1 bleomycin
- NT1 colchicine
- NT1 mitomycin
- NT1 nem
- NT1 oncovin
- NT1 vinblastine
- RT alkylating agents
- RT aminopterin
- RT anti-infective agents
- RT antibiotics
- RT antimetabolites
- RT antineoplastic drugs
- RT chemotherapy
- RT immunosuppression
- RT mitosis
- RT mutagens
- RT neocarcinostatin
- RT neoplasms
- RT radiomimetic drugs
- RT radiosensitizers

**ANTIMONATES**

INIS: 1979-09-18; ETDE: 1979-10-23  
*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1 antimony compounds
- BT1 oxygen compounds
- RT antimony oxides

**ANTIMONIDES**

INIS: 1978-08-30; ETDE: 1988-09-21  
*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1 antimony compounds
- BT1 pnictides
- NT1 gallium antimonides
- NT1 indium antimonides
- RT antimony additions
- RT antimony alloys
- RT intermetallic compounds

**ANTIMONY**

- \*BT1 metals

**ANTIMONY 103**

2007-09-26

- \*BT1 antimony isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ANTIMONY 104**

INIS: 1996-06-17; ETDE: 1996-05-31

- \*BT1 antimony isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 105**

INIS: 1996-06-17; ETDE: 1996-05-31

- \*BT1 antimony isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ANTIMONY 106**

INIS: 1981-07-13; ETDE: 1980-10-28

- \*BT1 antimony isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ANTIMONY 107**

2004-12-15

- \*BT1 antimony isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ANTIMONY 108**

INIS: 1977-06-14; ETDE: 1977-10-19

- \*BT1 antimony isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ANTIMONY 109**

- \*BT1 antimony isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ANTIMONY 110**

- \*BT1 antimony isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ANTIMONY 111**

- \*BT1 antimony isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ANTIMONY 112**

- \*BT1 antimony isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ANTIMONY 113**

- \*BT1 antimony isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**ANTIMONY 114**

- \*BT1 antimony isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 115**

- \*BT1 antimony isotopes

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ANTIMONY 116**

- \*BT1 antimony isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 117**

- \*BT1 antimony isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**ANTIMONY 118**

- \*BT1 antimony isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 118 TARGET**

*INIS: 1992-09-22; ETDE: 1982-03-29*  
BT1 targets

**ANTIMONY 119**

- \*BT1 antimony isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 odd-even nuclei

**ANTIMONY 120**

- \*BT1 antimony isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 120 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**ANTIMONY 121**

- \*BT1 antimony isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**ANTIMONY 121 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**ANTIMONY 122**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 123**

- \*BT1 antimony isotopes

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**ANTIMONY 123 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**ANTIMONY 124**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 125**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**ANTIMONY 126**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ANTIMONY 127**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ANTIMONY 127 TARGET**

*INIS: 1979-01-18; ETDE: 1978-10-23*  
BT1 targets

**ANTIMONY 128**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 129**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ANTIMONY 130**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 131**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ANTIMONY 132**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

- \*BT1 odd-odd nuclei

**ANTIMONY 133**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ANTIMONY 134**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ANTIMONY 135**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ANTIMONY 136**

*INIS: 1976-07-30; ETDE: 1975-10-28*  
\*BT1 antimony isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**ANTIMONY 137**

*2007-09-26*  
\*BT1 antimony isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei

**ANTIMONY 138**

*2007-09-26*  
\*BT1 antimony isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei

**ANTIMONY 139**

*2007-09-26*  
\*BT1 antimony isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei

**ANTIMONY ADDITIONS**

*Alloys containing not more than 1% Sb are listed here.*  
\*BT1 antimony alloys  
RT antimonides

**ANTIMONY ALLOYS**

*Alloys containing more than 1% Sb.*  
BT1 alloys  
NT1 antimony additions  
NT1 antimony base alloys  
NT1 terre-metal  
RT antimonides

**ANTIMONY BASE ALLOYS**

- \*BT1 antimony alloys

**ANTIMONY BROMIDES**

- BT1 antimony compounds
- \*BT1 bromides

**ANTIMONY CHLORIDES**

- BT1 antimony compounds
- \*BT1 chlorides

**ANTIMONY COMPLEXES**

- BT1 complexes

**ANTIMONY COMPOUNDS**

*1997-06-17*  
NT1 antimonates



NT1 antimonides  
 NT2 gallium antimonides  
 NT2 indium antimonides  
 NT1 antimony bromides  
 NT1 antimony chlorides  
 NT1 antimony fluorides  
 NT1 antimony hydrides  
 NT1 antimony hydroxides  
 NT1 antimony iodides  
 NT1 antimony oxides  
 NT1 antimony selenides  
 NT1 antimony sulfates  
 NT1 antimony sulfides  
 NT1 antimony tellurides

**ANTIMONY FLUORIDES**

BT1 antimony compounds  
 \*BT1 fluorides

**ANTIMONY HYDRIDES**

BT1 antimony compounds  
 \*BT1 hydrides

**ANTIMONY HYDROXIDES**

BT1 antimony compounds  
 \*BT1 hydroxides

**ANTIMONY IODIDES**

BT1 antimony compounds  
 \*BT1 iodides

**ANTIMONY IONS**

\*BT1 ions

**ANTIMONY ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 antimony 103  
 NT1 antimony 104  
 NT1 antimony 105  
 NT1 antimony 106  
 NT1 antimony 107  
 NT1 antimony 108  
 NT1 antimony 109  
 NT1 antimony 110  
 NT1 antimony 111  
 NT1 antimony 112  
 NT1 antimony 113  
 NT1 antimony 114  
 NT1 antimony 115  
 NT1 antimony 116  
 NT1 antimony 117  
 NT1 antimony 118  
 NT1 antimony 119  
 NT1 antimony 120  
 NT1 antimony 121  
 NT1 antimony 122  
 NT1 antimony 123  
 NT1 antimony 124  
 NT1 antimony 125  
 NT1 antimony 126  
 NT1 antimony 127  
 NT1 antimony 128  
 NT1 antimony 129  
 NT1 antimony 130  
 NT1 antimony 131  
 NT1 antimony 132  
 NT1 antimony 133  
 NT1 antimony 134  
 NT1 antimony 135  
 NT1 antimony 136  
 NT1 antimony 137  
 NT1 antimony 138  
 NT1 antimony 139

**ANTIMONY OXIDES**

BT1 antimony compounds  
 \*BT1 oxides  
 RT antimonates

**ANTIMONY SELENIDES**

INIS: 1979-11-02; ETDE: 1976-01-07

BT1 antimony compounds  
 \*BT1 selenides

**ANTIMONY SULFATES**

2000-04-12

BT1 antimony compounds  
 \*BT1 sulfates

**ANTIMONY SULFIDES**

BT1 antimony compounds  
 \*BT1 sulfides

**ANTIMONY TELLURIDES**

1979-02-21

BT1 antimony compounds  
 \*BT1 tellurides

**antimuons**

USE muons plus

**antimycin**

INIS: 1996-10-22; ETDE: 1981-06-13

(Until October 1996 this was a valid descriptor.)

USE antibiotics

**ANTINEOPLASTIC DRUGS**

BT1 drugs  
 NT1 actinomycin  
 NT1 aminopterin  
 NT1 bleomycin  
 NT1 chlorambucil  
 NT1 doxorubicin  
 NT1 metronidazole  
 NT1 misonidazole  
 NT1 mitomycin  
 NT1 neocarcinostatin  
 NT1 puromycin  
 NT1 streptozocin  
 RT alkylating agents  
 RT antibiotics  
 RT antimetabolic drugs  
 RT chemotherapy  
 RT combined therapy  
 RT neoplasms

**ANTINEUTRINO BEAMS**

\*BT1 antiparticle beams  
 \*BT1 neutrino beams  
 RT antineutrinos

**ANTINEUTRINO-ELECTRON INTERACTIONS**

\*BT1 neutrino-electron interactions

**ANTINEUTRINO-NEUTRON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1977-04-13

\*BT1 antilepton-neutron interactions  
 \*BT1 antineutrino-nucleon interactions  
 \*BT1 neutrino-neutron interactions

**ANTINEUTRINO-NUCLEON INTERACTIONS**

\*BT1 neutrino-nucleon interactions  
 NT1 antineutrino-neutron interactions  
 NT1 antineutrino-proton interactions

**ANTINEUTRINO-PROTON INTERACTIONS**

INIS: 1975-12-17; ETDE: 1976-01-26

\*BT1 antilepton-proton interactions  
 \*BT1 antineutrino-nucleon interactions  
 \*BT1 neutrino-proton interactions

**ANTINEUTRINO REACTIONS**

INIS: 1989-11-24; ETDE: 1989-12-08

BT1 nuclear reactions

**ANTINEUTRINOS**

\*BT1 antileptons  
 \*BT1 neutrinos  
 NT1 electron antineutrinos  
 NT1 muon antineutrinos  
 RT antineutrino beams

**antineutron-deuteron interactions**

2000-04-12

(Prior to February 1995 this was a valid ETDE descriptor. From February 1995 till May 1996 ANTINEUTRON REACTIONS and DEUTERIUM TARGET were used for this concept in ETDE.)

USE neutron-antineutron interactions  
 USE proton-antineutron interactions

**ANTINEUTRON REACTIONS**

\*BT1 antinucleon reactions

**ANTINEUTRONS**

\*BT1 antinucleons  
 \*BT1 neutrons  
 RT neutron oscillation

**antinuclear groups**

INIS: 1982-12-03; ETDE: 2002-06-07

USE interest groups

**ANTINUCLEI**

\*BT1 antimatter  
 BT1 nuclei  
 NT1 antideuterons  
 NT1 antiprotons  
 NT1 antitritons

**ANTINUCLEON BEAMS**

\*BT1 antiparticle beams  
 NT1 antiproton beams  
 RT antinucleons

**ANTINUCLEON REACTIONS**

\*BT1 nucleon reactions  
 NT1 antineutron reactions  
 NT1 antiproton reactions

**ANTINUCLEONS**

\*BT1 antibaryons  
 \*BT1 nucleons  
 NT1 antineutrons  
 NT1 antiprotons  
 RT antinucleon beams

**ANTIOMEGA PARTICLES**

\*BT1 antihyperons  
 \*BT1 omega particles

**ANTIOXIDANTS**

RT oxidation  
 RT oxidizers

**ANTIPARTICLE BEAMS**

BT1 beams  
 NT1 antineutrino beams  
 NT1 antinucleon beams  
 NT2 antiproton beams  
 RT pomeranchuk theorem

**ANTIPARTICLES**

\*BT1 antimatter  
 BT1 elementary particles  
 NT1 antibaryons  
 NT2 antihyperons  
 NT3 antilambda particles  
 NT3 antiomega particles  
 NT3 antisigma particles  
 NT3 antixi particles  
 NT2 antinucleons  
 NT3 antineutrons  
 NT3 antiprotons  
 NT1 antikaons  
 NT2 antikaons neutral

**NT1** antileptons  
**NT2** antineutrinos  
**NT3** electron antineutrinos  
**NT3** muon antineutrinos  
**NT2** muons plus  
**NT2** positrons  
**NT3** cosmic positrons  
**NT1** antimesons  
**NT2** pseudoscalar antimesons  
**NT3** anti-b neutral mesons  
**NT3** anti-d neutral mesons  
**NT1** antiquarks  
**NT2** b antiquarks  
**NT2** c antiquarks  
**NT2** d antiquarks  
**NT2** s antiquarks  
**NT2** t antiquarks  
**NT2** u antiquarks

**ANTIPROTON BEAMS**

\*BT1 antinucleon beams

**antiproton-deuteron interactions**

(Prior to May 1996 this was a valid ETDE descriptor.)

USE antiproton-neutron interactions  
 USE proton-antiproton interactions

**ANTIPROTON-NEUTRON INTERACTIONS**

(From January 1975 till May 1996 ANTIPROTON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF *antiproton-deuteron interactions*  
 \*BT1 nucleon-antinucleon interactions

**antiproton-proton interactions**

ETDE: 2002-06-07

USE proton-antiproton interactions

**ANTIPROTON REACTIONS**

\*BT1 antinucleon reactions

**ANTIPROTON SOURCES**

INIS: 1985-12-10; ETDE: 1986-01-16

\*BT1 particle sources  
 RT antiprotons

**antiprotonic atoms**

USE hadronic atoms

**ANTIPROTONS**

\*BT1 antinuclei  
 \*BT1 antinucleons  
 \*BT1 protons  
 RT antiproton sources  
 RT protonium

**ANTIPYRETICS**

1996-07-18

UF *acetophenetidin*  
 UF *aminopyrine*  
 UF *anti-inflammatory agents*  
 UF *phenacetin*  
 \*BT1 central nervous system depressants  
**NT1** acetylsalicylic acid  
**NT1** antipyrene  
**NT1** colchicine  
**NT1** quinine  
 RT analgesics  
 RT fever  
 RT inflammation

**ANTIPYRINE**

\*BT1 analgesics  
 \*BT1 antipyretics  
 \*BT1 pyrazolines

**ANTIQUARKS**

2007-06-26

\*BT1 antiparticles

\*BT1 quarks  
**NT1** b antiquarks  
**NT1** c antiquarks  
**NT1** d antiquarks  
**NT1** s antiquarks  
**NT1** t antiquarks  
**NT1** u antiquarks

**ANTIREFLECTION COATINGS**

1976-10-07

BT1 coatings  
 RT optical equipment  
 RT optical systems  
 RT reflective coatings  
 RT solar absorbers

**ANTISEPTICS**

INIS: 2000-04-12; ETDE: 1976-01-23

*Disinfectants mild enough for use on living tissue.*

BT1 germicides  
 RT disinfectants  
 RT drugs

**antiserum**

USE immune serums

**ANTISIGMA PARTICLES**

\*BT1 antihyperons  
 \*BT1 sigma particles

**ANTITHYROID DRUGS**

UF *thyroid antagonists*  
 BT1 drugs  
**NT1** thiocyanates  
**NT2** ammonium thiocyanates  
**NT1** thiouracil  
**NT1** thiourea  
 RT hyperthyroidism  
 RT hypothyroidism  
 RT thyroid

**ANTITOXINS**

BT1 antibodies  
 RT toxins

**ANTITRITONS**

\*BT1 antinuclei  
 \*BT1 tritons

**ANTITRUST LAWS**

1992-08-17

(From February to August 1992 this concept in ETDE was indexed to US ANTITRUST LAWS.)

UF *us antitrust laws*  
 BT1 laws  
 RT business  
 RT competition  
 RT conflicts of interest  
 RT marketing  
 RT monopolies

**ANTITRUST REVIEW**

1999-07-20

*A review to establish whether a situation would be created or maintained which would be inconsistent with antitrust laws.*

BT1 legal aspects  
 RT reactor licensing

**ANTIXI PARTICLES**

\*BT1 antihyperons  
 \*BT1 xi particles

**ANTLERS**

\*BT1 bone tissues  
 RT deer

**antrim shales**

INIS: 1992-07-22; ETDE: 1980-10-27

USE black shales

**ANTS**

INIS: 1993-07-12; ETDE: 1981-06-16

\*BT1 hymenoptera

**ANU SUPERCONDUCTING LINAC**

INIS: 1996-08-06; ETDE: 1998-07-07

*Linear Accelerator at the Australian National University, Department of Nuclear Physics.*

\*BT1 linear accelerators

**ANVIL POINTS RESEARCH FACILITY**

2000-04-12

\*BT1 oil shale processing plants  
 RT oil shales

**ANVIL PROJECT**

INIS: 1999-03-05; ETDE: 1977-06-21

UF *banon event*  
 UF *billet event*  
 UF *cheshire event*  
 UF *chiberta event*  
 UF *colby event*  
 UF *esrom event*  
 UF *estuary event*  
 UF *fontina event*  
 UF *husky pup event*  
 UF *inlet event*  
 UF *kasseri event*  
 UF *keelson event*  
 UF *leyden event*  
 UF *marsh event*  
 UF *muenster event*  
 UF *pool event*  
 UF *project anvil*  
 UF *strait event*  
 \*BT1 nuclear explosions  
 RT contained explosions  
 RT underground explosions

**ANYONS**

1992-03-18

BT1 quasi particles  
 RT quantum field theory  
 RT statistical mechanics  
 RT superconductivity

**AO-PHAI-1 REACTOR**

INIS: 1985-03-15; ETDE: 1985-04-09

UF *sriracha reactor*  
 \*BT1 power reactors

**AORTA**

\*BT1 arteries  
 RT heart  
 RT mediastinum

**apa**

INIS: 2000-04-12; ETDE: 1980-03-29

USE alaska power administration

**apache**

1996-07-16

*Accelerator for Physics And Chemistry of Heavy Elements.*

(Until July 1996 this was a valid descriptor.)

USE isochronous cyclotrons

**APARTMENT BUILDINGS**

1985-07-22

\*BT1 residential buildings  
 RT commercial buildings  
 RT households

**APATITES**

UF *calcium hydroxyapatite*  
 \*BT1 phosphate minerals  
 RT kimberlites

**APERTURES**

BT1 openings  
 RT orifices

**APES**

- \*BT1 primates
- RT monkeys

**APFA-3 REACTOR**

*Accelerator Pulsed Fast Critical Assembly. General Atomic Co., San Diego, California, USA. Shut down in 1973.*

- UF *accelerator pulsed fast assembly*
- \*BT1 zero power reactors

**APHIDS**

- \*BT1 hemiptera

**API GRAVITY**

*INIS: 1993-09-01; ETDE: 1976-03-11*

*Scale adopted by American Petroleum*

*Institute to express the specific gravity of oils.*

- \*BT1 density

**apis mellifera**

*INIS: 2000-04-12; ETDE: 1981-04-17*

- USE bees

**aplastic anemia**

- USE anemias

**APLITES**

UF *alaskites*

- \*BT1 granites
- RT feldspars
- RT quartz

**APOLIPOPROTEINS**

*INIS: 1992-09-18; ETDE: 1978-08-07*

- \*BT1 lipoproteins
- RT coenzymes

**APOLLO PROJECT**

UF *project apollo*

- RT lunar materials
- RT moon
- RT space flight

**APOPTOSIS**

*INIS: 1999-04-19; ETDE: 1999-05-03*

- RT cell differentiation
- RT cell killing
- RT ontogenesis

**appalachia**

*2000-04-12*

*The mountainous region, including valleys and plateaus extending through the eastern USA from New England to Georgia and Alabama.*

*(Prior to August 1992 this was a valid descriptor.)*

- USE appalachian mountains

**APPALACHIAN BASIN**

*INIS: 1992-08-18; ETDE: 1989-09-08*

- \*BT1 sedimentary basins
- NT1 chattanooga formation

**APPALACHIAN MOUNTAINS**

UF *appalachia*

- BT1 mountains
- NT1 adirondack mountains
- RT canada
- RT usa

**appalachian orogeny**

*INIS: 2000-04-12; ETDE: 1977-10-20*

- SEE permian period

**apparatus**

*1982-12-06*

- USE equipment

**APPARENT MOLAL VOLUME**

*INIS: 2000-04-12; ETDE: 1975-09-11*

*Apparent molal volume is equal to the total volume of the solution minus the volume of the solvent divided by the number of moles of the solute.*

- RT thermodynamic properties

**APPEALS**

*INIS: 1995-04-10; ETDE: 1979-12-10*

- BT1 administrative procedures

**appendix (vermiform)**

- USE large intestine
- USE lymphatic system

**APPENNINES**

*INIS: 1976-10-07; ETDE: 1976-11-01*

- \*BT1 italy
- BT1 mountains

**APPLE COMPUTERS**

*INIS: 1992-08-18; ETDE: 1981-12-21*

- BT1 computers

**APPLES**

- \*BT1 fruits
- RT codling moth
- RT fruit trees
- RT rosaceae

**APPLIANCES**

*1993-01-22*

- BT1 equipment
- NT1 clothes dryers
- NT1 clothes washers
- NT1 coal burning appliances
- NT1 dishwashers
- NT1 electric appliances
- NT2 microwave ovens
- NT1 freezers
- NT1 gas appliances
- NT1 ovens
- NT2 microwave ovens
- NT1 space heaters
- NT2 convectors
- NT1 stoves
- NT1 water coolers
- NT1 water heaters
- NT2 solar water heaters
- NT3 passive solar water heaters
- NT4 thermic diode solar panels
- NT1 wood burning appliances
- NT2 wood burning furnaces
- RT air conditioners

**applications**

- USE uses

**applicators (radiotherapy)**

- USE radiation sources

**appraisal**

*INIS: 2000-04-12; ETDE: 1980-05-06*

*(Prior to August 1992 this was a valid ETDE descriptor.)*

- USE cost estimation

**APPROPRIATE TECHNOLOGY**

*INIS: 1999-06-23; ETDE: 1993-08-31*

*A technology anywhere between the simplest and the most sophisticated that is appropriate for accomplishing a particular task.*

- UF *intermediate technology*
- SF *nanotechnology*
- RT renewable energy sources
- RT technology assessment
- RT technology impacts
- RT technology utilization

**approximation (bohr)**

*INIS: 1976-03-17; ETDE: 1976-05-17*

- USE nilsson-mottelson model

**approximation (distorted-wave)**

*ETDE: 2002-06-07*

- USE dwba

**approximation (fixed scattering centres)**

*ETDE: 2002-06-07*

- USE fsc approximation

**APPROXIMATIONS**

*INIS: 2006-02-06; ETDE: 2006-01-31*

*Use of a more specific term from this word block is recommended.*

- BT1 calculation methods
- NT1 adiabatic approximation
- NT1 born approximation
- NT2 coupled channel born approximation
- NT2 dwba
- NT1 born-oppenheimer approximation
- NT1 brinkman-kramers approximation
- NT1 broken-pair approximation
- NT1 diabatic approximation
- NT1 dirac approximation
- NT1 eikonal approximation
- NT1 equivalent-photon approximation
- NT1 fsc approximation
- NT1 guiding-center approximation
- NT1 hartree-fock method
- NT1 impulse approximation
- NT1 ladder approximation
- NT1 pade approximation
- NT1 random phase approximation
- NT1 rosseland approximation
- NT1 semiclassical approximation
- NT1 spherical harmonics method
- NT2 p1-approximation
- NT2 p2-approximation
- NT2 p3-approximation
- NT1 straight-line path approximation
- NT1 sudden approximation
- NT1 tomonaga approximation
- NT1 unitary pole approximation
- NT1 wkb approximation
- NT1 zero-range approximation

**apra reactor**

- USE aprf reactor

**APRF REACTOR**

*Aberdeen Proving Ground, Aberdeen, Maryland, USA.*

UF *aberdien maryland reactor*

UF *apra reactor*

UF *army pulsed reactor assembly*

- \*BT1 fast reactors
- \*BT1 pulsed reactors
- \*BT1 research reactors

**APRICOTS**

*1993-07-12*

- \*BT1 fruits
- RT fruit trees
- RT rosaceae

**APS REACTOR**

*Obninsk, Kaluga, Russian Federation.*

UF *am-1 reactor*

- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**aps storage ring**

*INIS: 1992-08-17; ETDE: 1992-06-11*

- USE advanced photon source

**APSARA REACTOR**

*Bhabha Atomic Research Center, Trombay, Maharashtra, India.*

- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**AQUA REGIA**

- RT hydrochloric acid
- RT nitric acid

**aquaclus process**

*INIS: 2000-04-12; ETDE: 1977-12-22*

*Sulfur dioxide is removed from Claus plant tail gas or other gaseous waste using phosphate base adsorbent solution.*

*(Prior to March 1994, this was a valid ETDE descriptor.)*

- USE desulfurization

**AQUACULTURE**

*INIS: 1991-09-18; ETDE: 1975-11-11*

*Cultivation of natural faunal and/or floral resources of water.*

- UF aquaculture
- UF mariculture
- RT fisheries
- RT fishes
- RT hydroponic culture
- RT waste heat utilization

**AQUATIC ECOSYSTEMS**

- UF brackish water ecosystems
- UF estuarine ecosystems
- UF fresh water ecosystems
- UF marine ecosystems
- BT1 ecosystems
- NT1 wetlands
  - NT2 marshes
  - NT2 swamps
- RT amphibians
- RT aquatic organisms
- RT benthos
- RT biochemical oxygen demand
- RT cattails
- RT chemical oxygen demand
- RT eutrophication
- RT hydrosphere
- RT limnology
- RT otters
- RT rotifera

**AQUATIC ORGANISMS**

*1997-06-17*

*Unspecified biota characteristic of aquatic ecosystems.*

- UF azolla
- UF manatees
- NT1 amphibians
  - NT2 frogs
  - NT2 salamanders
  - NT3 triturus
  - NT2 toads
- NT1 aufwuchs
- NT1 benthos
  - NT2 echinoderms
  - NT3 sea urchins
- NT1 bryozoa
- NT1 cetaceans
- NT1 crustaceans
  - NT2 branchiopods
    - NT3 artemia
    - NT3 daphnia
  - NT2 copepods
  - NT2 decapods
    - NT3 crabs
    - NT3 lobsters

- NT3 prawns
- NT3 shrimp
- NT1 fishes
  - NT2 anadromous fishes
  - NT3 salmon
  - NT3 striped bass
- NT2 codfish
- NT2 eel
- NT2 fathead minnow
- NT2 goldfish
- NT2 plaice
- NT2 trout
- NT2 tuna
- NT1 molluscs
  - NT2 clams
  - NT2 mussels
  - NT2 oysters
  - NT2 snails
- NT1 pinnipeds
- NT1 plankton
  - NT2 ichthyoplankton
  - NT2 phytoplankton
  - NT2 zooplankton
- NT1 rotifera
- NT1 seaweeds
  - NT2 fucus
  - NT2 laminaria
- NT1 water hyacinths
- RT algae
- RT animals
- RT aquatic ecosystems
- RT ephemeroptera
- RT otters
- RT plants

**aqueous carbonate process**

*INIS: 2000-04-12; ETDE: 1977-06-24*

- USE desulfurization

**AQUEOUS HOMOGENEOUS REACTORS**

- \*BT1 liquid homogeneous reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors
- NT1 ai-1-77 reactor
- NT1 argus reactor
- NT1 ber-2 reactor
- NT1 byu 1-77 reactor
- NT1 cesnef reactor
- NT1 dr-1 reactor
- NT1 frf reactor
- NT1 gidra reactor
- NT1 hre-2 reactor
- NT1 jrr-1 reactor
- NT1 kewb reactor
- NT1 kstr reactor
- NT1 ncsr-1 reactor
- NT1 nevada university reactor
- NT1 prnc-1-77 reactor
- NT1 supo reactor
- NT1 wrrr reactor

**aqueous humor**

- USE body fluids
- USE eyes

**AQUEOUS SOLUTIONS**

- UF water solutions
- \*BT1 solutions
- RT water

**AQUICLUDES**

*1992-06-05*

*Bodies of relatively impermeable rock that are capable of absorbing water slowly but function as upper or lower boundaries of aquifers and do not transmit ground water rapidly enough to supply a well or spring.*

- RT ground water
- RT rocks

- RT water reservoirs

**aquiculture**

*INIS: 1991-09-18; ETDE: 1975-11-11*

- USE aquaculture

**AQUIFERS**

*A stratum of permeable rock, sand, or gravel that will yield a significant quantity of water.*

- UF ground-water reserves
- RT artesian basins
- RT ground water
- RT hydrology
- RT reservoir pressure
- RT rocks
- RT sand
- RT underground
- RT water influx
- RT water tables

**AQUILON REACTOR**

- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 natural uranium reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**ARAB ATOMIC ENERGY AGENCY**

*INIS: 1992-03-24; ETDE: 1992-04-09*

- BT1 international organizations

**ARAB COUNTRIES**

*INIS: 1997-01-06; ETDE: 1992-08-05*

- NT1 algeria
- NT1 bahrain
- NT1 djibouti
- NT1 egyptian arab republic
- NT1 iraq
- NT1 jordan
- NT1 kuwait
- NT1 lebanon
- NT1 libyan arab jamahiriya
- NT1 mauritania
- NT1 morocco
- NT1 oman
- NT1 qatar
- NT1 saudi arabia
- NT1 somalia
- NT1 sudan
- NT1 syria
- NT1 tunisia
- NT1 united arab emirates
- NT1 yemen
- RT africa
- RT asia
- RT middle east

**arab republic of egypt**

- USE egyptian arab republic

**ARABIAN SEA**

- \*BT1 indian ocean
- NT1 persian gulf
- NT2 strait of hormuz

**ARABIDOPSIS**

- \*BT1 magnoliopsida

**ARABINOSE**

- \*BT1 aldehydes
- \*BT1 pentoses
- RT gum acacia

**arachidic acid**

- USE eicosanoic acid

**ARACHIDONIC ACID**

- \*BT1 monocarboxylic acids

**ARACHNIDS**

- \*BT1 arthropods
- NT1 mites

NT1 scorpions  
 NT1 spiders  
 NT1 ticks

**ARAGONITE**

*A white, yellowish, or gray orthorhombic mineral.*

\*BT1 carbonate minerals  
 RT calcium carbonates

**ARAL SEA**

INIS: 1998-12-30; ETDE: 1999-01-28

\*BT1 lakes  
 \*BT1 seas  
 RT kazakhstan  
 RT uzbekistan

**ARALDITE**

\*BT1 epoxides  
 \*BT1 organic polymers  
 RT homalite  
 RT resins

**aralex process**

INIS: 2000-04-12; ETDE: 1979-11-07

*2-ethyl-1-hexanol is used to extract the degradation products from acidified sodium carbonate scrub waste leaving actinides in the aqueous phase.*

(Prior to April 1994, this was a valid ETDE descriptor.)

USE radioactive waste processing

**ARAMIDS**

INIS: 1996-08-05; ETDE: 1978-07-06

(Until July 1996 this concept was indexed to POLYAMIDES.)

UF kevlar  
 \*BT1 plastics  
 RT fibers

**arbeitsgemeinschaft versuchsreaktor**

INIS: 1993-11-03; ETDE: 2002-06-07

USE avr reactor

**ARBI REACTOR**

*Bilbao, Vizcaya, Spain.*

UF argonaut bilbao reactor  
 UF bilbao argonaut reactor  
 \*BT1 argonaut type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**ARBITRATION**

INIS: 1976-12-08; ETDE: 1977-06-24

(From March 1981 till March 1997 MEDIATION was a valid ETDE descriptor.)

SF mediation  
 RT dispute settlements  
 RT hearings  
 RT lawsuits

**ARBOR PROJECT**

2000-04-12

\*BT1 nuclear explosions  
 \*BT1 underground explosions  
 RT nevada test site

**ARBUS REACTOR**

UF ast-1 reactor  
 UF mekess-arbus reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 omr type reactors  
 \*BT1 power reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**ARC COAL PROCESS**

2000-04-12

*Avco Corp. process for production of acetylene and recovery of carbon black, hcn, char, low-btu fuel gas, and sulfur.*

\*BT1 coal gasification

**ARC FURNACES**

\*BT1 electric furnaces  
 RT plasma furnaces  
 RT vacuum furnaces

**ARC WELDING**

UF flux cored arc welding  
 \*BT1 welding  
 NT1 gas metal-arc welding  
 NT2 gas tungsten-arc welding  
 NT1 plasma arc welding  
 NT1 shielded metal-arc welding  
 NT1 submerged arc welding  
 RT electroslag welding  
 RT sputtering

**ARCHAEOLOGICAL SITES**

INIS: 1985-12-10; ETDE: 1978-07-06

RT archaeological specimens  
 RT archaeology  
 RT cultural objects  
 RT site selection

**ARCHAEOLOGICAL SPECIMENS**

RT archaeological sites  
 RT archaeology  
 RT cultural objects  
 RT cultural resources  
 RT fossils

**ARCHAEOLOGY**

RT age estimation  
 RT archaeological sites  
 RT archaeological specimens  
 RT historical aspects

**ARCHITECTS**

INIS: 1992-08-06; ETDE: 1980-01-15

SF professional personnel  
 BT1 personnel  
 RT architecture  
 RT builders  
 RT buildings  
 RT construction industry  
 RT solar architecture

**ARCHITECTURE**

1992-03-10

NT1 solar architecture  
 NT1 vernacular architecture  
 RT aesthetics  
 RT architects  
 RT buildings  
 RT cultural resources  
 RT thermal comfort

**arco process**

2000-03-24

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE reprocessing  
 SEE solvent extraction

**ARCTIC GAS PIPELINES**

INIS: 2000-04-12; ETDE: 1976-07-07

BT1 pipelines  
 RT natural gas  
 RT transport

**arctic haze**

INIS: 2000-04-12; ETDE: 1987-04-08

*Abundance of tropospheric carbonaceous aerosols north of 60 deg n, present during winter and spring, but almost absent during summer. Use AEROSOLS, AIR POLLUTION,*

*or other pertinent term and the descriptor below.*

(Prior to February 1997 this was a valid ETDE descriptor.)

USE arctic regions

**ARCTIC OCEAN**

1977-09-06

\*BT1 seas  
 NT1 beaufort sea  
 NT2 prudhoe bay  
 NT1 chukchi sea  
 RT arctic regions  
 RT greenland

**ARCTIC REGIONS**

1995-11-22

(From April 1987 till February 1997 ARCTIC HAZE was a valid ETDE descriptor.)

UF arctic haze  
 \*BT1 polar regions  
 RT antarctic regions  
 RT arctic ocean  
 RT auroral zones  
 RT chukchi sea  
 RT climates  
 RT eskimos  
 RT glaciers  
 RT greenland  
 RT ice  
 RT ice caps  
 RT lapps  
 RT natural gas hydrate deposits  
 RT novaya zemlya  
 RT permafrost  
 RT polar-cap aurorae  
 RT snow  
 RT tundra

**ARDENNES B-1 REACTOR**

INIS: 1984-07-23; ETDE: 1984-09-05

*Electricite de France, Chooz, France.*

UF chooz b-1 reactor  
 \*BT1 pwr type reactors

**ARDENNES B-2 REACTOR**

2004-05-11

*Electricite de France, Chooz, France.*

UF chooz b-2 reactor  
 \*BT1 pwr type reactors

**ARDENNES REACTOR**

*Chooz, Ardenne, France.*

UF chooz reactor  
 UF sena reactor  
 \*BT1 pwr type reactors

**are-rr-1 reactor**

2000-04-12

USE wwr-s-cairo reactor

**area pollution sources**

INIS: 1992-03-09; ETDE: 1980-01-15

USE pollution sources

**ARGAND DIAGRAMS**

1999-09-16

*The real part of a scattering amplitude plotted versus the imaginary one.*

\*BT1 scatterplots  
 RT phase shift  
 RT scattering amplitudes

**ARGENTINA**

BT1 developing countries  
 \*BT1 south america  
 NT1 mendoza  
 RT andes

**argentina-brasil agencia contabil  
controle mater nuclear**

INIS: 1999-06-22; ETDE: 2002-06-07  
USE abacc

**ARGENTINE ARN**

2000-07-11

Argentine Autoridad Regulatoria Nuclear.  
\*BT1 argentine organizations

**ARGENTINE CNEA**

INIS: 1993-10-01; ETDE: 1993-11-08  
Comision Nacional de Energia Atomica de la  
Republica Argentina.  
UF cnea (argentina)  
\*BT1 argentine organizations

**ARGENTINE INVAP**

2003-03-18

Argentine Investigacion Aplicada SE  
(INVAP), San Carlos de Bariloche, Argentina.  
UF argentine invap sociedad del estado  
UF invap (argentina)  
\*BT1 argentine organizations

**argentine invap sociedad del estado**

2003-03-18

USE argentine invap

**ARGENTINE ORGANIZATIONS**

INIS: 1986-07-09; ETDE: 1986-12-18  
BT1 national organizations  
NT1 argentine arn  
NT1 argentine cnea  
NT1 argentine invap

**argentine reactor ra-0**

USE ra-0 reactor

**argentine reactor ra-1**

USE ra-1 reactor

**argentine reactor ra-2**

USE ra-2 reactor

**argentine reactor ra-3**

USE ra-3 reactor

**argentine reactor ra-4**

INIS: 2002-08-13; ETDE: 2002-06-16  
USE ra-4 reactor

**argentine reactor ra-5**

INIS: 1984-06-21; ETDE: 2002-06-07  
USE ra-5 reactor

**argentine reactor ra-6**

2001-03-01

USE ra-6 reactor

**argentine reactor ra-8**

2002-11-20

USE ra-8 reactor

**ARGILLITE**

INIS: 1984-04-04; ETDE: 1979-07-18  
\*BT1 shales

**ARGINASE**

1999-01-28

Code numbers 3.5.3.1 and 3.5.3.10.  
\*BT1 amidases  
RT arginine

**ARGININE**

UF guanidylaminovaleric acid  
\*BT1 amino acids  
RT arginase

**ARGON**

\*BT1 rare gases

**ARGON 30**

2007-01-17

\*BT1 argon isotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 nanoseconds living radioisotopes  
\*BT1 proton decay radioisotopes

**ARGON 31**

INIS: 1986-08-19; ETDE: 1986-09-05

\*BT1 argon isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes

**ARGON 32**

\*BT1 argon isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes

**ARGON 33**

\*BT1 argon isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes

**ARGON 34**

\*BT1 argon isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes

**ARGON 35**

\*BT1 argon isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 seconds living radioisotopes

**ARGON 36**

\*BT1 argon isotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 stable isotopes

**ARGON 36 REACTIONS**

INIS: 1980-07-24; ETDE: 1980-08-12  
\*BT1 heavy ion reactions

**ARGON 36 TARGET**

ETDE: 1976-07-09

BT1 targets

**ARGON 37**

\*BT1 argon isotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei

**ARGON 37 TARGET**

INIS: 1979-02-21; ETDE: 1979-03-28  
BT1 targets

**ARGON 38**

\*BT1 argon isotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 stable isotopes

**ARGON 38 BEAMS**

INIS: 1986-12-09; ETDE: 1987-02-24  
\*BT1 ion beams

**ARGON 38 TARGET**

ETDE: 1976-07-09

BT1 targets

**ARGON 39**

\*BT1 argon isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 years living radioisotopes

**ARGON 39 BEAMS**

INIS: 1986-12-09; ETDE: 1987-02-24  
\*BT1 radioactive ion beams

**ARGON 40**

\*BT1 argon isotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 stable isotopes  
RT argon 40 beams

**ARGON 40 BEAMS**

\*BT1 ion beams  
RT argon 40

**ARGON 40 REACTIONS**

\*BT1 heavy ion reactions

**ARGON 40 TARGET**

ETDE: 1976-07-09

BT1 targets

**ARGON 41**

\*BT1 argon isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei

**ARGON 42**

\*BT1 argon isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 years living radioisotopes

**ARGON 43**

\*BT1 argon isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes

**ARGON 44**

\*BT1 argon isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes

**ARGON 45**

\*BT1 argon isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes

**ARGON 46**

\*BT1 argon isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes

**ARGON 47**

INIS: 1986-08-19; ETDE: 1986-09-05

\*BT1 argon isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei

**ARGON 48**

2007-01-17

\*BT1 argon isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

#### ARGON 49

INIS: 1989-09-14; ETDE: 1989-10-16

\*BT1 argon isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei

#### ARGON 50

INIS: 1989-09-14; ETDE: 1989-10-16

\*BT1 argon isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei

#### ARGON 51

INIS: 1989-09-14; ETDE: 1989-10-16

\*BT1 argon isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei

#### ARGON 52

2007-01-17

\*BT1 argon isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes

#### ARGON 53

2007-01-17

\*BT1 argon isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes

#### ARGON CHLORIDES

\*BT1 argon compounds  
\*BT1 chlorides

#### ARGON COMPLEXES

BT1 complexes

#### ARGON COMPOUNDS

1996-01-24

BT1 rare gas compounds  
NT1 argon chlorides  
NT1 argon fluorides  
NT1 argon hydrides  
NT1 argon iodides  
NT1 argon nitrides  
NT1 argon oxides

#### ARGON FLUORIDES

\*BT1 argon compounds  
\*BT1 fluorides

#### ARGON HYDRIDES

\*BT1 argon compounds  
\*BT1 hydrides

#### ARGON IODIDES

\*BT1 argon compounds  
\*BT1 iodides

#### ARGON IONS

\*BT1 ions

#### ARGON ISOTOPES

1999-07-16

BT1 isotopes  
NT1 argon 30  
NT1 argon 31  
NT1 argon 32  
NT1 argon 33  
NT1 argon 34  
NT1 argon 35  
NT1 argon 36  
NT1 argon 37  
NT1 argon 38  
NT1 argon 39  
NT1 argon 40  
NT1 argon 41

NT1 argon 42

NT1 argon 43

NT1 argon 44

NT1 argon 45

NT1 argon 46

NT1 argon 47

NT1 argon 48

NT1 argon 49

NT1 argon 50

NT1 argon 51

NT1 argon 52

NT1 argon 53

#### argon method

USE isotope dating

#### ARGON NITRIDES

\*BT1 argon compounds  
\*BT1 nitrides

#### ARGON OXIDES

INIS: 1981-11-25; ETDE: 1981-06-13

\*BT1 argon compounds  
\*BT1 oxides

#### argonaut barcelona reactor

USE argos reactor

#### argonaut bilbao reactor

USE arbi reactor

#### argonaut eindhoven reactor

2000-04-12

USE athene reactor

#### argonaut lemont reactor

USE argonaut reactor

#### ARGONAUT REACTOR

ANL, Argonne, Illinois, USA. Shut down in 1979.

UF argonaut lemont reactor

UF cp-11 reactor

\*BT1 argonaut type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

#### ARGONAUT TYPE REACTORS

\*BT1 enriched uranium reactors

\*BT1 research and test reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

NT1 aeg-pr-10 reactor

NT1 arbi reactor

NT1 argonaut reactor

NT1 argos reactor

NT1 athene reactor

NT1 jason reactor

NT1 lfr reactor

NT1 moata reactor

NT1 nestor reactor

NT1 queen mary college utr-b reactor

NT1 ra-1 reactor

NT1 rb-2 reactor

NT1 rien-1 reactor

NT1 srcc-utr-100 reactor

NT1 stark reactor

NT1 strasbourg-cronenbourg reactor

NT1 ufr reactor

NT1 ulyse reactor

NT1 urr reactor

NT1 utr-10-kinki reactor

NT1 vpi-utr-10 reactor

#### argonauta rien-1 reactor

USE rien-1 reactor

#### argonauta rio reactor

USE rien-1 reactor

#### argonne advanced research reactor

2000-04-12

USE cp-6 reactor

#### argonne fast source reactor

USE afsr reactor

#### argonne heavy water modified reactor

2000-04-12

USE cp-3m reactor

#### argonne heavy water reactor

USE cp-3 reactor

#### argonne high flux reactor

2000-04-12

USE cp-6 reactor

#### argonne national laboratory

USE anl

#### argonne research reactor

USE cp-5 reactor

#### argonne superconducting linac

INIS: 1985-11-18; ETDE: 1985-04-24

USE atlas superconducting linac

#### argonne tandem/linear accelerator

INIS: 1993-11-03; ETDE: 2002-06-07

USE atlas superconducting linac

#### argonne tank research and test reactor-aarr

2000-04-12

USE aarr reactor

#### argonne thermal source reactor

2000-04-12

USE atrs reactor

#### argonne zgs

USE zgs

#### argonox process

INIS: 2000-04-12; ETDE: 1989-05-31

(Prior to September 1994, this was a valid ETDE descriptor.)

USE combined soxnox processes

#### ARGOS REACTOR

Barcelona, Spain.

UF argonaut barcelona reactor

UF barcelona argonaut reactor

\*BT1 argonaut type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

#### argus event

1994-10-13

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

#### ARGUS REACTOR

2004-09-09

Russian Research Center, Kurchatov Institute, Moscow, Russian Federation.

\*BT1 aqueous homogeneous reactors

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 thermal reactors

#### ARID LANDS

INIS: 1992-01-09; ETDE: 1977-03-04

NT1 deserts

RT buffalo gourd

RT droughts

RT jojoba

RT land use  
RT savannas  
RT terrestrial ecosystems

**ARIEL SATELLITES**

BT1 satellites

**ARIZONA**

\*BT1 usa  
RT great basin

**ARKANSAS**

\*BT1 usa  
RT chattanooga formation  
RT mississippi river  
RT white river basin

**ARKANSAS-1 REACTOR**

*Entergy Operations, Inc., Russellville, Arkansas, USA.*  
UF arkansas power-light-1 reactor  
UF russellville-1 arkansas reactor  
\*BT1 pwr type reactors

**ARKANSAS-2 REACTOR**

*Entergy Operations, Inc., Russellville, Arkansas, USA.*  
UF arkansas power-light-2 reactor  
UF russellville-2 arkansas reactor  
\*BT1 pwr type reactors

**arkansas power-light-1 reactor**

USE arkansas-1 reactor

**arkansas power-light-2 reactor**

USE arkansas-2 reactor

**ARKANSAS RIVER**

INIS: 2000-04-12; ETDE: 1977-09-19  
\*BT1 rivers

**arktika (nuclear ship)**

INIS: 1984-08-27; ETDE: 1994-08-10  
USE ns leonid brezhnev

**arktika reactor**

INIS: 1984-08-27; ETDE: 1994-09-12  
(Prior to the name change in November 1982 this was a valid descriptor, and older material is so indexed.)  
USE leonid brezhnev reactor

**ARMATURES**

INIS: 1984-04-04; ETDE: 1976-09-14  
\*BT1 electrical equipment  
RT electric generators  
RT electric motors  
RT rotors  
RT stators

**ARMENIA**

INIS: 1997-08-20; ETDE: 1993-04-08  
(Until January 1993, this was indexed by USSR.)  
SF soviet union  
SF union of soviet socialist republics  
SF ussr  
BT1 asia  
RT caucasus

**ARMENIAN-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20  
UF oktoberian-1 reactor  
\*BT1 wwer type reactors

**ARMENIAN-2 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20  
UF oktoberian-2 reactor  
\*BT1 wwer type reactors

**ARMENIAN ORGANIZATIONS**

1999-07-12  
BT1 national organizations

**ARMF-1 REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1977.

UF advanced reactivity measurement facility-1

\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**ARMOR**

INIS: 1999-02-23; ETDE: 1976-09-28  
RT guns  
RT projectiles

**ARMS**

INIS: 1976-02-11; ETDE: 1976-04-19  
\*BT1 limbs  
NT1 hands  
NT2 fingers

**ARMS CONTROL**

INIS: 1998-06-10; ETDE: 1985-08-09  
SF disarmament  
RT bangkok treaty  
RT ctbt  
RT ctbt  
RT non-proliferation policy  
RT non-proliferation treaty  
RT nuclear disarmament  
RT nuclear freeze  
RT nuclear weapons dismantlement  
RT pelindaba treaty  
RT rarotonga treaty  
RT salt talks  
RT tlattelolco treaty  
RT unidir  
RT us acda  
RT verification  
RT weapons

**army personnel**

USE military personnel

**army pulsed reactor assembly**

USE aprf reactor

**aromatic acids**

USE carboxylic acids

**aromatic compounds**

USE aromatics

**aromatic hydrocarbons**

ETDE: 2002-06-07  
USE aromatics

**AROMATICS**

1996-10-23

UF aromatic compounds  
UF aromatic hydrocarbons  
UF ndpp

SF syntans

BT1 organic compounds

NT1 acetophenone

NT1 alkylated aromatics

NT2 mesitylene

NT2 methylnaphthalenes

NT2 styrene

NT2 toluene

NT2 xylenes

NT3 xylene-para

NT1 aniline

NT1 azaarenes

NT2 acridines

NT3 acridine orange

NT3 flavines

NT4 acriflavine

NT4 proflavine

NT2 carbazoles

NT2 indoles

NT3 indigo

NT3 indocyanine green

NT3 lysergic acid

NT3 reserpine

NT3 strychnine

NT3 tryptamines

NT4 melatonin

NT4 serotonin

NT5 bufotenine

NT3 tryptophan

NT3 vinblastine

NT2 phenanthrolines

NT3 ferroin

NT3 phenanthroline-ortho

NT2 pteridines

NT3 aminopterin

NT3 folic acid

NT2 purines

NT3 adenines

NT4 kinetin

NT3 guanine

NT3 guanosine

NT3 hypoxanthine

NT3 inosine

NT3 mercaptopurine

NT3 xanthenes

NT4 caffeine

NT4 theobromine

NT4 theophylline

NT4 uric acid

NT2 quinolines

NT3 ferron

NT3 oxine

NT3 quinaldine

NT1 benzene

NT1 benzidine

NT1 benzyl alcohol

NT1 bibenzyl

NT1 biphenyl

NT1 condensed aromatics

NT2 3-methylcholanthrene

NT2 acenaphthene

NT2 anthracene

NT2 benzanthracene

NT2 benzopyrene

NT2 calixarenes

NT2 cholanthrene

NT2 chrysene

NT2 dimethylbenzanthracene

NT2 fluorene

NT2 indene

NT2 indocyanine green

NT2 methylnaphthalenes

NT2 naphthalene

NT2 pentacene

NT2 perylene

NT2 phenanthrene

NT2 pyrene

NT2 tetracene

NT2 triphenylene

NT1 cumene

NT1 cymene

NT1 ddt

NT1 divinylbenzene

NT1 durene

NT1 halogenated aromatic hydrocarbons

NT2 brominated aromatic hydrocarbons

NT2 chlorinated aromatic hydrocarbons

NT3 aldrin

NT3 polychlorinated biphenyls

NT2 fluorinated aromatic hydrocarbons

NT2 iodinated aromatic hydrocarbons

NT1 indan

NT1 methyl tyrosine

NT1 mibg

NT1 oligophenylenes

NT1 pethidine

NT1 phenols

NT2 cresols



NT2 dinitrophenol  
 NT2 eriochrome dyes  
 NT2 hydroxypropiophenone  
 NT2 naphthols  
   NT3 1-nitroso-2-naphthol  
   NT3 nitroso-r salt  
   NT3 pyridylazonaphthol  
   NT3 thorin  
   NT3 trypan blue  
 NT2 nitrophenol  
 NT2 phenol  
 NT2 phenolphthalein  
 NT2 picric acid  
 NT2 polyphenols  
   NT3 arsenazo  
   NT3 bromosulphophthalein  
   NT3 catecholamines  
   NT3 curcumin  
   NT3 dopamine  
   NT3 fluorescein  
   NT4 erythrosine  
   NT3 hematoxylin  
   NT3 morin  
   NT3 pyridylazoresorcinol  
   NT3 pyrocatechol  
   NT3 pyrogallol  
   NT3 quercetin  
   NT3 resorcinol  
   NT3 stilbestrol  
   NT3 tannic acid  
   NT3 tiron  
 NT2 thymol  
 NT2 tyramine  
 NT2 xylenols  
 NT1 phenylalanine  
 NT1 polycyclic aromatic hydrocarbons  
   NT2 3-methylcholanthrene  
 NT1 polyphenyls  
   NT2 terphenyls  
   NT3 terphenyl-ortho  
   NT3 terphenyl-para  
 NT1 quaterphenyls  
 NT1 quinones  
   NT2 anthraquinones  
   NT3 alizarin  
   NT3 carminic acid  
   NT3 quinizarin  
 NT2 benzoquinones  
   NT3 chloranil  
   NT3 chloranilic acid  
   NT3 plastoquinone  
   NT3 ubiquinone  
 NT2 rhodizonic acid  
 NT2 vitamin k  
 NT1 stilbene  
 NT1 tetralin  
 NT1 tolan  
 RT aromatization  
 RT cyanine dyes  
 RT hydroaromatics  
 RT hydrocarbons  
 RT oleoresins  
 RT organic coolants  
 RT organic moderators  
 RT solvesso  
 RT squarylium dyes

**AROMATIZATION**

1986-05-26

*Conversion of any nonaromatic hydrocarbon structure to aromatic hydrocarbon.*

BT1 chemical reactions  
 RT aromatics

**ARRAY PROCESSORS**

INIS: 1997-06-17; ETDE: 1979-08-08

*Multiprocessors composed of sets of identical CPUs, each set acting synchronously under the control of a common unit.*

UF multiprocessors

\*BT1 digital computers  
 RT cedar computers  
 RT computer architecture  
 RT data processing  
 RT digital filters  
 RT hypercube computers  
 RT microprocessors  
 RT task scheduling

**ARRHENIUS EQUATION**

BT1 equations  
 RT activation energy  
 RT chemical reaction kinetics  
 RT partition  
 RT reaction kinetics

**arsanilic acid**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE amines  
 USE arsonic acids

**ARSENATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 arsenic compounds  
 BT1 oxygen compounds  
 RT arsenic oxides

**ARSENAZO**

\*BT1 arsonic acids  
 \*BT1 azo compounds  
 \*BT1 polyphenols  
 BT1 reagents  
 \*BT1 sulfonic acids

**ARSENIC**

\*BT1 semimetals

**ARSENIC 60**

2007-04-19

\*BT1 arsenic isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

**ARSENIC 61**

2007-04-19

\*BT1 arsenic isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**ARSENIC 62**

2007-04-19

\*BT1 arsenic isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes

**ARSENIC 63**

2007-04-19

\*BT1 arsenic isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes

**ARSENIC 64**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 arsenic isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes

**ARSENIC 65**

INIS: 1990-12-05; ETDE: 1991-01-14

\*BT1 arsenic isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**ARSENIC 66**

INIS: 1979-09-18; ETDE: 1979-03-29

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ARSENIC 67**

INIS: 1978-07-03; ETDE: 1978-04-06

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**ARSENIC 68**

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**ARSENIC 69**

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**ARSENIC 70**

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**ARSENIC 71**

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**ARSENIC 72**

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

**ARSENIC 73**

\*BT1 arsenic isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**ARSENIC 74**

\*BT1 arsenic isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

**ARSENIC 75**

\*BT1 arsenic isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes

**ARSENIC 75 TARGET**

ETDE: 1976-07-09

BT1 targets

**ARSENIC 76**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC 77**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ARSENIC 78**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC 79**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ARSENIC 80**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 81**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 82**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 83**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 84**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 85**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 86**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ARSENIC 87**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei

- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**ARSENIC 88**

2007-04-19

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC 89**

2007-04-19

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ARSENIC 90**

2007-04-19

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC 91**

2007-04-19

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ARSENIC 92**

2007-04-19

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC ADDITIONS**

- \*BT1 arsenic alloys

**ARSENIC ALLOYS***Alloys containing more than 1% As.*

- BT1 alloys
- NT1 arsenic additions
- RT arsenides

**ARSENIC BROMIDES**

- BT1 arsenic compounds
- \*BT1 bromides

**ARSENIC CHLORIDES**

- BT1 arsenic compounds
- \*BT1 chlorides

**ARSENIC COMPLEXES**

- BT1 complexes

**ARSENIC COMPOUNDS**

1996-06-26

- UF *arsonium compounds*
- UF *cacodylic acid*
- NT1 arsenates
- NT1 arsenic bromides
- NT1 arsenic chlorides
- NT1 arsenic fluorides
- NT1 arsenic hydrides
- NT1 arsenic iodides
- NT1 arsenic oxides
- NT1 arsenic selenides
- NT1 arsenic sulfides
- NT1 arsenic tellurides
- NT1 arsenides
- NT2 aluminium arsenides
- NT2 americium arsenides
- NT2 berkelium arsenides
- NT2 boron arsenides
- NT2 cadmium arsenides
- NT2 californium arsenides
- NT2 cerium arsenides
- NT2 cobalt arsenides
- NT2 copper arsenides
- NT2 curium arsenides

- NT2 europium arsenides
- NT2 gadolinium arsenides
- NT2 gallium arsenides
- NT2 germanium arsenides
- NT2 hafnium arsenides
- NT2 indium arsenides
- NT2 iron arsenides
- NT2 lithium arsenides
- NT2 magnesium arsenides
- NT2 manganese arsenides
- NT2 molybdenum arsenides
- NT2 neptunium arsenides
- NT2 nickel arsenides
- NT2 niobium arsenides
- NT2 palladium arsenides
- NT2 platinum arsenides
- NT2 plutonium arsenides
- NT2 praseodymium arsenides
- NT2 ruthenium arsenides
- NT2 samarium arsenides
- NT2 silicon arsenides
- NT2 silver arsenides
- NT2 tellurium arsenides
- NT2 terbium arsenides
- NT2 thorium arsenides
- NT2 thulium arsenides
- NT2 tin arsenides
- NT2 titanium arsenides
- NT2 uranium arsenides
- NT2 vanadium arsenides
- NT2 yttrium arsenides
- NT2 zinc arsenides
- NT2 zirconium arsenides
- NT1 thorin
- RT organic arsenic compounds

**ARSENIC FLUORIDES**

- BT1 arsenic compounds
- \*BT1 fluorides

**ARSENIC HYDRIDES**

- BT1 arsenic compounds
- \*BT1 hydrides

**ARSENIC IODIDES**

- BT1 arsenic compounds
- \*BT1 iodides

**ARSENIC IONS**

- \*BT1 ions

**ARSENIC ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 arsenic 60
- NT1 arsenic 61
- NT1 arsenic 62
- NT1 arsenic 63
- NT1 arsenic 64
- NT1 arsenic 65
- NT1 arsenic 66
- NT1 arsenic 67
- NT1 arsenic 68
- NT1 arsenic 69
- NT1 arsenic 70
- NT1 arsenic 71
- NT1 arsenic 72
- NT1 arsenic 73
- NT1 arsenic 74
- NT1 arsenic 75
- NT1 arsenic 76
- NT1 arsenic 77
- NT1 arsenic 78
- NT1 arsenic 79
- NT1 arsenic 80
- NT1 arsenic 81
- NT1 arsenic 82
- NT1 arsenic 83
- NT1 arsenic 84
- NT1 arsenic 85
- NT1 arsenic 86

NT1 arsenic 87  
 NT1 arsenic 88  
 NT1 arsenic 89  
 NT1 arsenic 90  
 NT1 arsenic 91  
 NT1 arsenic 92

**ARSENIC OXIDES**

1996-07-08

BT1 arsenic compounds  
 \*BT1 oxides  
 RT arsenates  
 RT hallimondite  
 RT heinrichite  
 RT kahlerite  
 RT kirchheimerite  
 RT novacekite  
 RT oxide minerals

**ARSENIC SELENIDES**

INIS: 1978-02-23; ETDE: 1975-08-19

BT1 arsenic compounds  
 \*BT1 selenides

**ARSENIC SULFIDES**

BT1 arsenic compounds  
 \*BT1 sulfides

**ARSENIC TELLURIDES**

INIS: 1977-03-01; ETDE: 1975-08-19

BT1 arsenic compounds  
 \*BT1 tellurides

**ARSENIDES**

1997-06-19

BT1 arsenic compounds  
 BT1 pnictides  
 NT1 aluminium arsenides  
 NT1 americium arsenides  
 NT1 berkelium arsenides  
 NT1 boron arsenides  
 NT1 cadmium arsenides  
 NT1 californium arsenides  
 NT1 cerium arsenides  
 NT1 cobalt arsenides  
 NT1 copper arsenides  
 NT1 curium arsenides  
 NT1 europium arsenides  
 NT1 gadolinium arsenides  
 NT1 gallium arsenides  
 NT1 germanium arsenides  
 NT1 hafnium arsenides  
 NT1 indium arsenides  
 NT1 iron arsenides  
 NT1 lithium arsenides  
 NT1 magnesium arsenides  
 NT1 manganese arsenides  
 NT1 molybdenum arsenides  
 NT1 neptunium arsenides  
 NT1 nickel arsenides  
 NT1 niobium arsenides  
 NT1 palladium arsenides  
 NT1 platinum arsenides  
 NT1 plutonium arsenides  
 NT1 praseodymium arsenides  
 NT1 ruthenium arsenides  
 NT1 samarium arsenides  
 NT1 silicon arsenides  
 NT1 silver arsenides  
 NT1 tellurium arsenides  
 NT1 terbium arsenides  
 NT1 thorium arsenides  
 NT1 thulium arsenides  
 NT1 tin arsenides  
 NT1 titanium arsenides  
 NT1 uranium arsenides  
 NT1 vanadium arsenides  
 NT1 yttrium arsenides  
 NT1 zinc arsenides  
 NT1 zirconium arsenides  
 RT arsenic alloys

RT intermetallic compounds

**arsi reactor**

USE avogadro rs-1 reactor

**arsonates**

INIS: 1984-04-04; ETDE: 2002-06-07

USE organic arsenic compounds

**ARSONIC ACIDS**

1996-07-16

UF *arsanilic acid*  
 UF *beryllon*  
 UF *dsnadns*  
 \*BT1 organic acids  
 \*BT1 organic arsenic compounds  
 NT1 arsenazo

**arsonium compounds**

USE arsenic compounds

**art objects**

INIS: 1981-12-23; ETDE: 1982-02-09

USE cultural objects

**ARTEMIA**

UF *brine shrimp*  
 \*BT1 branchiopods

**ARTEMIS DEVICE**

INIS: 1998-11-12; ETDE: 1998-12-18

\*BT1 reversed-field pinch devices  
 RT reverse-field pinch

**ARTERIES**

\*BT1 blood vessels  
 NT1 aorta  
 NT1 carotid arteries  
 NT1 cerebral arteries  
 NT1 coronaries  
 RT arteriosclerosis  
 RT blood pressure

**ARTERIOSCLEROSIS**

UF *atherosclerosis*  
 \*BT1 cardiovascular diseases  
 \*BT1 vascular diseases  
 RT arteries

**ARTESIAN BASINS**

2000-04-12

*Terranes, often but not necessarily basin shaped, including an artesian aquifer whose potentiometric surface typically is above the land surface in the topographically lower portion of the terrane.*

RT aquifers  
 RT ground water

**arthritis**

USE rheumatic diseases

**ARTHROPODS**

\*BT1 invertebrates  
 NT1 arachnids  
 NT2 mites  
 NT2 scorpions  
 NT2 spiders  
 NT2 ticks  
 NT1 crustaceans  
 NT2 branchiopods  
 NT3 artemia  
 NT3 daphnia  
 NT2 copepods  
 NT2 decapods  
 NT3 crabs  
 NT3 lobsters  
 NT3 prawns  
 NT3 shrimp  
 NT1 insects  
 NT2 coleoptera  
 NT3 beetles

NT4 boll weevil  
 NT4 tribolium  
 NT2 dictyoptera  
 NT3 cockroaches  
 NT2 diptera  
 NT3 flies  
 NT4 fruit flies  
 NT5 anastrepha  
 NT5 ceratitis capitata  
 NT5 dacus  
 NT6 dacus oleae  
 NT5 drosophila  
 NT4 glossina  
 NT4 hylemya antiqua  
 NT4 screwworm fly  
 NT3 mosquitoes  
 NT2 ephemeroptera  
 NT2 hemiptera  
 NT3 aphids  
 NT2 hymenoptera  
 NT3 ants  
 NT3 bees  
 NT3 wasps  
 NT2 lepidoptera  
 NT3 moths  
 NT4 bollworm  
 NT4 codling moth  
 NT4 lymantria dispar  
 NT4 rice stem borers  
 NT4 silkworm  
 NT2 orthoptera  
 NT3 grasshoppers  
 NT4 locusts

**arthur d little coal liquefaction process**

INIS: 2000-04-12; ETDE: 1978-05-01  
 USE coal liquefaction

**ARTIFICIAL INTELLIGENCE**

INIS: 1986-12-09; ETDE: 1984-02-10  
*A subfield of computer science concerned with the concepts and methods of symbolic inference by a computer and the symbolic representation of the knowledge to be used in making inferences.*

RT computers  
 RT expert systems  
 RT knowledge base  
 RT lisp  
 RT neural networks  
 RT programming

**ARTIFICIAL LIFTS**

INIS: 1992-05-28; ETDE: 1977-05-07  
*Any method of lifting oil out of underground reservoirs, usually by injecting gas or foam into a rock or sand formation to force fluids from wells.*

NT1 gas lifts  
 RT oil wells

**ARTIFICIAL ORGANS**

1995-11-15  
 (From June 1977 until March 1996 MECHANICAL KIDNEY was a valid ETDE descriptor.)

UF *mechanical kidney*  
 NT1 mechanical heart  
 RT biotechnology  
 RT cardiac pacemakers  
 RT organs  
 RT prostheses

**ARTIFICIAL RADIATION BELTS**

BT1 radiation belts  
 RT nuclear explosions

**artisans**

INIS: 1993-04-28; ETDE: 2002-06-07  
USE craftsmen

**ARYL 4-MONOOXYGENASE**

INIS: 2000-04-12; ETDE: 1981-06-13  
UF aryl hydrocarbon monooxygenase  
\*BT1 oxidoreductases  
RT mixed-function oxidases

**aryl hydrocarbon monooxygenase**

INIS: 2000-04-12; ETDE: 1981-06-13  
USE aryl 4-monooxygenase

**ARYL RADICALS**

1996-07-16  
(Prior to August 1996 ANISYL RADICALS was a valid ETDE descriptor.)  
UF anisyl radicals  
BT1 radicals  
NT1 benzyl radicals  
NT1 mesityl radicals  
NT1 naphthyl radicals  
NT1 phenethyl radicals  
NT1 phenyl radicals  
NT1 tolyl radicals  
RT arylation

**ARYLATION**

INIS: 2000-04-12; ETDE: 1985-02-22  
The introduction, by substitution or addition, of an aryl group into a chemical compound.  
BT1 chemical reactions  
RT aryl radicals

**arylmagnesium compounds**

USE grignard reagents

**as low as reasonably achievable**

INIS: 1993-11-03; ETDE: 2002-06-07  
USE alara

**as recycling process**

INIS: 2000-04-12; ETDE: 1979-01-30  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE desulfurization

**ASBESTOS**

RT refractories

**ASCARIDAE**

\*BT1 nematodes  
BT1 parasites  
NT1 ascaris  
RT chickens  
RT intestines

**ASCARIS**

\*BT1 ascaridae  
RT small intestine

**aschelminthes**

INIS: 2000-04-12; ETDE: 1981-06-17  
(Prior to September 2005 this was a valid descriptor.)  
SEE nematodes

**ASCITES**

BT1 pathological changes  
BT1 symptoms  
RT ascites tumor cells  
RT ehrlich ascites tumor  
RT neoplasms  
RT peritoneum

**ASCITES TUMOR CELLS**

\*BT1 tumor cells  
RT ascites  
RT ehrlich ascites tumor  
RT neoplasms

**ASCO-1 REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-02  
Asco, Tarragona, Spain.  
\*BT1 pwr type reactors

**ASCO-2 REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-02  
Asco, Tarragona, Spain.  
\*BT1 pwr type reactors

**ASCOLOY**

2000-04-12  
\*BT1 carbon additions  
\*BT1 chromium alloys  
\*BT1 iron base alloys  
\*BT1 manganese additions  
\*BT1 nickel alloys  
\*BT1 silicon additions

**ASCORBIC ACID**

UF vitamin c  
BT1 vitamins  
RT redox process

**ASDEX TOKAMAK**

INIS: 1977-03-01; ETDE: 1977-04-12  
\*BT1 tokamak devices

**ASH CONTENT**

INIS: 1992-03-18; ETDE: 1984-05-08  
RT ashes  
RT chemical composition  
RT coal

**ash separators**

INIS: 2000-04-12; ETDE: 1976-03-22  
USE inertial separators

**ASHES**

1976-02-11  
BT1 combustion products  
BT1 residues  
NT1 fly ash  
RT ash content  
RT deashing  
RT particulates  
RT solid wastes

**ashing (dry)**

USE dry ashing

**ashing (wet)**

USE wet ashing

**asi**

ETDE: 1978-03-08  
USE adiabatic surface ionization

**ASIA**

NT1 afghanistan  
NT1 armenia  
NT1 azerbaijan  
NT1 bahrain  
NT1 bangladesh  
NT1 bhutan  
NT1 brunei  
NT1 cambodia  
NT1 china  
NT2 hong kong  
NT2 taiwan  
NT2 tibet  
NT1 india  
NT1 indonesia  
NT1 iran  
NT1 iraq  
NT1 israel  
NT1 japan  
NT2 hachimantai  
NT2 hirosima  
NT2 nagasaki  
NT1 jordan  
NT1 kazakhstan

NT1 kuwait  
NT1 kyrgyzstan  
NT1 laos  
NT1 lebanon  
NT1 macao  
NT1 malaysia  
NT1 mongolian peoples republic  
NT1 myanmar  
NT1 nepal  
NT1 north korea  
NT1 oman  
NT1 pakistan  
NT1 philippines  
NT1 qatar  
NT1 republic of georgia  
NT1 republic of korea  
NT1 saudi arabia  
NT1 siberia  
NT1 singapore  
NT1 sri lanka  
NT1 syria  
NT1 tajikistan  
NT1 thailand  
NT1 turkey  
NT1 turkmenistan  
NT1 united arab emirates  
NT1 uzbekistan  
NT1 viet nam  
NT1 yemen  
RT arab countries

**asparagic acid**

USE aspartic acid

**ASPARAGINE**

UF agedoite  
UF althein  
UF aminosuccinamic acid-alpha  
UF asparagine-beta  
UF asparamide  
\*BT1 amides  
\*BT1 amino acids  
RT aspartic acid

**asparagine-beta**

USE asparagine

**asparaginic acid**

USE aspartic acid

**asparamide**

USE asparagine

**ASPARTIC ACID**

UF aminosuccinic acid  
UF asparagic acid  
UF asparaginic acid  
\*BT1 amino acids  
RT asparagine  
RT succinic acid

**ASPECT RATIO**

BT1 dimensionless numbers  
RT closed plasma devices  
RT plasma  
RT tori

**ASPENS**

INIS: 1992-01-10; ETDE: 1976-08-04  
\*BT1 poplars  
RT cottonwoods

**ASPERGILLUS**

\*BT1 eumycota  
RT aflatoxins

**ASPHALT RIDGE DEPOSIT**

INIS: 2000-04-12; ETDE: 1977-05-07  
\*BT1 oil sand deposits  
RT oil sands  
RT utah

**ASPHALTENES**

1984-04-04

Dark, solid constituents of crude oils and other bitumens which are soluble in carbon disulfide but insoluble in paraffin naphthas; they hold most of the organic constituents of bitumens.

RT asphalt

**ASPHALTITE**

\*BT1 other organic compounds

RT bitumens

**ASPHALTS**

\*BT1 bitumens

RT asphaltenes

RT pavements

RT road oils

**aspirin**

INIS: 1975-11-27; ETDE: 1976-03-22

USE acetylsalicylic acid

**assaying (qualitative)**

1975-08-20

USE qualitative chemical analysis

**assaying (quantitative)**

INIS: 1975-08-20; ETDE: 2002-01-18

USE quantitative chemical analysis

**ASSE SALT MINE**

INIS: 1988-05-13; ETDE: 1987-08-14

Underground test facility in the Federal Republic of Germany for research and development in the field of radioactive waste storage and disposal.

\*BT1 mines

\*BT1 radioactive waste facilities

RT federal republic of germany

RT salt deposits

RT underground disposal

**assessments**

USE charges

**assets**

INIS: 2000-04-12; ETDE: 1979-12-10

USE financial data

**assignments**

1985-12-10

USE allocations

**assistance in nuclear accident/radiological emergency conv.**

INIS: 1989-02-24; ETDE: 2002-11-14

USE canare

**ASSOCIATED GAS**

INIS: 1992-09-15; ETDE: 1978-03-09

Gaseous hydrocarbons occurring as a free-gas phase under original reservoir conditions of pressure and temperature.

\*BT1 gases

RT oil fields

RT petroleum deposits

**ast-1 reactor**

INIS: 1986-06-10; ETDE: 2002-06-07

USE arbus reactor

**ASTAR 811C**

2000-04-12

\*BT1 hafnium additions

\*BT1 tantalum base alloys

\*BT1 tungsten alloys

**ASTATINATION**

1983-09-06

\*BT1 halogenation

**ASTATINE**

\*BT1 halogens

**ASTATINE 191**

2003-11-13

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**ASTATINE 192**

2007-01-17

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**ASTATINE 193**

2003-11-13

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**ASTATINE 194**

INIS: 1985-11-16; ETDE: 1984-05-08

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**ASTATINE 195**

\*BT1 astatine isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**ASTATINE 196**

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**ASTATINE 197**

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**ASTATINE 198**

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**ASTATINE 199**

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**ASTATINE 200**

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**ASTATINE 201**

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**ASTATINE 202**

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**ASTATINE 203**

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**ASTATINE 204**

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**ASTATINE 205**

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**ASTATINE 206**

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**ASTATINE 207**

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 odd-even nuclei

**ASTATINE 208**

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 odd-odd nuclei

**ASTATINE 209**

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 odd-even nuclei

**ASTATINE 210**

\*BT1 alpha decay radioisotopes

\*BT1 astatine isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 odd-odd nuclei

**ASTATINE 211**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 212**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 212 TARGET**

*INIS: 1992-09-22; ETDE: 1977-11-10*  
BT1 targets

**ASTATINE 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 214**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 215**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 216**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 217**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 218**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ASTATINE 219**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ASTATINE 220**

*INIS: 1989-04-20; ETDE: 1989-05-11*  
\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**ASTATINE 221**

*INIS: 1989-05-29; ETDE: 1989-06-21*  
\*BT1 astatine isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**ASTATINE 222**

*INIS: 1989-05-29; ETDE: 1989-06-21*  
\*BT1 astatine isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**ASTATINE 223**

*INIS: 1989-05-29; ETDE: 1989-06-21*  
\*BT1 astatine isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**astatine additions**

2000-04-12  
(Prior to August 1993 this was a valid ETDE descriptor.)  
USE alloys

**ASTATINE BROMIDES**

1996-07-16  
(From July 1996 to September 2007  
ASTATINE COMPOUNDS + BROMIDES  
was used for this concept.)  
\*BT1 astatine compounds  
\*BT1 bromides

**ASTATINE CHLORIDES**

\*BT1 astatine compounds  
\*BT1 chlorides

**ASTATINE COMPLEXES**

BT1 complexes

**ASTATINE COMPOUNDS**

1996-07-16  
BT1 halogen compounds  
NT1 astatine bromides  
NT1 astatine chlorides  
NT1 astatine halides  
NT2 astatine iodides

**ASTATINE HALIDES**

2008-02-07  
\*BT1 astatine compounds  
\*BT1 halides  
NT1 astatine iodides

**ASTATINE IODIDES**

1996-07-16  
(From July 1996 to February 2008  
ASTATINE COMPOUNDS + IODIDES was  
used for this concept.)  
\*BT1 astatine halides  
\*BT1 iodides

**ASTATINE IONS**

\*BT1 ions

**ASTATINE ISOTOPES**

1999-07-16  
BT1 isotopes  
NT1 astatine 191  
NT1 astatine 192  
NT1 astatine 193  
NT1 astatine 194  
NT1 astatine 195  
NT1 astatine 196  
NT1 astatine 197  
NT1 astatine 198  
NT1 astatine 199

NT1 astatine 200  
NT1 astatine 201  
NT1 astatine 202  
NT1 astatine 203  
NT1 astatine 204  
NT1 astatine 205  
NT1 astatine 206  
NT1 astatine 207  
NT1 astatine 208  
NT1 astatine 209  
NT1 astatine 210  
NT1 astatine 211  
NT1 astatine 212  
NT1 astatine 213  
NT1 astatine 214  
NT1 astatine 215  
NT1 astatine 216  
NT1 astatine 217  
NT1 astatine 218  
NT1 astatine 219  
NT1 astatine 220  
NT1 astatine 221  
NT1 astatine 222  
NT1 astatine 223

**ASTEROIDS**

RT planets  
RT solar system

**ASTHMA**

*INIS: 1978-02-23; ETDE: 1976-10-13*  
\*BT1 respiratory system diseases  
RT immune system diseases

**ASTR REACTOR**

2000-04-12  
*General Dynamics Corp., Fort Worth, Texas, USA. Shut down in 1971.*  
UF aerospace system test reactor  
UF aircraft shield test reactor  
UF fort worth astr reactor  
\*BT1 test reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**ASTRA REACTOR**

*Austrian Research Centres, Seibersdorf, Austria. Shut down, being dismantled.*  
UF adapted swimming pool reactor austria  
UF austrian research reactor  
UF swimming pool tank reactor austria  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
RT seibersdorf research centre

**ASTRID STORAGE RING**

*INIS: 1992-05-26; ETDE: 1994-08-10*  
*Aarhus University, Denmark.*  
BT1 storage rings

**ASTROCYTOMAS**

*INIS: 1992-09-22; ETDE: 1981-01-12*  
(Until September 1992, this concept was indexed by NEOPLASMS.)  
\*BT1 gliomas

**ASTROLOY**

1993-10-03  
\*BT1 alloy-ni55co17cr15mo5al4ti4  
\*BT1 carbon additions

**ASTRON**

\*BT1 closed plasma devices

**ASTRON SATELLITES**

*INIS: 1985-06-10; ETDE: 1985-07-19*  
BT1 satellites

**ASTRONAUTS**

- BT1 personnel
- RT aviation personnel

**ASTRONOMY**

- NT1 gamma astronomy
- NT1 radioastronomy
- RT astrophysics
- RT eclipse
- RT stars

**ASTROPHYSICS**

2000-01-26

- BT1 physics
- RT astronomy
- RT chandrasekhar theory
- RT cosmology
- RT force-free magnetic fields
- RT galactic evolution
- RT red shift

**ASYMMETRY**

1996-03-04

- UF skewness
- NT1 east-west asymmetry
- NT1 north-south asymmetry
- RT anisotropy
- RT asymmetry coefficients
- RT configuration
- RT distribution
- RT orientation
- RT symmetry

**ASYMMETRY COEFFICIENTS**

- RT asymmetry

**asymptotic conditions**

- USE boundary conditions

**ASYMPTOTIC SOLUTIONS**

- BT1 mathematical solutions
- RT boundary conditions
- RT limiting fragmentation
- RT mathematical evolution

**ATC DEVICES**

- UF *adiabatic toroidal compressors*
- \*BT1 tokamak devices

**atf-1 torsatron**

INIS: 1984-04-04; ETDE: 2002-06-07

- USE atf torsatron

**ATF TORSATRON**

INIS: 1984-04-04; ETDE: 1983-07-07

- UF *advanced toroidal facility torsatron*
- UF *atf-1 torsatron*
- \*BT1 torsatron stellarators

**atgas process**

1994-04-12

*Applied technology corporation process for producing intermediate- or high-btu gas using molten iron gasification technique to gasify all types of coal with steam and oxygen at 5 psia pressure and 2600 degrees F. The process can be adapted to make low-btu gas by using air instead of oxygen.*

(Prior to April 1994, this was a valid ETDE descriptor.)

- USE coal gasification

**ATHABASCA DEPOSIT**

1992-06-04

- \*BT1 oil sand deposits
- RT alberta
- RT canada
- RT oil sands

**ATHABASCA LAKE**

- \*BT1 lakes
- RT alberta

- RT saskatchewan

**ATHENE REACTOR**

2000-04-12

- UF *argonaut eindhoven reactor*
- UF *atoomreactor technische hogeschool eindhoven nederland*
- UF *eindhoven argonaut reactor*
- \*BT1 argonaut type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**atherosclerosis**

- USE arteriosclerosis

**ATLANTA**

INIS: 1992-06-04; ETDE: 1977-10-20

- \*BT1 georgia
- BT1 urban areas

**ATLANTIC-1 REACTOR**

Public Service Electric and Gas Co., USA.

Canceled in 1978.

- \*BT1 pwr type reactors
- RT offshore nuclear power plants

**ATLANTIC-2 REACTOR**

Public Service Electric and Gas Co., USA.

Canceled in 1978.

- \*BT1 pwr type reactors
- RT offshore nuclear power plants

**ATLANTIC OCEAN**

1997-06-19

- \*BT1 seas
- NT1 baltimore canyon
- NT1 bay of biscay
- NT1 bay of fundy
- NT1 biscayne bay
- NT1 caribbean sea
- NT2 gulf of mexico
- NT3 galveston bay
- NT3 san antonio bay
- NT1 chesapeake bay
- NT1 delaware bay
- NT1 gulf of maine
- NT1 irish sea
- NT1 long island sound
- NT1 mid-atlantic bight
- NT2 new york bight
- NT1 north sea
- NT2 wadden sea
- NT1 onslow bay
- NT1 sargasso sea
- NT1 south atlantic bight
- NT1 weddell sea
- RT bahama islands
- RT bermuda
- RT cape verde islands
- RT faeroe islands
- RT georges bank
- RT gulf stream
- RT iceland
- RT mid-atlantic ridge
- RT newfoundland
- RT prince edward island
- RT us east coast

**atlas computers**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE computers

**atlas rockets**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

- USE rockets

**ATLAS SUPERCONDUCTING LINAC**

INIS: 1985-11-18; ETDE: 1985-04-24

*Argonne Tandem/Linear Accelerator.*

- UF *argonne superconducting linac*
- UF *argonne tandem/linear accelerator*
- \*BT1 hilacs

**ATMOSPHERES**

*Not for concepts covered by EARTH ATMOSPHERE.*

- NT1 controlled atmospheres
- NT2 inert atmosphere
- NT3 cover gas
- NT1 planetary atmospheres
- NT2 planetary ionospheres
- NT2 planetary magnetospheres
- NT1 satellite atmospheres
- NT2 lunar atmosphere
- NT1 stellar atmospheres
- NT2 solar atmosphere
- NT3 chromosphere
- NT3 heliosphere
- NT3 photosphere
- NT3 solar corona
- NT2 stellar chromospheres
- NT2 stellar coronae
- NT3 solar corona
- NT2 stellar magnetospheres

**ATMOSPHERIC CHEMISTRY**

INIS: 1981-05-11; ETDE: 1979-06-06

*Study of the production, transport, modification, and removal of atmospheric constituents in the troposphere and stratosphere.*

- BT1 chemistry
- RT air pollution
- RT greenhouse gases
- RT ozone
- RT photochemical reactions
- RT photochemistry
- RT smog

**ATMOSPHERIC CIRCULATION**

INIS: 1991-09-19; ETDE: 1982-08-24

*Global or hemispheric air movements which can be treated by equations of motion, in contrast to atmospheric diffusion which is small random movement not amenable to treatment by these equations.*

- RT air flow
- RT box models
- RT climate models
- RT climates
- RT currents
- RT earth atmosphere
- RT general circulation models
- RT meteorology
- RT southern oscillation
- RT wind

**ATMOSPHERIC EXPLOSIONS**

1996-06-26

- UF *annie event*
- UF *argus event*
- UF *boltzmann event*
- UF *harry event*
- UF *orange event*
- UF *romeo event*
- UF *smoky event*
- UF *starfish event*
- UF *teak event*
- UF *tewa event*
- UF *yankee event*
- BT1 explosions
- NT1 ranger project
- NT1 trinity event
- RT castle project
- RT crossroads project
- RT dominic project

RT earth atmosphere  
 RT little boy  
 RT nuclear explosion detection  
 RT nuclear explosions  
 RT redwing project

**atmospheric exposure chambers**

INIS: 1978-09-28; ETDE: 1977-10-20  
 USE exposure chambers

**atmospheric inversion**

INIS: 2000-04-12; ETDE: 1980-09-04  
 USE temperature inversions

**ATMOSPHERIC PRECIPITATIONS**

UF precipitations (atmospheric)  
 NT1 hail  
 NT1 rain  
 NT2 acid rain  
 NT1 snow  
 RT aitken nuclei  
 RT climates  
 RT clouds  
 RT droplets  
 RT droughts  
 RT earth atmosphere  
 RT environmental materials  
 RT fallout  
 RT fog  
 RT ground water  
 RT hydrosphere  
 RT interception  
 RT meteorology  
 RT rain water  
 RT runoff  
 RT seasons  
 RT storms  
 RT surface waters  
 RT throughfall  
 RT washout  
 RT weather

**ATMOSPHERIC PRESSURE**

INIS: 1992-06-30; ETDE: 1979-07-18  
 RT earth atmosphere  
 RT pressure measurement  
 RT southern oscillation

**atmospheric temperature**

INIS: 1993-07-06; ETDE: 2002-06-07  
 USE ambient temperature

**ATMOSPHERICS**

UF sferics  
 \*BT1 radio noise  
 RT whistlers

**ATOM-ATOM COLLISIONS**

\*BT1 atom collisions  
 RT electron exchange

**ATOM COLLISIONS**

BT1 collisions  
 NT1 atom-atom collisions  
 NT1 atom-molecule collisions  
 NT1 electron-atom collisions  
 NT1 ion-atom collisions  
 NT1 muon-atom collisions  
 NT1 photon-atom collisions  
 NT1 positron-atom collisions  
 RT atomic physics

**ATOM-MOLECULE COLLISIONS**

\*BT1 atom collisions  
 \*BT1 molecule collisions  
 RT electron exchange

**ATOM TRANSPORT**

1975-09-09  
 UF transport (atoms)  
 \*BT1 neutral-particle transport  
 RT atoms

RT diffusion  
 RT mass transfer  
 RT transport theory

**atomic absorption spectroscopy**

USE absorption spectroscopy

**ATOMIC BEAM DIFFRACTION**

INIS: 1975-09-26; ETDE: 1975-10-28  
 \*BT1 diffraction  
 RT crystallography

**ATOMIC BEAM SOURCES**

INIS: 1977-09-15; ETDE: 1977-11-10  
 BT1 neutral beam sources  
 RT atomic beams  
 RT beam injection heating  
 RT ion sources  
 RT neutral atom beam injection

**ATOMIC BEAMS**

UF abmr method  
 BT1 beams  
 RT atomic beam sources  
 RT beam strippers

**atomic bombs**

USE nuclear weapons

**ATOMIC CLOCKS**

RT electronic equipment  
 RT time interval analyzers  
 RT time measurement

**atomic clouds**

USE radioactive clouds

**ATOMIC CLUSTERS**

INIS: 1992-10-19; ETDE: 1992-11-04  
 RT cluster beams  
 RT fullerenes  
 RT ion pairs

**ATOMIC DISPLACEMENTS**

INIS: 1982-11-29; ETDE: 1983-02-09  
 (From September 1979 till February 1997  
 DISPLACEMENT RATES was a valid ETDE  
 descriptor.)

UF displacements (atomic)  
 UF dpa  
 SF displacement rates  
 \*BT1 physical radiation effects

**atomic energy**

INIS: 1980-04-02; ETDE: 1980-05-06  
 USE nuclear energy

**ATOMIC ENERGY ACT**

INIS: 2000-04-12; ETDE: 1980-04-14  
 \*BT1 atomic energy laws

**ATOMIC ENERGY AGREEMENTS**

\*BT1 international agreements

**ATOMIC ENERGY CONTROL**

BT1 control  
 NT1 international control  
 NT1 national control  
 RT atomic energy laws  
 RT legal aspects  
 RT safeguards

**atomic energy control board (canada)**

INIS: 1993-11-03; ETDE: 2002-06-07  
 Atomic Energy Control Board of Canada.  
 USE canadian aecb

**atomic energy law**

INIS: 1990-12-15; ETDE: 2002-06-07  
 USE atomic energy laws

**ATOMIC ENERGY LAWS**

1990-12-15  
 (Prior to December 1990, in INIS this was  
 spelled ATOMIC ENERGY LAW.)  
 UF atomic energy law  
 BT1 laws  
 NT1 atomic energy act  
 NT1 nuclear waste policy acts  
 RT atomic energy control  
 RT secrecy protection

**ATOMIC ENERGY OF CANADA LTD**

INIS: 1977-09-06; ETDE: 1977-11-09  
 UF aecl  
 \*BT1 canadian organizations  
 NT1 chalk river nuclear labs  
 NT1 wnre

**atomic energy research establishment**

USE aere

**atomic explosions**

USE nuclear explosions

**atomic fluorescence spectroscopy**

2000-04-12  
 USE fluorescence spectroscopy

**ATOMIC FORCE MICROSCOPY**

INIS: 1999-07-26; ETDE: 1999-09-09  
 Technique used to study surface properties of  
 materials from atomic to micron level. A sharp  
 tip, on a cantilever spring, is scanned over a  
 surface; a detector measures the cantilever  
 deflection.  
 UF afm  
 UF magnetic force microscopy  
 BT1 microscopy  
 RT scanning tunneling microscopy

**ATOMIC IONS**

INIS: 1975-11-11; ETDE: 1975-12-16  
 Coordinate the above descriptor with a  
 descriptor for the appropriate specific ion.  
 UF ions (atomic)  
 \*BT1 ions

**ATOMIC MODELS**

1999-03-17  
 UF models (atomic)  
 UF molecular orbital model  
 BT1 mathematical models  
 NT1 thomas-fermi model  
 RT atomic physics  
 RT atomic radii  
 RT bohr theory  
 RT configuration interaction  
 RT electron correlation  
 RT electronic structure  
 RT harmonic oscillator models  
 RT hartree-fock method  
 RT optical models  
 RT self-consistent field  
 RT single-particle model

**ATOMIC NUMBER**

UF nuclear charge  
 RT periodic system  
 RT stopping power

**ATOMIC PHYSICS**

INIS: 1983-06-30; ETDE: 1982-08-11  
 Use only for indexing articles of very broad  
 coverage, such as annual reviews, text books,  
 etc.  
 BT1 physics  
 RT atom collisions  
 RT atomic models

**atomic power company main yankee**

1993-11-03  
 USE maine yankee reactor



**ATOMIC RADII**

- RT* atomic models  
*RT* electronic structure

**atomic shells**

- USE* electronic structure

**atomic shells (k)**

- INIS: 1976-07-06; ETDE: 1976-08-24*  
*USE* k shell

**atomic shells (l)**

- INIS: 1976-07-06; ETDE: 1976-08-24*  
*USE* l shell

**atomic shells (m)**

- INIS: 1976-07-06; ETDE: 1976-08-24*  
*USE* m shell

**atomic shells (n)**

- INIS: 1979-11-02; ETDE: 1978-10-23*  
*USE* n shell

**atomic weapons**

- USE* nuclear weapons

**atomic weight**

- INIS: 2000-04-12; ETDE: 1982-10-05*  
*SEE* mass number

**atomics international aqueous carbonate process**

- INIS: 2000-04-12; ETDE: 1977-05-07*  
*USE* desulfurization

**ATOMICS INTERNATIONAL CANOGA PARK PLANT**

- INIS: 1996-07-16; ETDE: 1976-11-17*  
 \*BT1 us doe  
 \*BT1 us erda  
*RT* california

**atomics international I-77 reactor**

- 1993-11-03  
*USE* ai-I-77 reactor

**atomics international molten salt process**

- INIS: 2000-04-12; ETDE: 1975-10-01*  
*USE* molten salt coal gasification process

**atomics international prototype fast reactor**

- 1993-11-03  
*USE* aipfr reactor

**atomics international reduction oxidation dry reprocessing**

- INIS: 2000-04-12; ETDE: 1979-09-26*  
*USE* airox process

**ATOMIZATION**

- RT* aerosols  
*RT* droplets  
*RT* fuel injection systems  
*RT* sprays

**ATOMKI**

- 1986-04-03  
*UF* mta atommagkutato intezete  
 \*BT1 hungarian organizations

**atomki cyclotron**

- INIS: 1985-05-15; ETDE: 1985-07-18*  
*USE* debrecen cyclotron

**atomkraftwerk muehleberg**

- USE* muehleberg reactor

**atomkraftwerk rheinsberg akw1 reaktor**

- INIS: 1993-11-03; ETDE: 2002-06-07*  
*USE* rheinsberg akw1 reaktor

**ATOMS**

- NT1** hadronic atoms  
**NT2** mesic atoms  
**NT3** kaonic atoms  
**NT3** pionic atoms  
**NT2** protonium  
**NT1** isoelectronic atoms  
**NT1** muonic atoms  
*RT* atom transport  
*RT* aufbau principle  
*RT* fundamental constants  
*RT* kihara potential  
*RT* matrix isolation  
*RT* muonium  
*RT* positronium  
*RT* superradiance

**atoomreactor technische hogeschool eindhoven nederland**

- 2000-04-12  
*USE* athene reactor

**ATP**

- UF* adenosine triphosphate  
 \*BT1 nucleotides  
*RT* adenines  
*RT* adenosine  
*RT* atp-ase

**ATP-ASE**

- Code numbers 3.6.1.3 and 3.6.1.8.*  
*UF* adenosine triphosphatase  
 \*BT1 phosphohydrolases  
*RT* atp

**ATPR REACTOR**

- 2000-04-12  
*UF* triga-mk-f prototype reactor  
*SF* triga-mk-3 reactor  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**ATR REACTOR**

- INEEL, Idaho Falls, Idaho, USA.*  
*UF* advanced test idaho reactor  
*UF* idaho advanced test reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 materials testing reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**ATRC REACTOR**

- INEEL, Idaho Falls, Idaho, USA.*  
*UF* advanced test reactor critical facility  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

**ATRIA**

- INIS: 1992-08-25; ETDE: 1981-11-10*  
*RT* buildings  
*RT* high rooms

**atropa belladonna**

- 1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
*USE* magnoliopsida  
*USE* medicinal plants

**ATROPHY**

- BT1* pathological changes

**ATROPINE**

- 1996-11-13  
 \*BT1 alkaloids  
 \*BT1 parasympatholytics

**ATS SATELLITES**

- BT1* satellites

**ATSR REACTOR**

- 2000-04-12  
*ANL, Argonne, Illinois, USA. Shut down in 1988.*  
*UF* argonne thermal source reactor  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**ATTACHED GREENHOUSES**

- INIS: 1992-08-25; ETDE: 1979-02-27*  
 \*BT1 greenhouses  
*RT* passive solar heating systems

**ATTAPULGITE**

- INIS: 1980-05-14; ETDE: 1979-07-18*  
 \*BT1 clays  
*RT* fullers earth

**ATTENUATION**

- In classical physics only. For reducing the intensity of waves and submolecular particles when passing through matter employing classical physics use the above descriptor, when employing quantum physics use ABSORPTION. For attenuation cross sections, see also TOTAL CROSS SECTIONS.*  
*RT* acoustic esr  
*RT* acoustic nmr  
*RT* damping  
*RT* energy losses  
*RT* opacity  
*RT* transmission

**ATTICS**

- INIS: 2000-04-12; ETDE: 1979-03-27*  
*The parts of buildings immediately below the roof and entirely or partly within the roof framing.*  
*RT* buildings

**attitude control**

- INIS: 2000-04-12; ETDE: 1975-07-29*  
 (Prior to February 1997 this was a valid ETDE descriptor.)  
*USE* control  
*USE* orientation

**ATTITUDES**

- INIS: 1985-12-10; ETDE: 1980-04-14*  
**NT1** safety culture  
*RT* behavior  
*RT* human factors  
*RT* learning  
*RT* public anxiety  
*RT* public opinion

**attitudes of the public**

- INIS: 2000-04-12; ETDE: 1978-03-03*  
*USE* public opinion

**ATTRACTORS**

INIS: 1987-02-26; ETDE: 1990-11-14

- NTI limit cycle
- RT phase space
- RT randomness
- RT turbulence

**atucha-1 reactor**

INIS: 1980-02-26; ETDE: 1980-03-29

- USE atucha reactor

**ATUCHA-2 REACTOR**

INIS: 1980-02-26; ETDE: 1980-03-29

Lima, Buenos Aires, Argentina.

- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- \*BT1 pressure tube reactors
- \*BT1 thermal reactors

**ATUCHA REACTOR**

Lima, Buenos Aires, Argentina.

- UF atucha-1 reactor
- UF central nuclear en atucha reactor
- UF cna reactor
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- \*BT1 pressure tube reactors
- \*BT1 thermal reactors

**ATWS**

1975-09-01

Anticipated Transients Without Scram.

- \*BT1 design basis accidents
- RT scram
- RT transients

**AU SABLE RIVER**

INIS: 2000-04-12; ETDE: 1980-12-08

- \*BT1 rivers
- RT hydroelectric power plants
- RT michigan

**AUBE PLANT**

INIS: 1993-04-19; ETDE: 1992-11-20

- UF soulaines plant
- \*BT1 radioactive waste facilities

**AUC**

1979-11-02

- UF ammonium uranyl carbonates
- \*BT1 ammonium carbonates
- \*BT1 uranyl compounds

**audible alarm**

INIS: 1984-04-04; ETDE: 2002-06-07

- USE alarm systems

**AUDITORY ORGANS**

- UF ears
- UF labyrinth
- \*BT1 sense organs
- RT vestibular apparatus

**AUDITS**

INIS: 1985-12-10; ETDE: 1979-11-23

Documented activities undertaken to determine the adequacy of or the adherence to established procedures, instructions, specifications, codes, standards, etc., and the effectiveness of implementation.

- NTI compliance audits
- NTI energy audits
- RT accounting
- RT debt collection
- RT evaluation
- RT inspection
- RT licensing
- RT management
- RT quality assurance
- RT us doe inspector general
- RT verification

**AUFBAU PRINCIPLE**

- UF aufbauprinzip
- RT atoms
- RT electronic structure

**aufbauprinzip**

- USE aufbau principle

**AUFWUCHS**

INIS: 1993-07-12; ETDE: 1977-04-12

Organisms attached to or moving upon a submerged substrate.

- UF periphyton
- BT1 aquatic organisms

**AUGER EFFECT**

Includes all particles, processes, and spectra associated with the auger effect.

- NTI coster-kronig transitions
- RT auger electron spectroscopy
- RT autoionization
- RT electron emission
- RT energy-level transitions
- RT inner-shell ionization

**AUGER ELECTRON****SPECTROSCOPY**

- \*BT1 electron spectroscopy
- RT auger effect

**AUGER MINING**

INIS: 2000-04-12; ETDE: 1977-03-08

- BT1 mining
- RT hydraulic mining
- RT mining engineering
- RT mining equipment
- RT surface mining

**AUGMENTATION**

INIS: 1985-12-10; ETDE: 1979-07-18

Increasing or making more numerous, larger, or more intense, e.g., augmentation of heat transfer.

- UF increasing
- RT expansion
- RT growth
- RT minimization
- RT optimization
- RT shrinkage

**aurabon process**

INIS: 2000-04-12; ETDE: 1982-05-12

Process for the catalytic conversion of heavy crudes and tars containing large quantities of asphaltenes and metals.

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE refining

**aurates**

1996-07-16

(Until July 1996 this was a valid descriptor.)

- USE gold compounds
- USE oxygen compounds

**aurin**

INIS: 2000-04-12; ETDE: 1996-02-27

(Prior to February 1996 this was a valid ETDE descriptor.)

- USE polyphenols
- USE triphenylmethane dyes

**aurintricarboxylic acid**

1996-10-22

(Prior to March 1997 ALUMINON was used for this concept in ETDE.)

- USE hydroxy acids
- USE triphenylmethane dyes

**AURORA FACILITY**

INIS: 1986-01-21; ETDE: 1985-09-24

Large KrF laser facility at Los Alamos.

- RT antares facility
- RT icf devices
- RT inertial confinement
- RT krypton fluoride lasers
- RT lanl
- RT laser fusion reactors

**AURORAE**

- NTI midday aurorae
- NTI polar-cap aurorae
- RT airglow
- RT auroral oval
- RT auroral zones
- RT charged-particle precipitation
- RT electron precipitation
- RT harang discontinuity
- RT night sky
- RT proton precipitation
- RT trapped protons

**auroral electrojets**

- USE electrojets

**AURORAL HISS**

- \*BT1 electromagnetic radiation
- RT ionosphere
- RT whistlers

**AURORAL OVAL**

- NTI harang discontinuity
- RT aurorae
- RT auroral zones
- RT charged-particle precipitation
- RT electron precipitation
- RT ionosphere
- RT midday aurorae
- RT polar-cap aurorae
- RT polar cusp
- RT proton precipitation

**auroral substorms**

- USE magnetic bays

**AURORAL ZONES**

- UF zones (auroral)
- RT antarctic regions
- RT arctic regions
- RT aurorae
- RT auroral oval
- RT ionosphere
- RT midday aurorae
- RT polar-cap aurorae

**AUSTENITE**

A solid solution of carbon in gamma-iron.

- \*BT1 carbon additions
- \*BT1 iron alloys
- RT austenitic steels
- RT decarburization
- RT iron-gamma
- RT martensite
- RT solid solutions

**AUSTENITIC STEELS**

INIS: 1996-11-13; ETDE: 1978-02-14

Steels having at room temperature a microstructure consisting, at least predominantly, of austenite. Their austenitic microstructure is attained above all by alloying conditions, e.g., Mn for Ni. (Prior to February, 1978 STEELS and AUSTENITE were used to index this concept in ETDE.)

- UF stainless steel-330
- UF steel-13cr6nimo
- UF steel-40kh13n8g8
- UF steel-cr13mn8ni8
- UF steel-cr13ni6mo-1

UF steel-ni17cr14moti-1  
 UF steel-ni36cr18  
 \*BT1 steels  
 NT1 steel-cr15ni15motib  
 NT1 steel-cr16ni13monbv  
 NT1 steel-cr16ni15mo3nb  
 NT1 steel-cr16ni16monb  
 NT1 steel-cr16ni8mo2  
 NT2 stainless steel-16-8-2  
 NT1 steel-cr17ni12mo3  
 NT2 stainless steel-316  
 NT1 steel-cr17ni12mo3-1  
 NT2 stainless steel-316l  
 NT2 stainless steel-zncd17-13  
 NT1 steel-cr17ni12monb  
 NT1 steel-cr17ni13  
 NT1 steel-cr17ni13mo2ti  
 NT1 steel-cr17ni13mo3ti  
 NT1 steel-cr17ni7  
 NT2 stainless steel-301  
 NT1 steel-cr18ni10  
 NT2 stainless steel-18-10  
 NT1 steel-cr18ni10-1  
 NT1 steel-cr18ni10ti  
 NT2 stainless steel-321  
 NT1 steel-cr18ni11  
 NT2 steel-x6crni1811  
 NT1 steel-cr18ni11nb  
 NT2 stainless steel-347  
 NT1 steel-cr18ni11nbco  
 NT2 stainless steel-348  
 NT1 steel-cr18ni12  
 NT2 stainless steel-305  
 NT1 steel-cr18ni12ti  
 NT1 steel-cr18ni8  
 NT2 stainless steel-18-8  
 NT1 steel-cr18ni9  
 NT2 stainless steel-302  
 NT1 steel-cr18ni9ti  
 NT1 steel-cr19ni10  
 NT2 stainless steel-304  
 NT1 steel-cr19ni10-1  
 NT2 stainless steel-304l  
 NT1 steel-cr20ni11  
 NT2 stainless steel-308  
 NT1 steel-cr20ni11-1  
 NT2 stainless steel-308l  
 NT1 steel-cr21mn9ni6  
 NT2 stainless steel-21-6-9  
 NT1 steel-cr23ni14  
 NT2 stainless steel-309  
 NT2 stainless steel-309s  
 NT1 steel-cr23ni18  
 NT1 steel-cr25ni20  
 NT2 alloy-hk-40  
 NT2 stainless steel-310  
 NT1 steel-ni25cr20  
 NT2 stainless steel-20-25  
 NT1 steel-ni26cr15ti2movalb  
 NT2 alloy-a-286  
 RT austenite  
 RT corrosion resistant alloys  
 RT heat resisting alloys

**AUSTRALASIA**

NT1 australia  
 NT2 new south wales  
 NT2 northern territory  
 NT2 queensland  
 NT2 south australia  
 NT2 tasmania  
 NT2 victoria  
 NT2 western australia  
 NT1 new guinea  
 NT2 papua new guinea  
 NT1 new zealand

**AUSTRALIA**

1997-06-19

UF bass strait

BT1 australasia  
 BT1 developed countries  
 NT1 new south wales  
 NT1 northern territory  
 NT1 queensland  
 NT1 south australia  
 NT1 tasmania  
 NT1 victoria  
 NT1 western australia  
 RT mary kathleen mines  
 RT new guinea  
 RT oceania  
 RT oecd  
 RT rum jungle mine  
 RT tasman sea  
 RT timor sea

**australian atomic energy commission**

INIS: 1996-01-30; ETDE: 1978-04-28

USE ansto

**australian moata reactor**

USE moata reactor

**AUSTRALIAN ORGANIZATIONS**

INIS: 1978-02-23; ETDE: 1977-05-07

BT1 national organizations

NT1 ansto

**australian replacement research****reactor**

2005-07-22

USE opal reactor

**australites**

USE tektites

**AUSTRIA**

1998-06-10

BT1 developed countries

\*BT1 western europe

RT alps

RT ctbto

RT danube river

RT iaea

RT oecd

RT rhine river

RT unido

**AUSTRIAN ORGANIZATIONS**

INIS: 1980-12-01; ETDE: 1981-01-09

BT1 national organizations

NT1 seibersdorf research centre

**austrian research center seibersdorf**

INIS: 1993-11-04; ETDE: 2002-06-07

USE seibersdorf research centre

**austrian research reactor**

USE astra reactor

**austrian triga-mark-ii reactor**

2000-04-12

USE triga-2-vienna reactor

**austrian triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-06-07

USE triga-2-vienna reactor

**AUTOCLAVES**

RT laboratory equipment

RT pressure vessels

**AUTOHYDROLYSIS**

INIS: 2000-04-12; ETDE: 1984-10-10

The use of heat or steam in the pretreatment of biomass to enhance subsequent conversion processes.

UF steam explosion process

BT1 heat treatments

\*BT1 hydrolysis

RT biomass

**AUTOIGNITION**

2007-01-08

BT1 ignition

RT antiknock ratings

RT internal combustion engines

RT knock control

RT spontaneous combustion

**AUTOIONIZATION**

BT1 ionization

RT auger effect

RT inner-shell ionization

**AUTOLYSIS**

\*BT1 decomposition

NT1 autoradiolysis

RT enzymes

**AUTOMATION**

RT computer-aided manufacturing

RT distance

RT dna sequencers

RT man-machine systems

RT reactor control systems

RT remote handling

RT work

**automobile efficiency standards**

INIS: 2000-04-12; ETDE: 1979-03-28

USE automobiles

USE efficiency

USE standards

**automobile exhaust reactors**

INIS: 2000-04-12; ETDE: 1975-11-11

USE afterburners

**automobile industry**

INIS: 1992-03-25; ETDE: 1977-06-21

USE automotive industry

**AUTOMOBILES**

1997-06-19

UF automobile efficiency standards

UF cars

BT1 vehicles

RT afterburners

RT automotive accessories

RT carpooling

RT catalytic converters

RT exhaust gases

RT exhaust recirculation systems

RT ignition systems

RT mechanical transmissions

RT motor vehicle operators

RT occupants

RT pcv systems

RT rankine cycle engines

RT road tests

RT spark ignition engines

RT stratified charge engines

RT taxicabs

RT vans

**AUTOMOTIVE ACCESSORIES**

INIS: 2000-04-12; ETDE: 1981-09-22

RT air conditioning

RT alternators

RT automobiles

RT blowers

RT pumps

**AUTOMOTIVE FUELS**

1997-06-17

BT1 fuels

RT alcohol fuels

RT ethanol fuels

RT fuel consumption

RT gasohol

RT gasoline

RT gasoline service stations

RT hydrogen fuels  
 RT kerosene  
 RT knock control  
 RT liquid fuels  
 RT methanol fuels

**AUTOMOTIVE INDUSTRY**

INIS: 1992-03-25; ETDE: 1980-05-06

UF automobile industry  
 BT1 industry  
 RT aaps

**AUTONOMIC NERVOUS SYSTEM**

UF parasympathetic nervous system  
 UF sympathectomy  
 UF sympathetic nervous system  
 BT1 nervous system  
 NT1 vagus  
 RT autonomic nervous system agents  
 RT ganglions  
 RT hypothalamus  
 RT parasympatholytics  
 RT parasympathomimetics  
 RT radiation syndrome  
 RT sympatholytics  
 RT sympathomimetics

**AUTONOMIC NERVOUS SYSTEM AGENTS**

INIS: 1984-05-24; ETDE: 1981-04-20

BT1 drugs  
 NT1 neuroregulators  
 NT2 acetylcholine  
 NT2 adrenaline  
 NT2 aminobutyric acid  
 NT2 dopa  
 NT2 dopamine  
 NT2 endorphins  
 NT3 enkephalins  
 NT2 noradrenaline  
 NT2 serotonin  
 NT3 bufotenine  
 NT1 parasympatholytics  
 NT2 atropine  
 NT2 nicotine  
 NT1 parasympathomimetics  
 NT2 acetylcholine  
 NT2 eserine  
 NT2 nicotine  
 NT2 pilocarpine  
 NT1 spiperone  
 NT1 sympatholytics  
 NT2 ergotamine  
 NT2 reserpine  
 NT1 sympathomimetics  
 NT2 adrenaline  
 NT2 amphetamines  
 NT3 benzedrine  
 NT2 dopamine  
 NT2 ephedrine  
 NT2 noradrenaline  
 NT2 serotonin  
 NT3 bufotenine  
 NT2 tyramine  
 RT autonomic nervous system

**AUTOPSY**

BT1 diagnostic techniques  
 RT biopsy  
 RT pathology

**autoradiographs**

USE images

**AUTORADIOGRAPHY**

UF alpha autoradiography  
 UF radioautography  
 UF radiography (auto)  
 RT ceramography  
 RT diagnostic techniques  
 RT industrial radiography

RT labelled compounds  
 RT nondestructive testing  
 RT nuclear emulsions  
 RT tracer techniques

**AUTORADIOLYSIS**

\*BT1 autolysis  
 \*BT1 radiolysis  
 RT labelled compounds  
 RT self-irradiation

**AUTOTHERMAL REFORMER PROCESSES**

INIS: 2000-04-12; ETDE: 1981-03-17  
*Air, steam, and hydrocarbon fuel are fed into a furnace and partial oxidation of the hydrocarbon provides the heat for steam reforming of the hydrocarbon.*  
 UF adiabatic reformer processes  
 \*BT1 reformer processes  
 RT hydrogen production  
 RT partial oxidation processes

**AUTOTROPHS**

INIS: 2000-04-12; ETDE: 1979-03-27  
*Organisms capable of synthesizing organic nutrients directly from simple inorganic substances such as carbon dioxide and inorganic nitrogen.*  
 RT microorganisms  
 RT single cell protein  
 RT synthetic fuels

**AUTUNITE**

\*BT1 phosphate minerals  
 \*BT1 uranium minerals

**AUXILIARY HEATING**

INIS: 1999-10-11; ETDE: 1975-10-01  
 \*BT1 space heating  
 RT auxiliary systems

**AUXILIARY SYSTEMS**

1985-12-10  
*May be used in any field.*  
 NT1 auxiliary water systems  
 NT2 condenser cooling systems  
 RT auxiliary heating  
 RT remote handling equipment

**AUXILIARY WATER SYSTEMS**

1976-04-03  
*For service water systems or other water systems not intended to be part of the cooling or moderating water system of a reactor.*  
 UF component cooling systems  
 UF refueling water systems  
 UF service water systems  
 BT1 auxiliary systems  
 NT1 condenser cooling systems  
 RT coolant loops  
 RT discharge canals  
 RT drinking water  
 RT feedwater  
 RT intake canals  
 RT reactor cooling systems

**AUXINS**

BT1 plant growth regulators  
 RT abscisic acid  
 RT gibberellic acid

**AVAILABILITY**

1999-03-19  
 UF supply  
 RT allocations  
 RT demand  
 RT domestic supplies  
 RT economics  
 RT energy sources  
 RT geologic deposits  
 RT inventories

RT ore composition  
 RT outages  
 RT production  
 RT shortages

**avalanche multiplication**

INIS: 1982-07-22; ETDE: 1982-08-06  
 USE townsend discharge

**AVALANCHE QUENCHING**

1978-07-03  
 UF quenching (avalanche)  
 RT geiger-mueller counters  
 RT ionization chambers  
 RT proportional counters  
 RT townsend discharge

**avena**

USE oats

**average magnetic well**

USE minimum average-b configurations

**avg process**

2000-04-12  
 USE coal gasification

**aviation fuels**

2000-04-12  
 SEE gasoline  
 SEE jet engine fuels

**AVIATION PERSONNEL**

BT1 personnel  
 RT astronauts  
 RT military personnel

**AVIDIN**

INIS: 2002-04-22; ETDE: 2002-05-01  
 \*BT1 glycoproteins

**avlis**

2001-03-06  
*Atomic Vapor Laser Isotope Separation.*  
 USE laser isotope separation

**AVOCADOS**

1983-06-30  
 \*BT1 fruits  
 RT fruit trees

**AVOGADRO RS-1 REACTOR**

Saluggia, Italy.  
 UF arsi reactor  
 UF rsi avogadro reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**AVOIDANCE**

Limited to living systems.  
 BT1 behavior  
 RT conditioned reflexes

**AVR REACTOR**

Juelich, Federal Republic of Germany.  
 UF arbeitgemeinschaft versuchsreaktor  
 \*BT1 enriched uranium reactors  
 \*BT1 helium cooled reactors  
 \*BT1 htgr type reactors  
 \*BT1 pebble bed reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors  
 \*BT1 thorium reactors

**AWARDS**

INIS: 2000-04-12; ETDE: 1981-01-27  
*Recognition of outstanding achievement or performance.*  
 UF enrico fermi award  
 UF ernest orlando lawrence award

**AWAY-FROM-REACTOR STORAGE**

INIS: 1980-04-02; ETDE: 1979-05-02

UF *afr storage*

\*BT1 spent fuel storage

RT after-heat

RT dry storage

RT fuel storage pools

RT waste transportation

**axerophytol**

USE vitamin a

**AXIAL RATIO**

BT1 dimensionless numbers

RT crystal structure

**AXIAL SYMMETRY**

BT1 symmetry

RT kerr field

RT rotational invariance

**AXIAL-VECTOR CURRENTS**

\*BT1 algebraic currents

RT pcac theory

RT v-a theory

RT vector currents

**AXIAL VECTOR MESONS**

INIS: 1995-08-07; ETDE: 1988-01-25

Mesons with spin and parity 1+.

UF *pseudovector mesons*

\*BT1 mesons

NT1 a1-1260 mesons

NT1 b1-1235 mesons

NT1 chi b1-9890 mesons

NT1 chi1-3510 mesons

NT1 d s-2536 mesons

NT1 d1-2420 mesons

NT1 f1-1285 mesons

NT1 f1-1420 mesons

NT1 f1-1510 mesons

NT1 h1-1170 mesons

NT1 k1-1270 mesons

NT1 k1-1400 mesons

**AXIOMATIC FIELD THEORY**

INIS: 1977-11-21; ETDE: 1978-03-08

UF *axiomatic s-matrix theory*

UF *general quantum field theory*

UF *non lagrangian quantum field theory*

\*BT1 quantum field theory

NT1 algebraic field theory

NT1 lsz theory

NT1 wightman field theory

**axiomatic s-matrix theory**

INIS: 1977-11-21; ETDE: 1978-03-08

USE axiomatic field theory

**AXIONS**

INIS: 1978-08-14; ETDE: 1978-10-19

\*BT1 goldstone bosons

**axolotl**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE salamanders

**axons**

USE nerve cells

**AZAARENES**

INIS: 1994-06-27; ETDE: 1983-02-09

UF *polycyclic nitrogen heterocycles*

\*BT1 aromatics

\*BT1 heterocyclic compounds

\*BT1 organic nitrogen compounds

NT1 acridines

NT2 acridine orange

NT2 flavines

NT3 acriflavine

NT3 proflavine

NT1 carbazoles

NT1 indoles

NT2 indigo

NT2 indocyanine green

NT2 lysergic acid

NT2 reserpine

NT2 strychnine

NT2 tryptamines

NT3 melatonin

NT3 serotonin

NT4 bufotenine

NT2 tryptophan

NT2 vinblastine

NT1 phenanthrolines

NT2 ferroin

NT2 phenanthroline-ortho

NT1 pteridines

NT2 aminopterin

NT2 folic acid

NT1 purines

NT2 adenines

NT3 kinetin

NT2 guanine

NT2 guanosine

NT2 hypoxanthine

NT2 inosine

NT2 mercaptopurine

NT2 xanthenes

NT3 caffeine

NT3 theobromine

NT3 theophylline

NT3 uric acid

NT1 quinolines

NT2 ferron

NT2 oxine

NT2 quinaldine

RT polycyclic aromatic hydrocarbons

**azaguanine**

ETDE: 1981-04-20

(Prior to April 1994, this was a valid ETDE descriptor.)

USE antimetabolites

**AZBEL-KANER RESONANCE**

A type of cyclotron resonance in high-purity metals at liquid helium temperature.

\*BT1 cyclotron resonance

RT metals

**AZEOTROPE**

RT boiling points

RT distillation

**AZERBAIJAN**

INIS: 1997-08-20; ETDE: 1993-04-08

(Until January 1993, this was indexed by USSR.)

SF *soviet union*

SF *union of soviet socialist republics*

SF *ussr*

BT1 asia

RT caspian sea

RT caucasus

**AZGIR TEST SITE**

1999-01-25

BT1 nuclear test sites

RT nuclear explosions

RT nuclear weapons

**AZIDES**

For inorganic compounds only. For organic azides, use AZIDO COMPOUNDS.

BT1 nitrogen compounds

RT azido compounds

RT hydrazoic acid

**AZIDO COMPOUNDS**

\*BT1 organic nitrogen compounds

RT azides

**azimuth**

INIS: 2000-04-12; ETDE: 1975-12-16

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE coordinates

SEE orientation

SEE space dependence

**azimuthal pinch devices (linear)**

USE linear theta pinch devices

**AZINES**

Compounds that contain a six-membered heterocyclic ring containing one or more nitrogen atoms.

\*BT1 heterocyclic compounds

\*BT1 organic nitrogen compounds

NT1 phenothiazines

NT2 chlorpromazine

NT2 methylene blue

NT1 pyrazines

NT2 phenazine

NT2 piperazines

NT1 pyridazines

NT2 phthalazines

NT3 luminol

NT1 pyridines

NT2 acridines

NT3 acridine orange

NT3 flavines

NT4 acriflavine

NT4 proflavine

NT2 bipyridines

NT2 nicotinamide

NT2 nicotine

NT2 nicotinic acid

NT2 picolines

NT3 picolinic acid

NT2 piperidines

NT3 dipyridamole

NT3 pethidine

NT3 triacetoneamine-n-oxyl

NT2 pyridine

NT2 pyridinium compounds

NT2 pyridoxal

NT2 pyridoxine

NT2 pyridoxylidene-glutamate

NT2 pyridylazonaphthol

NT2 pyridylazoresorcinol

NT2 quinolines

NT3 ferron

NT3 oxine

NT3 quinaldine

NT1 pyrimidines

NT2 alloxan

NT2 barbiturates

NT3 nembutal

NT3 phenobarbital

NT2 cytidine

NT2 cytosine

NT2 deoxycytidine

NT2 thiamine

NT2 thymidine

NT2 uracils

NT3 bromouracils

NT4 budr

NT3 chlorouracils

NT3 deoxyuridine

NT3 fluorouracils

NT4 fudr

NT3 iodouracils

NT4 iododeoxyuridine

NT3 orotic acid

NT3 thiouracil

NT3 thymine

NT3 uridine

NT1 triazines

NT2 cyanurates

NT2 melamine

## AZO COMPOUNDS

UF *cycasin*

\*BT1 organic nitrogen compounds

NT1 arsenazo

NT1 azo dyes

NT2 eriochrome dyes

NT2 evans blue

NT2 methyl orange

NT2 methyl red

NT2 toluidine blue

NT2 trypan blue

## AZO DYES

1996-10-22

UF *acid chrome dyes*

UF *beryllon*

UF *congo red*

UF *dsnadns*

UF *eriolglauicine*

\*BT1 azo compounds

BT1 dyes

NT1 eriochrome dyes

NT1 evans blue

NT1 methyl orange

NT1 methyl red

NT1 toluidine blue

NT1 trypan blue

RT diazo compounds

## AZOLES

*Compounds that contain a five-membered heterocyclic ring containing one or more nitrogen atoms.*

\*BT1 heterocyclic compounds

\*BT1 organic nitrogen compounds

NT1 carbazoles

NT1 imidazoles

NT2 allantoin

NT2 benzimidazoles

NT2 biotin

NT2 creatinine

NT2 histamine

NT2 histidine

NT2 hydantoins

NT2 metronidazole

NT2 misonidazole

NT2 urocanic acid

NT1 oxadiazoles

NT1 oxazoles

NT2 benzoxazoles

NT2 popop

NT1 pyrazoles

NT2 indazoles

NT2 pyrazolines

NT3 antipyrine

NT1 pyrroles

NT2 bilirubin

NT2 indoles

NT3 indigo

NT3 indocyanine green

NT3 lysergic acid

NT3 reserpine

NT3 strychnine

NT3 tryptamines

NT4 melatonin

NT4 serotonin

NT5 bufotenine

NT3 tryptophan

NT3 vinblastine

NT2 pyrrolidines

NT3 hydroxyproline

NT3 nicotine

NT3 proline

NT2 pyrrolidones

NT3 pvp

NT1 tetrazoles

NT2 tetrazolium

NT1 thiaziazoles

NT1 thiazoles

NT2 benzothiazoles

NT2 saccharin

NT2 thiamine

NT1 triazoles

## azolla

INIS: 1993-05-28; ETDE: 2002-06-07

USE aquatic organisms

USE ferns

## azomide

INIS: 1988-06-22; ETDE: 1988-07-15

USE hydrazoic acid

## AZORES ISLANDS

2000-04-12

BT1 islands

\*BT1 portugal

## AZOTOBACTER

\*BT1 bacteria

## AZULENE

\*BT1 hydrocarbons

## b-1235 resonances

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE b1-1235 mesons

## B ANTIQUARKS

2007-06-26

\*BT1 antiquarks

\*BT1 b quarks

## B C MESONS

1998-12-15

\*BT1 beauty mesons

\*BT1 charmed mesons

\*BT1 pseudoscalar mesons

RT quarkonium

## b centers

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

USE color centers

## B CODES

BT1 computer codes

## B MESONS

INIS: 1995-08-07; ETDE: 1984-06-29

*The 'Bottom' or 'Beauty' meson with mass approx. 5270 MeV.*

\*BT1 beauty mesons

\*BT1 pseudoscalar mesons

NT1 b minus mesons

NT1 b neutral mesons

NT2 anti-b neutral mesons

NT1 b plus mesons

## B MINUS MESONS

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 b mesons

## B NEUTRAL MESONS

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 b mesons

NT1 anti-b neutral mesons

## B PLUS MESONS

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 b mesons

## B QUARKS

INIS: 1995-09-08; ETDE: 1995-10-03

\*BT1 beauty particles

\*BT1 quarks

NT1 b antiquarks

RT bottomonium

## B S MESONS

1995-07-17

\*BT1 beauty mesons

\*BT1 pseudoscalar mesons

\*BT1 strange mesons

## B\*-5325 MESONS

INIS: 1995-08-07; ETDE: 1988-02-02

\*BT1 beauty mesons

\*BT1 vector mesons

## B1-1235 MESONS

INIS: 1987-12-21; ETDE: 1988-01-28

(Prior to December 1987 this concept was indexed by B-1235RESONANCES.)

UF *b-1235 resonances*

\*BT1 axial vector mesons

## BABCOCK AND WILCOX-DUPONT PROCESS

INIS: 2000-04-12; ETDE: 1977-05-07

*Entrained oxygen-blown coal gasification system, utilizing a design to remove bulk of slag from ash and to cool remainder by passage through a water-wall chamber above the coal feed point, is capable of operation at elevated pressures and designed to tolerate molten coal ash.*

\*BT1 coal gasification

RT entrainment

## babcock and wilcox lpr reactor

2000-04-12

USE lpr reactor

## babcock and wilcox standard reactor

1993-11-04

USE bw standard reactor

## babcock and wilcox test reactor

1993-11-04

USE bawtr reactor

## BABESIDAE

\*BT1 sporozoa

RT erythrocytes

## BABOONS

1985-12-11

(Prior to 1986 APES was used for this concept.)

\*BT1 monkeys

## BACA GEOTHERMAL FIELD

INIS: 2000-04-12; ETDE: 1981-01-09

BT1 geothermal fields

RT geothermal hot-water systems

RT new mexico

## bach-tamaid theory

1996-06-26

(Until June 1996 this was a valid descriptor.)

SEE particle structure

## BACILLUS

UF *ferrobacillus ferrooxidans*

\*BT1 bacteria

NT1 bacillus cereus

NT1 bacillus licheniformis

NT1 bacillus megaterium

NT1 bacillus subtilis

NT1 thiobacillus ferrooxidans

NT1 thiobacillus oxidans

## BACILLUS CEREUS

\*BT1 bacillus

## BACILLUS LICHENIFORMIS

INIS: 1993-07-13; ETDE: 1986-01-14

\*BT1 bacillus

RT microbial eor

**BACILLUS MEGATERIUM**

1975-12-19

\*BT1 bacillus

**BACILLUS SUBTILIS**

\*BT1 bacillus

**BACK CONTACT SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1980-06-06

\*BT1 solar cells

**BACKBENDING**

INIS: 1977-03-01; ETDE: 1977-04-12

The sudden increase of the moment of inertia of deformed nuclei at a critical angular momentum.

RT angular momentum

RT coriolis force

RT deformed nuclei

RT high spin states

RT moment of inertia

RT nuclear structure

RT rotation

RT rotational states

RT vmi model

RT yrast states

**BACKFILLING**

INIS: 1983-10-14; ETDE: 1976-02-19

RT coal mines

RT land reclamation

RT mines

RT radioactive waste disposal

RT radionuclide migration

RT stowing

RT underground disposal

RT waste-rock interactions

**backfitting**

INIS: 1979-04-27; ETDE: 2002-06-13

USE retrofitting

**BACKGROUND NOISE**

BT1 noise

RT radio noise

**BACKGROUND RADIATION**

UF terrestrial background

BT1 radiations

RT cosmic radiation

RT natural radioactivity

RT relict radiation

**backlund transformation**

INIS: 1984-04-04; ETDE: 2002-06-13

USE baecklund transformation

**BACKSCATTERING**

BT1 scattering

RT albedo-neutron dosimeters

RT angular distribution

RT reflection

RT rutherford backscattering

RT spectroscopy

**BACKWARD WAVE TUBES**

\*BT1 microwave tubes

**bacon**

USE meat

**BACTERIA**

1997-06-17

UF cells (bacterial)

BT1 microorganisms

NT1 actinomyces

NT2 frankia

NT1 aerobacter

NT1 aeromonas

NT1 azotobacter

NT1 bacillus

NT2 bacillus cereus

NT2 bacillus licheniformis

NT2 bacillus megaterium

NT2 bacillus subtilis

NT2 thiobacillus ferrooxidans

NT2 thiobacillus oxidans

NT1 brucella

NT1 clostridium

NT2 clostridium acetobutylicum

NT2 clostridium botulinum

NT2 clostridium butyricum

NT2 clostridium perfringens

NT2 clostridium thermocellum

NT2 clostridium thermosaccharolyticum

NT1 coliforms

NT1 corynebacterium fascians

NT1 corynebacterium parvum

NT1 escherichia coli

NT1 haemophilus

NT1 klebsiella

NT1 lactobacillus

NT1 legionella anisa

NT1 legionella pneumophila

NT1 meningococcus

NT1 methanogenic bacteria

NT2 clostridium acetobutylicum

NT1 methanotrophic bacteria

NT1 micrococcus

NT2 micrococcus luteus

NT2 micrococcus lysodeicticus

NT2 micrococcus radiodurans

NT1 mycobacterium

NT2 mycobacterium tuberculosis

NT1 nocardia

NT1 photosynthetic bacteria

NT2 rhodospseudomonas

NT2 rhodospirillum

NT1 pneumococcus

NT1 proteus

NT1 pseudomonas

NT1 rhizobium

NT1 salmonella

NT2 salmonella typhimurium

NT1 serratia

NT1 shigella

NT1 spirochaetes

NT1 staphylococcus

NT1 streptococcus

NT1 streptomyces

NT1 sulfate-reducing bacteria

NT2 desulfovibrio

NT1 sulfur-oxidizing bacteria

NT2 rhodococcus

NT2 thiobacillus ferrooxidans

NT2 thiobacillus oxidans

NT1 thermoactinomyces

NT1 zymomonas mobilis

RT bacterial diseases

RT bacterial spores

RT bacteriophages

RT disinfectants

RT endotoxins

RT germ-free animals

RT germicides

RT host-cell reactivation

RT infectivity

RT mycoplasma

RT nitrogen fixation

RT plankton

RT toxins

RT vaccines

**BACTERIAL DISEASES**

INIS: 1996-07-18; ETDE: 1981-01-12

UF paratyphoid

\*BT1 infectious diseases

NT1 cholera

NT1 diphtheria

NT1 gonorrhoea

NT1 leprosy

NT1 syphilis

NT1 tetanus

NT1 tuberculosis

NT1 typhoid

RT antibiotics

RT bacteria

RT legionella anisa

RT legionella pneumophila

**BACTERIAL SPORES**

BT1 spores

RT bacteria

RT preservation

RT sterilization

**bactericides**

INIS: 2000-04-12; ETDE: 1980-03-04

USE germicides

**BACTERIOPHAGES**

1997-06-17

UF phages

\*BT1 viruses

RT bacteria

RT cosmids

RT host-cell reactivation

RT plaque formation

**BADDELEYITE**

\*BT1 oxide minerals

\*BT1 radioactive minerals

RT caldasite

RT hafnium oxides

RT zirconium oxides

**BAECKLUND TRANSFORMATION**

1980-05-14

UF backlund transformation

BT1 transformations

RT nonlinear problems

RT solitons

**baer walls**

INIS: 2000-04-12; ETDE: 1979-02-27

USE drum walls

**BAFFLED TUBES**

BT1 tubes

RT baffles

**BAFFLES**

INIS: 1985-12-10; ETDE: 1976-11-17

Plates that regulate the flow of a fluid, e.g. in heat exchangers.

\*BT1 flow regulators

RT baffled tubes

RT diffusers

RT fluid flow

**BAG MODEL**

INIS: 1976-03-02; ETDE: 1975-11-28

A relativistic particle model in which some hadronic fields are confined within a finite region of space by the action of a uniform phenomenological external pressure.

UF quark confinement

\*BT1 extended particle model

\*BT1 quark model

RT quantum chromodynamics

**BAGASSE**

INIS: 1999-07-07; ETDE: 1976-01-23

\*BT1 agricultural wastes

RT cellulose

**baghdad wwr-s reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE irt-baghdad reactor

**BAGHOUSES**

INIS: 1991-09-19; ETDE: 1978-03-03  
*A structure for holding bag filters for removing suspended dusts and fumes from airstreams.*

- \*BT1 pollution control equipment
- RT air pollution control
- RT fabric filters

**BAHAMA ISLANDS**

- BT1 developing countries
- \*BT1 west indies
- RT atlantic ocean

**BAHRAIN**

INIS: 1982-12-03; ETDE: 1976-10-13

- BT1 arab countries
- BT1 asia
- BT1 developing countries
- BT1 islands
- BT1 middle east
- RT oapec

**baillie process**

INIS: 2000-04-12; ETDE: 1976-07-07  
*Fluidized-bed pyrolysis process using air for conversion of municipal solid waste into intermediate btu gas.*

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE waste processing

**BAILLY-1 REACTOR**

*Northern Indiana Public Service Co., Baillytown, Indiana, USA. Canceled in 1981 before construction began.*

- \*BT1 bwr type reactors

**BAINITE**

- RT martensite
- RT steels

**BAKELITE**

- \*BT1 plastics
- RT formaldehyde
- RT phenols
- RT resins

**BAKING**

- BT1 heating

**baking (food)**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE food processing

**bal (british anti-lewisite)**

ETDE: 2005-02-01

(Prior to January 2005 BAL was a valid descriptor.)

- USE dimercaprol

**BALAKOVO-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

- \*BT1 wwer type reactors

**BALAKOVO-2 REACTOR**

INIS: 1986-12-09; ETDE: 1987-02-24

- \*BT1 wwer type reactors

**BALAKOVO-3 REACTOR**

1998-10-21

- \*BT1 wwer type reactors

**BALAKOVO-4 REACTOR**

2002-08-13

- \*BT1 wwer type reactors

**balance (energy)**

- USE energy balance

**balance (mass)**

- USE mass balance

**balance of power**

INIS: 2000-04-12; ETDE: 1986-02-03

(Prior to February 1997 this was a valid ETDE descriptor.)

- USE international relations

**BALANCES**

- \*BT1 weight indicators
- NT1 microbalances

**balances (magnetic)**

- USE magnetic balances

**balescu theory**

- USE prigogine theorem

**BALL BEARINGS**

- BT1 bearings

**BALL LIGHTNING**

- \*BT1 lightning

**BALLASTS**

INIS: 2000-04-12; ETDE: 1979-02-23

*Devices that limit the current of fluorescent or mercury lamps to the required value for proper operation.*

- RT fluorescent lamps
- RT lighting systems

**BALLISTIC MISSILE DEFENSE**

INIS: 1994-09-08; ETDE: 1984-11-29

UF strategic defense initiative

- BT1 national defense
- RT directed-energy weapons
- RT national security
- RT nuclear weapons
- RT space weapons

**BALLOONING INSTABILITY**

INIS: 1979-05-28; ETDE: 1979-08-07

- \*BT1 plasma macroinstabilities

**BALLOONS**

1999-01-25

- BT1 aircraft

**BALMER LINES**

*Includes all aspects of the transitions associated with balmer lines.*

- UF balmer spectra
- UF h-alpha line
- UF h-beta line
- UF h-gamma line
- RT hydrogen
- RT rydberg correction
- RT spectra

**balmer spectra**

- USE balmer lines

**BALNEOLOGY**

*The science of the healing qualities of baths, esp. with natural mineral waters.*

- BT1 medicine
- RT therapy
- RT water

**BALTIC SEA**

- \*BT1 seas

**BALTIMORE CANYON**

INIS: 2000-04-12; ETDE: 1978-12-11

*Depression off Middle Atlantic States.*

- \*BT1 atlantic ocean

**bamag process**

INIS: 2000-04-12; ETDE: 1977-04-12

*German process uses a proprietary catalyst to reduce sulfur dioxide to elemental sulfur using a medium btu town gas derived from a coking process and consisting of hydrogen, methane and carbon monoxide.*

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE waste processing

**BAMBOO**

INIS: 1991-12-16; ETDE: 1985-11-19

- \*BT1 gramineae

**bambp**

1996-06-26

*Butyl-alpha-methylbenzylphenol.*

(Until June 1996 this was a valid descriptor.)

- USE phenols

**BANACH SPACE**

- \*BT1 mathematical space

- NT1 hilbert space
- RT vectors

**BANANA PLANTS**

INIS: 1975-12-09; ETDE: 1976-01-26

- \*BT1 liliopsida

- RT bananas
- RT fruit trees

**BANANA REGIME**

*A specific mechanism of particle trapping in toroidal devices.*

- BT1 trapping
- RT neoclassical transport theory
- RT stellarators
- RT tokamak devices
- RT toroidal pinch devices
- RT trapped-particle instability

**BANANAS**

- \*BT1 fruits
- RT banana plants
- RT fruit trees

**BAND THEORY**

- RT brillouin zones
- RT electronic structure
- RT energy gap
- RT energy-level transitions
- RT fermi level
- RT graded band gaps
- RT hubbard model
- RT wigner-seitz method

**BANDING TECHNIQUES**

INIS: 1978-04-21; ETDE: 1978-07-06

*Techniques for making chromosomal aberrations visible.*

- BT1 cytological techniques
- RT biological localization
- RT chromosomal aberrations
- RT chromosomes
- RT genetic mapping
- RT human chromosomes
- RT stains

**baneberry event**

1994-10-13

*A test made during OPERATION EMERY.*

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**BANGKOK TREATY**

1999-01-26

*Treaty for the prohibition of nuclear weapons in South-East Asia.*

- BT1 treaties



*RT* arms control  
*RT* nuclear weapons

**BANGLADESH**

*UF* east pakistan  
*UF* pakistan (east)  
 BT1 asia  
 BT1 developing countries  
*RT* ganga river

**BANGLADESH ORGANIZATIONS**

*INIS: 1983-07-15; ETDE: 1983-09-15*  
 BT1 national organizations

**bank accounts**

*INIS: 2000-04-12; ETDE: 1983-05-21*  
 SEE financing

**banks**

*INIS: 2000-04-12; ETDE: 1981-01-09*  
 USE commercial buildings

**banon event**

*INIS: 2000-04-12; ETDE: 1977-06-21*  
 USE anvil project

**BARBADOS**

*INIS: 1992-06-12; ETDE: 1979-12-10*  
 \*BT1 lesser antilles

**BARBITURATES**

1996-10-23  
 (Prior to August 1996 AMYTAL was a valid ETDE descriptor.)

*UF* amobarbital  
*UF* amytal  
*UF* barbituric acid  
*UF* pentothal  
*UF* thiopental  
 \*BT1 anesthetics  
 \*BT1 hypnotics and sedatives  
 \*BT1 organic oxygen compounds  
 \*BT1 pyrimidines  
 NT1 nembutal  
 NT1 phenobarbital

**barbituric acid**

USE barbiturates

**BARC**

*UF* bhabha atomic research center  
 \*BT1 indian organizations

**barcelona argonaut reactor**

USE argos reactor

**bardeen-cooper-schrieffer theory**

USE bcs theory

**BARGES**

*INIS: 1992-05-08; ETDE: 1977-01-10*  
*RT* navigation  
*RT* ships  
*RT* transport

**BARITE**

*A white, yellow, or colorless orthorhombic mineral.*  
 \*BT1 sulfate minerals  
*RT* barium sulfates

**BARIUM**

\*BT1 alkaline earth metals

**BARIUM 114**

1995-06-29  
 \*BT1 barium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 carbon 12 decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

**BARIUM 115**

1995-06-29  
 \*BT1 barium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

**BARIUM 116**

1995-06-29  
 \*BT1 barium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

**BARIUM 117**

*INIS: 1977-06-14; ETDE: 1976-01-07*  
 \*BT1 barium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**BARIUM 118**

1995-06-29  
 \*BT1 barium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**BARIUM 119**

\*BT1 barium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**BARIUM 120**

\*BT1 barium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**BARIUM 121**

\*BT1 barium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**BARIUM 122**

\*BT1 barium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**BARIUM 123**

\*BT1 barium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**BARIUM 124**

\*BT1 barium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**BARIUM 125**

\*BT1 barium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**BARIUM 126**

\*BT1 barium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei

**BARIUM 127**

\*BT1 barium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 seconds living radioisotopes

**BARIUM 127 TARGET**

*INIS: 1992-09-22; ETDE: 1977-05-07*  
 BT1 targets

**BARIUM 128**

\*BT1 barium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei

**BARIUM 129**

\*BT1 barium isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei

**BARIUM 130**

\*BT1 barium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

**BARIUM 130 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**BARIUM 131**

\*BT1 barium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes

**BARIUM 132**

\*BT1 barium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

**BARIUM 133**

\*BT1 barium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 years living radioisotopes

**BARIUM 134**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**BARIUM 134 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**BARIUM 135**

- \*BT1 barium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes

**BARIUM 135 TARGET**

*INIS: 1977-04-07; ETDE: 1977-03-04*

- BT1 targets

**BARIUM 136**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 stable isotopes

**BARIUM 136 TARGET**

*INIS: 1976-02-11; ETDE: 1976-07-12*

- BT1 targets

**BARIUM 137**

- \*BT1 barium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 stable isotopes

**BARIUM 137 TARGET**

*INIS: 1977-04-07; ETDE: 1977-06-02*

- BT1 targets

**BARIUM 138**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 stable isotopes

**BARIUM 138 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**BARIUM 139**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**BARIUM 139 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*

- BT1 targets

**BARIUM 140**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**BARIUM 141**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**BARIUM 142**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**BARIUM 143**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 144**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 145**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 146**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 147**

*INIS: 1977-06-13; ETDE: 1977-10-19*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 148**

*INIS: 1977-06-13; ETDE: 1976-03-25*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 149**

*1986-01-21*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 150**

*2007-09-26*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 151**

*2007-09-26*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**BARIUM 152**

*2007-09-26*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**BARIUM 153**

*2007-09-26*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**BARIUM ADDITIONS**

*Alloys containing not more than 1% Ba are listed here.*

- \*BT1 barium alloys

**BARIUM ALLOYS**

*Alloys containing more than 1% Ba.*

- BT1 alloys
- NT1 barium additions
- NT1 barium base alloys

**BARIUM BASE ALLOYS**

- \*BT1 barium alloys

**BARIUM BORIDES**

- \*BT1 barium compounds
- \*BT1 borides

**BARIUM BROMIDES**

- \*BT1 barium compounds
- \*BT1 bromides

**BARIUM CARBIDES**

- \*BT1 barium compounds
- \*BT1 carbides

**BARIUM CARBONATES**

- \*BT1 barium compounds
- \*BT1 carbonates

**BARIUM CHLORIDES**

- \*BT1 barium compounds
- \*BT1 chlorides

**BARIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**BARIUM COMPOUNDS**

- BT1 alkaline earth metal compounds
- NT1 barium borides
- NT1 barium bromides
- NT1 barium carbides
- NT1 barium carbonates
- NT1 barium chlorides
- NT1 barium fluorides
- NT1 barium hydrides
- NT1 barium hydroxides
- NT1 barium iodides
- NT1 barium nitrates
- NT1 barium nitrides
- NT1 barium oxides
- NT1 barium perchlorates
- NT1 barium phosphates
- NT1 barium silicates
- NT1 barium sulfates
- NT1 barium sulfides
- NT1 barium tungstates

**BARIUM FLUORIDES**

- \*BT1 barium compounds
- \*BT1 fluorides

**BARIUM HYDRIDES**

- \*BT1 barium compounds
- \*BT1 hydrides

**BARIUM HYDROXIDES**

- \*BT1 barium compounds
- \*BT1 hydroxides

**BARIUM IODIDES**

- \*BT1 barium compounds
- \*BT1 iodides

**BARIUM IONS**

- \*BT1 ions

**BARIUM ISOTOPES**

1999-02-01

- \*BT1 alkaline earth isotopes
- NT1 barium 114
- NT1 barium 115
- NT1 barium 116
- NT1 barium 117
- NT1 barium 118
- NT1 barium 119
- NT1 barium 120
- NT1 barium 121
- NT1 barium 122
- NT1 barium 123
- NT1 barium 124
- NT1 barium 125
- NT1 barium 126
- NT1 barium 127
- NT1 barium 128
- NT1 barium 129
- NT1 barium 130
- NT1 barium 131
- NT1 barium 132
- NT1 barium 133
- NT1 barium 134
- NT1 barium 135
- NT1 barium 136
- NT1 barium 137
- NT1 barium 138
- NT1 barium 139
- NT1 barium 140
- NT1 barium 141
- NT1 barium 142
- NT1 barium 143
- NT1 barium 144
- NT1 barium 145
- NT1 barium 146
- NT1 barium 147
- NT1 barium 148
- NT1 barium 149
- NT1 barium 150
- NT1 barium 151
- NT1 barium 152
- NT1 barium 153

**BARIUM NITRATES**

- \*BT1 barium compounds
- \*BT1 nitrates

**BARIUM NITRIDES**

- \*BT1 barium compounds
- \*BT1 nitrides

**BARIUM OXIDES**

- \*BT1 barium compounds
- \*BT1 oxides
- RT bilietite
- RT heinrichite
- RT hollandite
- RT oxide minerals

**BARIUM PERCHLORATES**

INIS: 1983-10-14; ETDE: 1975-11-11

- \*BT1 barium compounds
- \*BT1 perchlorates

**BARIUM PHOSPHATES**

- \*BT1 barium compounds
- \*BT1 phosphates
- RT phosphate minerals

**BARIUM SILICATES**

- \*BT1 barium compounds
- \*BT1 silicates

**BARIUM SULFATES**

1996-11-13

- \*BT1 barium compounds
- \*BT1 sulfates
- RT barite
- RT sulfate minerals

**BARIUM SULFIDES**

- \*BT1 barium compounds
- \*BT1 sulfides

**BARIUM TUNGSTATES**

INIS: 1978-02-23; ETDE: 1976-03-11

- \*BT1 barium compounds
- \*BT1 tungstates

**BARK**

INIS: 1986-07-09; ETDE: 1985-12-11

- BT1 plant tissues
- RT cork
- RT lignin
- RT plant stems
- RT solid fuels
- RT trees
- RT wood wastes

**BARLEY**

- UF hordeum
- \*BT1 cereals

**BARN REACTOR**

Institute for Atomic Sciences in Agriculture, Wageningen, Netherlands.

- UF wageningen barn reactor
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors

**BARNWELL FUEL PROCESSING PLANT**

- \*BT1 fuel reprocessing plants

**BAROMETERS**

- \*BT1 pressure gages

**barrier layer**

INIS: 2000-04-12; ETDE: 1980-03-04

- SEE depletion layer

**barriers**

1996-04-18

- SEE diffusion barriers
- SEE ventilation barriers

**BARSEBAECK-1 REACTOR**

Barsebaeck, Malmo, Sweden.

- UF sydsvenska kraft ab reactor 1
- \*BT1 bwr type reactors

**BARSEBAECK-2 REACTOR**

INIS: 1978-04-21; ETDE: 1978-07-06

Barsebaeck, Malmo, Sweden.

- UF sydsvenska kraft ab reactor 2
- \*BT1 bwr type reactors

**BARSTOW SOLAR PILOT PLANT**

INIS: 2000-04-12; ETDE: 1980-01-24

10-mw solar central receiver pilot plant at Barstow, California.

- UF solar one power plant
- \*BT1 pilot plants
- \*BT1 tower focus power plants

**BARTLESVILLE ENERGY TECHNOLOGY CENTER**

INIS: 2000-04-12; ETDE: 1978-10-23

- \*BT1 us doe

**BARTON-1 REACTOR**

Alabama Power and Light, USA. Canceled in 1977 before construction began.

- \*BT1 bwr type reactors

**BARTON-2 REACTOR**

Alabama Power and Light, USA. Canceled in 1977 before construction began.

- \*BT1 bwr type reactors

**BARTON-3 REACTOR**

Alabama Power and Light, USA. Canceled in 1975 before construction began.

- \*BT1 bwr type reactors

**BARTON-4 REACTOR**

Alabama Power and Light, USA. Canceled in 1975 before construction began.

- \*BT1 bwr type reactors

**BARYON-BARYON INTERACTIONS**

(From January 1975 till May 1996 NUCLEON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

- UF nucleon-deuteron interactions
- \*BT1 hadron-hadron interactions
- NT1 hyperon-hyperon interactions
- NT1 nucleon-antinucleon interactions
- NT2 antiproton-neutron interactions
- NT2 neutron-antineutron interactions
- NT2 proton-antineutron interactions
- NT2 proton-antiproton interactions
- NT1 nucleon-hyperon interactions
- NT1 nucleon-nucleon interactions
- NT2 neutron-neutron interactions
- NT2 proton-nucleon interactions
- NT3 proton-neutron interactions
- NT3 proton-proton interactions

**BARYON DECUPLETS**

- \*BT1 particle multiplets

**BARYON-EXCHANGE MODELS**

- \*BT1 peripheral models

**BARYON NUMBER**

- RT baryons
- RT gauge invariance
- RT neutron oscillation

**baryon number 2 resonances**

INIS: 2000-04-12; ETDE: 1979-02-27

- USE dibaryons

**BARYON OCTETS**

- \*BT1 particle multiplets
- RT octet model

**BARYON REACTIONS**

- \*BT1 hadron reactions
- NT1 hyperon reactions
- NT1 nucleon reactions
- NT2 antinucleon reactions
- NT3 antineutron reactions
- NT3 antiproton reactions
- NT2 neutron reactions
- NT3 fast fission
- NT3 thermal fission
- NT2 proton reactions

**baryon resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

- USE baryons

**BARYON SPECTROSCOPY**

INIS: 1979-01-18; ETDE: 1979-02-23

- BT1 spectroscopy

**BARYONIUM**

INIS: 1978-08-14; ETDE: 1978-04-06

Baryonium states, narrow resonances near  $p$ - $\bar{p}$  threshold, are mesons that have quantum numbers of a 2 quark-2 antiquark system and couple predominantly to baryon-antibaryon systems.

- \*BT1 mesons
- RT baryons
- RT protonium
- RT quarkonium

**BARYONS**

UF *baryon resonances*  
 UF *d\* plus resonances*  
 UF *d\* zero resonances*  
 UF *d\* resonances*  
 UF *y\* resonances*  
 SF *d\* effect*  
 SF *d\* phenomenon*  
 BT1 fermions  
 \*BT1 hadrons  
 NT1 antibaryons  
 NT2 antihyperons  
 NT3 antilambda particles  
 NT3 antiomega particles  
 NT3 antisigma particles  
 NT3 antixi particles  
 NT2 antineutrons  
 NT3 antineutrons  
 NT3 antiprotons  
 NT1 beauty baryons  
 NT2 lambda b neutral baryons  
 NT1 charmed baryons  
 NT2 lambda c-2625 baryons  
 NT2 lambda c plus baryons  
 NT2 omega c neutral baryons  
 NT2 sigma c-2455 baryons  
 NT2 xi c neutral baryons  
 NT2 xi c plus baryons  
 NT1 dibaryons  
 NT2 dineutrons  
 NT2 diprotons  
 NT2 lambda-n-2130 dibaryons  
 NT2 nn-2170 dibaryons  
 NT2 nn-2250 dibaryons  
 NT1 hyperons  
 NT2 antihyperons  
 NT3 antilambda particles  
 NT3 antiomega particles  
 NT3 antisigma particles  
 NT3 antixi particles  
 NT2 lambda baryons  
 NT3 lambda-1405 baryons  
 NT3 lambda-1520 baryons  
 NT3 lambda-1600 baryons  
 NT3 lambda-1670 baryons  
 NT3 lambda-1690 baryons  
 NT3 lambda-1800 baryons  
 NT3 lambda-1810 baryons  
 NT3 lambda-1820 baryons  
 NT3 lambda-1830 baryons  
 NT3 lambda-1890 baryons  
 NT3 lambda-2100 baryons  
 NT3 lambda-2110 baryons  
 NT3 lambda particles  
 NT4 antilambda particles  
 NT2 lambda-n-2130 dibaryons  
 NT2 omega baryons  
 NT3 omega-2250 baryons  
 NT3 omega particles  
 NT4 antiomega particles  
 NT4 omega minus particles  
 NT2 sigma baryons  
 NT3 sigma-1385 baryons  
 NT3 sigma-1660 baryons  
 NT3 sigma-1670 baryons  
 NT3 sigma-1750 baryons  
 NT3 sigma-1770 baryons  
 NT3 sigma-1775 baryons  
 NT3 sigma-1915 baryons  
 NT3 sigma-1940 baryons  
 NT3 sigma-2030 baryons  
 NT3 sigma-2455 baryons  
 NT3 sigma particles  
 NT4 antisigma particles  
 NT4 sigma minus particles  
 NT4 sigma neutral particles  
 NT4 sigma plus particles  
 NT2 xi baryons  
 NT3 xi-1530 baryons

NT3 xi-1690 baryons  
 NT3 xi-1820 baryons  
 NT3 xi-1950 baryons  
 NT3 xi-2030 baryons  
 NT3 xi-2250 baryons  
 NT3 xi-2500 baryons  
 NT3 xi particles  
 NT4 antixi particles  
 NT4 xi minus particles  
 NT4 xi neutral particles  
 NT2 z\*baryons  
 NT1 n\*baryons  
 NT2 delta baryons  
 NT3 delta-1232 baryons  
 NT3 delta-1600 baryons  
 NT3 delta-1620 baryons  
 NT3 delta-1700 baryons  
 NT3 delta-1900 baryons  
 NT3 delta-1905 baryons  
 NT3 delta-1910 baryons  
 NT3 delta-1920 baryons  
 NT3 delta-1930 baryons  
 NT3 delta-1950 baryons  
 NT3 delta-2000 baryons  
 NT3 delta-2150 baryons  
 NT3 delta-2200 baryons  
 NT3 delta-2400 baryons  
 NT3 delta-2420 baryons  
 NT3 delta-3000 baryons  
 NT2 n baryons  
 NT3 n-1440 baryons  
 NT3 n-1520 baryons  
 NT3 n-1535 baryons  
 NT3 n-1650 baryons  
 NT3 n-1675 baryons  
 NT3 n-1680 baryons  
 NT3 n-1700 baryons  
 NT3 n-1710 baryons  
 NT3 n-1720 baryons  
 NT3 n-1960 baryons  
 NT3 n-1990 baryons  
 NT3 n-2000 baryons  
 NT3 n-2080 baryons  
 NT3 n-2100 baryons  
 NT3 n-2190 baryons  
 NT3 n-2250 baryons  
 NT3 n-3000 baryons  
 NT1 nucleons  
 NT2 antineutrons  
 NT3 antineutrons  
 NT3 antiprotons  
 NT2 neutrons  
 NT3 antineutrons  
 NT3 beta-delayed neutrons  
 NT3 cold neutrons  
 NT4 ultracold neutrons  
 NT3 cosmic neutrons  
 NT3 epithermal neutrons  
 NT3 fast neutrons  
 NT3 fission neutrons  
 NT4 delayed neutrons  
 NT4 prompt neutrons  
 NT3 intermediate neutrons  
 NT3 photoneutrons  
 NT3 pile neutrons  
 NT3 polyneutrons  
 NT4 dineutrons  
 NT4 tetraneutrons  
 NT4 trineutrons  
 NT3 resonance neutrons  
 NT3 slow neutrons  
 NT3 solar neutrons  
 NT3 thermal neutrons  
 NT2 photonucleons  
 NT3 photoneutrons  
 NT3 photoprotons  
 NT2 protons  
 NT3 antiprotons  
 NT3 cosmic protons

NT3 delayed protons  
 NT3 diprotons  
 NT3 photoprotons  
 NT3 prompt protons  
 NT3 solar protons  
 NT3 trapped protons  
 RT baryon number  
 RT baryonium

**BASAL METABOLISM**

BT1 metabolism

**BASALT**

\*BT1 volcanic rocks  
 NT1 diabases  
 RT feldspars  
 RT nepheline basalts  
 RT olivine

**BASEBALL DEVICES**

\*BT1 open plasma devices

**BASEBALL SEAM****CONFIGURATIONS**

\*BT1 open configurations

**BASEBOARD HEATING**

INIS: 2000-04-12; ETDE: 1977-09-19

\*BT1 space heating  
 RT electric heating

**basedow's disease**

USE hyperthyroidism

**BASILINE ECOLOGY**

INIS: 1982-12-03; ETDE: 1977-04-12

*The ecological situation or studies of that situation which exists at a site or geographical region before some development is made in the area; it provides a basis for evaluating impact of the development.*

BT1 ecology  
 RT geographic information systems  
 RT site characterization  
 RT species diversity

**BASEMENT ROCK**

INIS: 2000-01-21; ETDE: 1981-03-16

*Metamorphic or igneous rock underlying the sedimentary sequence.*

\*BT1 geologic strata  
 RT igneous rocks  
 RT metamorphic rocks  
 RT rocks

**BASEMENTS**

INIS: 1992-08-25; ETDE: 1984-07-20

*The part of a building that is wholly or partly below ground level.*

UF cellars  
 RT buildings  
 RT floors  
 RT foundations

**BASES**

NT1 coal tar bases  
 NT1 lewis bases  
 NT1 shale tar bases  
 RT acid neutralizing capacity  
 RT anhydrides  
 RT hydroxides  
 RT ph value

**BASF-1 REACTOR**

UF *basf-industriekernkraftwerk reaktor 1*  
 \*BT1 pwr type reactors

**BASF-2 REACTOR**

UF *basf-industriekernkraftwerk reaktor 2*  
 \*BT1 pwr type reactors

**basf-industriekernkraftwerk reaktor 1**

1999-03-23

USE basf-1 reactor

**basf-industriekernkraftwerk reaktor 2**

1993-11-04

USE basf-2 reactor

**BASIC**

INIS: 1979-01-18; ETDE: 1975-09-11

BT1 programming languages

**BASIC INTERACTIONS**

1999-03-23

BT1 interactions

NT1 electromagnetic interactions

NT2 compton effect

NT2 coulomb scattering

NT2 electroproduction

NT2 photon-hadron interactions

NT3 photon-baryon interactions

NT4 photon-hyperon interactions

NT4 photon-nucleon interactions

NT5 photon-neutron interactions

NT5 photon-proton interactions

NT3 photon-meson interactions

NT2 photon-photon interactions

NT2 photoproduction

NT3 primakoff effect

NT2 umklapp processes

NT1 gravitational interactions

NT1 strong interactions

NT2 charge-exchange interactions

NT2 peripheral collisions

NT1 weak interactions

NT2 fermi interactions

NT2 leptonic decay

RT charged-current interactions

RT conservation laws

RT invariance principles

RT neutral-current interactions

RT potentials

RT unified-field theories

**basins (sedimentary)**

INIS: 1984-04-04; ETDE: 2002-06-13

USE sedimentary basins

**BASOPHILS**

\*BT1 leukocytes

**basophils (connective tissue)**

USE mast cells

**bass strait**

INIS: 2000-04-12; ETDE: 1977-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE australia

USE seas

**BASSETITE**

2000-04-12

\*BT1 uranium minerals

**BASTNAESITE**

\*BT1 oxide minerals

\*BT1 thorium minerals

RT thorium oxides

**bataan philippine power plant**

INIS: 1983-12-01; ETDE: 1984-01-27

USE pnp-1 reactor

**BATCH CULTURE**

INIS: 1997-06-19; ETDE: 1978-06-14

RT aerobic digestion

RT anaerobic digestion

RT continuous culture

RT culture media

RT fermentation

RT semibatch culture

**BATCH LOADING**

BT1 reactor fueling

**bates linac mit**

INIS: 1977-11-21; ETDE: 1978-03-08

USE mit bates linac

**BATHYMETRY**

INIS: 1992-06-05; ETDE: 1978-07-06

*The measurement of ocean depths and the charting of the topography of the ocean floor.*

RT geophysics

RT oceanography

RT seas

**BATS**

1993-04-29

\*BT1 mammals

**battelle coal-cleaning process**

INIS: 2000-04-12; ETDE: 1975-09-11

USE battelle hydrothermal coal process

**BATTELLE COLUMBUS****LABORATORY**

INIS: 1977-09-06; ETDE: 1976-11-17

\*BT1 us edra

RT ohio

**BATTELLE HYDROTHERMAL****COAL PROCESS**

INIS: 2000-04-12; ETDE: 1975-09-11

*A closed-loop leaching process for removal of up to 99% pyritics and 70% organics to produce solid fuel.*UF *battelle coal-cleaning process*

\*BT1 desulfurization

**BATTELLE PACIFIC NORTHWEST****LABORATORIES**

INIS: 1976-10-07; ETDE: 1976-07-07

UF *pacific northwest laboratories*UF *pnl*

\*BT1 us doe

\*BT1 us edra

RT hanford reservation

RT hapo

**battelle research reactor**

USE brr reactor

**batteries (electric)**

USE electric batteries

**batteries (isotopic)**

USE radioisotope batteries

**BATTERY CHARGE STATE**

1993-02-04

(Prior to February 1993, this concept in ETDE was indexed to CHARGE STATE.)

UF *charge state (batteries)*

RT charged particles

RT electric batteries

RT electric charges

RT ions

**BATTERY CHARGERS**

1992-07-23

\*BT1 electrical equipment

NT1 solar battery chargers

RT battery charging

**BATTERY CHARGING**

1999-08-19

RT battery chargers

**BATTERY PASTE**

INIS: 2000-04-12; ETDE: 1976-08-04

RT electric batteries

RT electrodes

RT grids

**BATTERY SEPARATORS**

2000-04-12

RT electric batteries

**batyl alcohol**

1996-06-26

*Also known as octadecyl glyceryl ether-alpha.* (Until June 1996 this was a valid descriptor.)

USE alcohols

USE ethers

**BAUXITE***A ferruginous aluminium hydroxide.*

\*BT1 aluminium ores

RT aluminium hydroxides

**BAWTR REACTOR***Babcock and Wilcox, Lynchburg Research Center, Lynchburg, Virginia, USA. Shut down in 1971.*UF *babcock and wilcox test reactor*

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 test reactors

\*BT1 thermal reactors

**BAY OF BISCAY**

INIS: 1985-07-23; ETDE: 1981-11-10

UF *biscay bay (france, spain)*

\*BT1 atlantic ocean

\*BT1 bays

RT france

RT spain

**BAY OF FUNDY**

1991-09-19

*This bay is presently being considered as the site of a sizeable tidal power plant.*

\*BT1 atlantic ocean

\*BT1 bays

RT canada

**BAYARD-ALPERT GAGES**

\*BT1 ionization gages

**bayleyite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE carbonate minerals

USE uranium minerals

**BAYS**

1997-06-17

\*BT1 coastal waters

NT1 bay of biscay

NT1 bay of fundy

NT1 biscayne bay

NT1 chesapeake bay

NT1 delaware bay

NT1 galveston bay

NT1 matagorda bay

NT1 onslow bay

NT1 prudhoe bay

NT1 sequim bay

**bays (magnetic)**

INIS: 1984-04-04; ETDE: 2002-06-13

USE magnetic bays

**BBGKY EQUATION**UF *bbgky hierarchy*UF *bbgky theory*UF *bogolyubov theory*UF *born-bogolyubov-green-kirkwood-yvon*

\*BT1 differential equations

RT statistical mechanics

**bbgky hierarchy**

USE bbgky equation

**bbgky theory**

USE bbgky equation

**BCC LATTICES**

UF *body centered cubic*

\*BT1 cubic lattices

**BCL PROCESS**

INIS: 2000-04-12; ETDE: 1985-10-10

*A two-stage hydrogenation process in which the primary hydrogenation and the secondary hydrogenation processes are combined with the new slurry dewatering and the deashing and preasphaltene removal processes.*

UF *brown coal liquefaction process*

\*BT1 coal liquefaction

**BCOCLMCNM**

*Brussels Convention on Civil Liability for Maritime Carriage of Nuclear Materials.*

UF *brussels conv liability for maritime carriage nuc mater 1971*

UF *liability conv maritime carriage nuclear materials*

UF *marit car liab conv bruss 1971*

UF *maritime carriage liability conv brussels 1971*

\*BT1 international agreements

RT civil liability

**BCOLONS**

*Brussels Convention on Liability for Operation of Nuclear Ships.*

UF *brussels conv liability for operation of nuclear ships*

UF *liability convention on operation of nuclear ships*

UF *nuclear ship operation liability convention, brussels*

\*BT1 international agreements

RT civil liability

RT liabilities

RT nuclear ship visits

RT nuclear ships

**bcr process**

INIS: 2000-04-12; ETDE: 1977-04-12

USE coal gasification

**BCS THEORY**

UF *bardeen-cooper-schrieffer theory*

RT superconductivity

**BCSTPC**

*Brussels Convention - supplement to Paris Convention on Third Party Liability.*

UF *brussels conv-suppl to paris conv on third party liability*

UF *liability conv on third party, brussels*

UF *third party liability convention, brussels*

\*BT1 international agreements

RT civil liability

RT pcotpl

**BEACON PROCESS**

INIS: 2000-04-12; ETDE: 1981-04-17

*The beacon process converts low to medium btu gas to a methane-rich high btu gas by two main reactions. In the presence of a catalyst, carbon is deposited by shifting carbon monoxide to carbon dioxide. The deposited carbon and catalyst are active for hydrogenation to methane.*

\*BT1 coal gasification

RT methanation

RT synthesis gas

**BEAD WALLS**

INIS: 2000-04-12; ETDE: 1979-02-27

\*BT1 passive solar cooling systems

\*BT1 passive solar heating systems

BT1 walls

RT thermal insulation

RT windows

**BEAGLES**

\*BT1 dogs

**BEAM ACCEPTANCE**

UF *acceptance (beam)*

RT beam optics

**BEAM ANALYZERS**

*For momentum analysis of charged particle beams.*

NT1 electrostatic analyzers

NT1 magnetic analyzers

RT beam monitors

RT monochromators

**BEAM-BEAM INTERACTIONS**

INIS: 1999-03-23; ETDE: 1979-05-25

RT beam dynamics

RT beam stacking

RT colliding beams

**BEAM BENDING MAGNETS**

\*BT1 magnets

RT beam optics

RT magnetic analyzers

**beam blowup**

INIS: 1984-04-04; ETDE: 2002-06-13

USE beam dynamics

**BEAM BUNCHERS**

RT beam bunching

**BEAM BUNCHING**

UF *bunching (beam)*

\*BT1 beam dynamics

RT beam bunchers

RT beam optics

RT beam shaping

**beam choppers**

1975-08-26

USE beam pulsers

**BEAM COOLING**

INIS: 1982-04-13; ETDE: 1979-05-03

*For improving the quality of particle beams.*

NT1 electron cooling

NT1 stochastic cooling

NT2 momentum cooling

RT beam dynamics

**BEAM CURRENTS**

UF *currents (beam)*

BT1 currents

NT1 amp beam currents

NT1 kilo amp beam currents

NT1 mega amp beam currents

NT1 micro amp beam currents

NT1 milli amp beam currents

NT1 nano amp beam currents

NT1 pico amp beam currents

RT beam monitoring

RT beam monitors

RT current density

RT faraday cups

**BEAM DUMPS**

*Mass of shielding material to absorb an accelerator beam after experimental use.*

RT accelerator facilities

RT accelerators

**BEAM DYNAMICS**

*Particle beam motion inside an accelerator.*

UF *beam blowup*

UF *blowup (particle beams)*

UF *dynamics (beam)*

\*BT1 dynamics

NT1 beam bunching

NT1 betatron oscillations

NT1 phase oscillations

NT1 synchrotron oscillations

RT accelerators

RT beam-beam interactions

RT beam cooling

RT beam optics

RT beam stacking

RT negative mass effect

RT orbit stability

RT orbits

RT phase stability

RT trajectories

**BEAM EMITTANCE**

UF *beam perveance*

UF *emittance (beam)*

RT beam optics

RT brightness

**BEAM EXTRACTION**

UF *extraction (beam)*

RT beam optics

RT kicker magnets

RT septum magnets

**BEAM FOCUSING MAGNETS**

\*BT1 magnets

RT beam optics

RT quadrupoles

**beam-foil spectroscopy**

USE ion spectroscopy

**beam-gas spectroscopy**

USE ion spectroscopy

**BEAM HOLES**

*Hole through a reactor for the passage of a beam of radiation for experiments outside the reactor.*

\*BT1 reactor channels

\*BT1 reactor experimental facilities

**BEAM INJECTION**

UF *injection (beams)*

NT1 cluster beam injection

NT1 electron beam injection

NT1 ion beam injection

NT2 molecular ion beam injection

NT1 neutral atom beam injection

NT1 plasma beam injection

NT1 relativistic beam injection

RT beam injection heating

RT beam optics

RT beam production

RT particle boosters

RT thermonuclear devices

**BEAM INJECTION HEATING**

\*BT1 plasma heating

RT atomic beam sources

RT beam injection

**BEAM LUMINOSITY**

*Colliding beam interaction rate.*

RT colliding beams

RT electron cooling

RT interactions

**BEAM MONITORING**

UF *monitoring (beam)*

BT1 monitoring

RT beam currents

RT beam monitors

RT beam position

RT beam profiles

RT magnetoinduction sensors

**BEAM MONITORS**

- UF* monitors (beam)
- \*BT1 monitors
- NT1 beam scanners
- NT1 faraday cups
- NT1 magnetoinduction sensors
- RT accelerator facilities
- RT beam analyzers
- RT beam currents
- RT beam monitoring
- RT beam position
- RT beam profiles

**BEAM NEUTRALIZATION**

- UF* neutralization (beam)
- RT charge exchange
- RT ionization
- RT particle beams

**BEAM OPTICS**

- RT alignment
- RT beam acceptance
- RT beam bending magnets
- RT beam bunching
- RT beam dynamics
- RT beam emittance
- RT beam extraction
- RT beam focusing magnets
- RT beam injection
- RT beam shaping
- RT beam splitting
- RT beam transport
- RT chromatic aberrations
- RT collimators
- RT electrostatic lenses
- RT electrostatic mirrors
- RT electrostatic septa
- RT focusing
- RT geometrical aberrations
- RT kicker magnets
- RT monochromators
- RT optical systems
- RT optics
- RT septum magnets

**beam perveance**

*INIS: 2000-04-12; ETDE: 1981-07-06*

- USE beam emittance
- USE space charge

**BEAM-PLASMA SYSTEMS**

- RT beams
- RT pierce instability
- RT plasma
- RT whistler instability

**BEAM POSITION**

- RT beam monitoring
- RT beam monitors
- RT beam scanners

**BEAM PRODUCTION**

- UF* production (beam)
- RT beam injection

**BEAM PROFILES**

- UF* beam widths
- RT beam monitoring
- RT beam monitors
- RT beam scanners
- RT beam shaping

**BEAM PULSERS**

1975-09-25

- UF* beam choppers
- UF* choppers (beam)
- UF* pulsed beam deflectors
- NT1 neutron choppers
- RT beam shaping
- RT beams
- RT pulsed irradiation

- RT pulses

**BEAM SCANNERS**

- UF* scanners (beam)
- \*BT1 beam monitors
- RT beam position
- RT beam profiles

**BEAM SEPARATORS**

*For velocity separation of secondary beams.*

- RT accelerators

**BEAM SHAPING**

1975-08-22

- RT beam bunching
- RT beam optics
- RT beam profiles
- RT beam pulsers
- RT focusing

**BEAM SPLITTING**

1975-10-09

- RT beam optics

**BEAM STACKING**

- RT beam-beam interactions
- RT beam dynamics

**BEAM STRIPPERS**

- UF* stripper foils
- UF* strippers
- RT atomic beams
- RT charge exchange
- RT charge states
- RT electron loss
- RT ion beams

**BEAM TRANSPORT**

- UF* laser guidance
- UF* transport (beam)
- RT beam optics

**beam widths**

- USE beam profiles

**BEAMS**

- NT1 antiparticle beams
- NT2 antineutrino beams
- NT2 antinucleon beams
- NT3 antiproton beams
- NT1 atomic beams
- NT1 cluster beams
- NT1 colliding beams
- NT1 ion beams
- NT2 aluminium 27 beams
- NT2 argon 38 beams
- NT2 argon 40 beams
- NT2 beryllium 9 beams
- NT2 bismuth 209 beams
- NT2 boron 10 beams
- NT2 boron 11 beams
- NT2 bromine 79 beams
- NT2 calcium 40 beams
- NT2 calcium 48 beams
- NT2 carbon 12 beams
- NT2 carbon 13 beams
- NT2 chlorine 35 beams
- NT2 chlorine 37 beams
- NT2 copper 63 beams
- NT2 deuterium beams
- NT2 fluorine 19 beams
- NT2 gadolinium 155 beams
- NT2 germanium 74 beams
- NT2 germanium 76 beams
- NT2 gold 197 beams
- NT2 helium 3 beams
- NT2 helium 4 beams
- NT3 alpha beams
- NT2 hydrogen 1 minus beams
- NT2 iodine 127 beams
- NT2 iron 56 beams
- NT2 iron 58 beams

- NT2 krypton 84 beams
- NT2 krypton 86 beams
- NT2 lanthanum 139 beams
- NT2 lead 208 beams
- NT2 lithium 6 beams
- NT2 lithium 7 beams
- NT2 magnesium 24 beams
- NT2 magnesium 25 beams
- NT2 neon 20 beams
- NT2 neon 22 beams
- NT2 nickel 58 beams
- NT2 nickel 60 beams
- NT2 nitrogen 14 beams
- NT2 nitrogen 15 beams
- NT2 oxygen 16 beams
- NT2 oxygen 18 beams
- NT2 phosphorus 31 beams
- NT2 potassium 39 beams
- NT2 potassium 41 beams
- NT2 radioactive ion beams
- NT3 argon 39 beams
- NT3 beryllium 7 beams
- NT3 carbon 10 beams
- NT3 carbon 11 beams
- NT3 carbon 14 beams
- NT3 chlorine 39 beams
- NT3 helium 8 beams
- NT3 neon 19 beams
- NT3 nitrogen 13 beams
- NT3 sulfur 38 beams
- NT3 triton beams
- NT3 uranium 238 beams
- NT2 silicon 28 beams
- NT2 silicon 29 beams
- NT2 silver 107 beams
- NT2 sodium 23 beams
- NT2 sulfur 32 beams
- NT2 tin 120 beams
- NT2 titanium 48 beams
- NT2 titanium 50 beams
- NT2 tungsten 184 beams
- NT2 xenon 129 beams
- NT2 xenon 131 beams
- NT2 xenon 132 beams
- NT2 xenon 136 beams
- NT1 molecular beams
- NT1 particle beams
- NT2 hyperon beams
- NT3 lambda particle beams
- NT3 sigma particle beams
- NT2 lepton beams
- NT3 electron beams
- NT3 muon beams
- NT3 neutrino beams
- NT4 antineutrino beams
- NT3 positron beams
- NT2 meson beams
- NT3 eta meson beams
- NT3 kaon beams
- NT3 pion beams
- NT2 nucleon beams
- NT3 neutron beams
- NT3 proton beams
- NT1 photon beams
- NT1 polarized beams
- NT1 secondary beams
- NT2 carbon 11 beams
- NT2 helium 8 beams
- RT beam-plasma systems
- RT beam pulsers
- RT stern-gerlach experiment

**beams (structural)**

*INIS: 1983-09-06; ETDE: 1977-08-24*

- USE structural beams

**bean plant**

- USE phaseolus

**BEANS**

- \*BT1 vegetables
- NT1 mungbeans
- RT phaseolus
- RT seeds

**BEARINGS**

- NT1 ball bearings
- NT1 gas bearings
- NT1 hydrostatic bearings
- NT1 journal bearings
- NT1 magnetic bearings
- NT1 roller bearings
- RT bushings
- RT lubrication
- RT tribology
- RT wear

**BEARS**

INIS: 1993-04-29; ETDE: 1986-07-08

Ursidae.

- \*BT1 mammals

**BEAT WAVE ACCELERATORS**

INIS: 1988-02-02; ETDE: 1987-09-03

Laser-driven accelerators using the concept in which two laser beams are superimposed in a plasma, the difference of their frequency being the natural frequency of oscillation of the plasma.

- \*BT1 linear accelerators
- RT laser radiation
- RT plasma waves

**BEAUFORT SEA**

INIS: 1991-09-19; ETDE: 1977-04-12

- \*BT1 arctic ocean
- NT1 prudhoe bay

**BEAUTY BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

UF bottom baryons

- \*BT1 baryons
- \*BT1 beauty particles
- NT1 lambda b neutral baryons

**BEAUTY MESONS**

INIS: 1995-08-07; ETDE: 1988-02-02

UF bottom mesons

- \*BT1 beauty particles
- \*BT1 mesons
- NT1 b c mesons
- NT1 b mesons
  - NT2 b minus mesons
  - NT2 b neutral mesons
  - NT3 anti-b neutral mesons
  - NT2 b plus mesons
- NT1 b s mesons
- NT1 b\*-5325 mesons

**beauty model**

INIS: 1984-04-04; ETDE: 1979-11-07

(Prior to January 1995, this was a valid ETDE descriptor.)

USE flavor model

**BEAUTY PARTICLES**

INIS: 1995-10-04; ETDE: 1979-04-11

UF bottom particles

- BT1 elementary particles
- NT1 b quarks
  - NT2 b antiquarks
- NT1 beauty baryons
  - NT2 lambda b neutral baryons
- NT1 beauty mesons
  - NT2 b c mesons
  - NT2 b mesons
    - NT3 b minus mesons
    - NT3 b neutral mesons
    - NT4 anti-b neutral mesons
    - NT3 b plus mesons

NT2 b s mesons

NT2 b\*-5325 mesons

RT bottomonium

RT flavor model

RT quark model

RT top particles

**BEAVER VALLEY-1 REACTOR**

FirstEnergy Nuclear Operating Co.,  
Shippingport Pennsylvania, USA.

- \*BT1 pwr type reactors

**BEAVER VALLEY-2 REACTOR**

FirstEnergy Nuclear Operating Co.,  
Shippingport Pennsylvania, USA.

- \*BT1 pwr type reactors

**beaverlodge**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE saskatchewan

**BEAVERLODGE MINE**

INIS: 1975-10-23; ETDE: 1975-12-16

Saskatchewan, Canada.

- \*BT1 uranium mines
- RT saskatchewan

**BEAVON PROCESS**

2000-04-12

Process for sulfur removal for purification of claus unit tail gas to well below 250 ppm of sulfur dioxide; process combines hydrogenation, cooling, and wet oxidative extraction and yields sulfur by-product.

- \*BT1 desulfurization

**beck cycle**

INIS: 2000-04-12; ETDE: 1980-08-12

SEE lift cycles

SEE mist-lift cycles

**BECQUERELITE**

\*BT1 oxide minerals

\*BT1 uranium minerals

RT calcium oxides

RT uranium oxides

**BEDROCK PROJECT**

INIS: 1999-03-23; ETDE: 1976-07-07

UF hushed echo event

UF project bedrock

UF stilton-hushed echo event

\*BT1 nuclear explosions

RT contained explosions

RT underground explosions

**BEDT-TTF**

INIS: 1993-04-13; ETDE: 1985-11-19

UF bisethylenedithiolotetrafulvalene

\*BT1 heterocyclic compounds

\*BT1 organic sulfur compounds

\*BT1 organic superconductors

**BEECH TREES**

INIS: 1991-12-16; ETDE: 1978-09-11

\*BT1 magnoliopsida

\*BT1 trees

**beef**

USE meat

**beehive coke**

INIS: 2000-04-12; ETDE: 1979-09-27

(Prior to September 1994, this was a valid ETDE descriptor.)

USE coke

**BEEES**

INIS: 1993-07-12; ETDE: 1981-04-17

UF apis mellifera

\*BT1 hymenoptera

**BEEETLES**

UF weevils

\*BT1 coleoptera

NT1 boll weevil

NT1 tribolium

**BEETS**

\*BT1 magnoliopsida

\*BT1 vegetables

NT1 sugar beets

**BEHAVIOR**

Limited to living systems.

SF life styles

SF psychology

SF way of life

NT1 avoidance

RT attitudes

RT biological adaptation

RT central nervous system

RT central nervous system agents

RT central nervous system depressants

RT cerebral cortex

RT competition

RT human factors

RT insect dispersal

RT learning

RT leisure time activities

RT mating

RT mental disorders

RT physiology

RT predator-prey interactions

RT public anxiety

RT reflexes

RT safety culture

**BEIJING ELECTRON-POSITRON COLLIDER**

INIS: 1992-10-19; ETDE: 1992-11-04

\*BT1 linear accelerators

BT1 storage rings

**beijing miniature neutron source reactor**

2004-03-15

USE mnsr-ciae reactor

**BEIJING PROTON LINAC**

INIS: 1992-10-19; ETDE: 1992-11-04

\*BT1 linear accelerators

**BELARUS**

INIS: 1997-08-20; ETDE: 1993-03-15

(Until January 1993, this was indexed by BYELORUSSIAN SSR.)

UF byelorussian SSR

SF soviet union

SF union of soviet socialist republics

SF ussr

\*BT1 eastern europe

**BELGIAN ORGANIZATIONS**

INIS: 1980-09-12; ETDE: 1980-10-07

BT1 national organizations

**belgian reactor 02**

USE br-02 reactor

**belgian reactor 1**

USE br-1 reactor

**belgian reactor 2**

USE br-2 reactor

**belgian reactor 3**

USE br-3 reactor

**belgian reactor-3/vulcain**

USE br-3-vn reactor



**BELGIUM**

1995-04-03

- BT1 developed countries
- \*BT1 western europe
- RT oecd

**BELIZE**

INIS: 1997-04-29; ETDE: 1979-12-10

- \*BT1 central america
- BT1 developing countries

**bell inequality**

INIS: 1977-10-17; ETDE: 1976-11-17

- USE bell theorem

**BELL REACTOR**

*New York State Electric and Gas, Lake Cayuga, New York, USA. Canceled in 1972 before construction began.*

- \*BT1 bwr type reactors

**BELL THEOREM**

INIS: 1977-10-17; ETDE: 1976-11-17

*A theorem proving certain quantum mechanical predictions are inconsistent with the entire family of local hidden variable theories.*

- UF bell inequality
- RT hidden variables
- RT quantum mechanics

**BELLEFONTE-1 REACTOR**

*TVA, Scottsboro, Alabama, USA. Indefinitely deferred.*

- \*BT1 pwr type reactors

**BELLEFONTE-2 REACTOR**

*TVA, Scottsboro, Alabama, USA. Indefinitely deferred.*

- \*BT1 pwr type reactors

**BELLEVILLE SUR LOIRE-1 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

- \*BT1 pwr type reactors

**BELLEVILLE SUR LOIRE-2 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

- \*BT1 pwr type reactors

**BELLOWS**

*Use only for the expandable structure. Coordinate with descriptors for the device of which the bellows is a component, e.g., VALVES or BLOWERS.*

- RT blowers
- RT expansion joints
- RT pressure gages
- RT pumps
- RT valves

**BELOYARSK-1 REACTOR**

Zarechnyy, Sverdlovsk, Russian Federation.

- UF bnps-1 reactor
- SF urals atomic power station
- \*BT1 enriched uranium reactors
- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**BELOYARSK-2 REACTOR**

Zarechnyy, Sverdlovsk, Russian Federation.

- UF bnps-2 reactor
- SF urals atomic power station
- \*BT1 enriched uranium reactors
- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**BELOYARSK-3 REACTOR**

Zarechnyy, Sverdlovsk, Russian Federation.

- UF bn-600 reactor
- SF urals atomic power station
- \*BT1 lmfr type reactors
- \*BT1 power reactors
- \*BT1 sodium cooled reactors
- RT enriched uranium reactors
- RT plutonium reactors

**BELOYARSK-4 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13

Zarechnyy, Sverdlovsk, Russian Federation.

- \*BT1 lmfr type reactors
- \*BT1 power reactors
- \*BT1 sodium cooled reactors

**BELT CONVEYORS**

INIS: 1992-07-22; ETDE: 1980-08-12

- \*BT1 conveyors
- RT coal mining
- RT mining

**BELT PINCH**

- \*BT1 longitudinal pinch

**BELYAEV THEORY**

- RT nuclear structure
- RT superconductivity

**BENCH-SCALE EXPERIMENTS**

1981-05-11

- UF laboratory scale experiments
- RT demonstration plants
- RT feasibility studies
- RT field tests
- RT laboratory equipment
- RT process development units
- RT testing

**benchmark experiments**

INIS: 1979-05-28; ETDE: 2002-06-13

- USE benchmarks

**BENCHMARKS**

INIS: 1979-05-28; ETDE: 1978-09-11

- UF benchmark experiments
- RT experimental data
- RT standardization
- RT standards

**BENDING**

- BT1 deformation
- RT flexural strength

**BENFIELD PROCESS**

2000-04-12

*Process for removal of carbon dioxide, hydrogen sulfide, and COS from sour natural gas and raw gases produced during manufacture of substitute natural gas by partial oxidation of coal or oil or by naphtha reforming.*

- \*BT1 desulfurization

**benham event**

1994-10-13

*A test made during OPERATION BOWLINE. (Prior to September 1994, this was a valid ETDE descriptor.)*

- USE nuclear explosions
- USE underground explosions

**beni oil**

- USE sesame oil

**BENIN**

INIS: 1992-06-04; ETDE: 1981-07-18

- UF dahomey
- BT1 africa
- RT niger river

**benioff zone**

INIS: 2000-04-12; ETDE: 1985-06-04

*A plane dipping beneath the continents along which earthquake foci cluster. It corresponds to the upper surface of a descending plate. (Prior to February 1995, this was a valid ETDE descriptor.)*

- USE earthquakes
- USE subduction zones

**benne oil**

- USE sesame oil

**BENTHOS**

INIS: 1999-03-05; ETDE: 1976-07-07

*Aquatic bottom dwelling organisms.*

- BT1 aquatic organisms
- NT1 echinoderms
- NT2 sea urchins
- RT aquatic ecosystems
- RT molluscs

**BENTONITE**

*A soft, plastic, porous, light-colored rock consisting largely of colloidal silica and composed essentially of clay minerals (chiefly of the montmorillonite group).*

- \*BT1 clays
- \*BT1 inorganic ion exchangers
- RT montmorillonite

**BENZALDEHYDE**

- UF benzoic aldehyde
- \*BT1 aldehydes

**BENZANTHRACENE**

- \*BT1 condensed aromatics
- \*BT1 hydrocarbons

**BENZEDRINE**

- UF phenylisopropylamine
- \*BT1 amphetamines

**BENZENE**

- \*BT1 aromatics
- \*BT1 hydrocarbons
- RT aniline
- RT nitrobenzene

**benzenedicarboxylic acid-ortho**

- USE phthalic acid

**benzenedicarboxylic acid-para**

- USE terephthalic acid

**BENZHYDROL**

- UF benzohydrol
- UF diphenylcarbinol
- UF diphenylmethanol
- \*BT1 alcohols

**BENZIDINE**

1996-10-22

- UF biphenyldiamine
- UF diaminobiphenyl
- \*BT1 amines
- \*BT1 aromatics
- RT biphenyl

**BENZILIC ACID**

- UF diphenylglycolic acid
- UF hydroxydiphenylacetic acid
- \*BT1 hydroxy acids

**BENZIMIDAZOLES**

- \*BT1 imidazoles

**benzine**

INIS: 2000-04-12; ETDE: 1975-12-17

- USE ligroin

**BENZOFURANS**

- \*BT1 furans

RT organic polymers  
RT psoralen

**benzohydrol**

USE benzhydrol

**BENZOHYDROXAMIC ACID**

\*BT1 hydroxamic acids  
RT benzoic acid

**BENZOIC ACID**

1996-10-23

\*BT1 monocarboxylic acids  
RT benzohydroxamic acid  
RT benzoyl peroxide

**benzoic aldehyde**

USE benzaldehyde

**BENZOINOXIME**

\*BT1 oximes

**BENZOPHENONE**

UF diphenyl ketone  
\*BT1 ketones

**benzopinacol**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor; it was used for the concept TETRAPHENYLETHYLENE GLYCOL.)

USE glycols

**BENZOPYRENE**

\*BT1 condensed aromatics  
\*BT1 hydrocarbons

**benzopyrroles**

USE indoles

**BENZOQUINONES**

1996-10-23

(Prior to March 1997 QUINHYDRONE was a valid ETDE descriptor.)

UF chinone

UF quinhydrone

UF quinone

\*BT1 quinones

NT1 chloranil

NT1 chloranilic acid

NT1 plastoquinone

NT1 ubiquinone

**BENZOTHIAZOLES**

\*BT1 thiazoles

**benzothiophenes**

USE thionaphthenes

**BENZOXAZOLES**

\*BT1 oxazoles

**BENZOYL PEROXIDE**

\*BT1 organic oxygen compounds  
\*BT1 peroxides  
RT benzoic acid

**BENZOYL RADICALS**

BT1 radicals

**benzoylaminoacetic acid**

USE hippuric acid

**BENZOYLATION**

\*BT1 acylation

**benzoylglycine**

USE hippuric acid

**benzoylglycocol**

USE hippuric acid

**benzoylphenylhydroxylamine**

USE bph

**BENZYL ALCOHOL**

1982-02-10

UF phenylcarbinol

\*BT1 alcohols

\*BT1 aromatics

**BENZYL RADICALS**

\*BT1 aryl radicals

**BEPO REACTOR**

UF british experimental pile operation

\*BT1 air cooled reactors

\*BT1 graphite moderated reactors

\*BT1 isotope production reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 thermal reactors

**BEPPU GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1977-09-19

BT1 geothermal fields

RT japan

**BER-2 REACTOR**

Hahn-Meitner-Institute fuer Kernforschung GmbH, Berlin, Federal Republic of Germany.

UF berlin-2 research reactor

UF forschungsreaktor berlin-2

\*BT1 aqueous homogeneous reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**bergbauforschung-foster wheeler process**

INIS: 2000-04-12; ETDE: 1977-04-12

Dry process using a moving bed of char to adsorb sulfur dioxide, nitrogen oxides, and particulates from flue gas and produce elemental sulfur. Unique features include lowered, moving bed adsorber, hot inert sand for thermal regeneration of char, and utilizing coal to reduce sulfur dioxide to sulfur.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE desulfurization

**BERGBAUFORSCHUNG PROCESS**

INIS: 2000-04-12; ETDE: 1977-09-19

Sulfur dioxide removal at 120 to 150 degrees C by adsorption on activated cokes with sulfur recovery.

\*BT1 desulfurization

RT waste processing

**BERGIUS PROCESS**

2000-04-12

Catalytic conversion of coal to synthetic crude oil by treatment with hydrogen at elevated pressures and temperatures.

\*BT1 coal liquefaction

**BERING SEA**

\*BT1 pacific ocean

RT aleutian islands

**berkeley bevalac**

INIS: 1976-01-28; ETDE: 1979-05-03

USE bevalac

**berkeley escar storage ring**

INIS: 1976-02-11; ETDE: 1979-05-09

USE escar storage ring

**berkeley nuclear laboratory reactor**

2000-04-12

SEE graphite moderated reactors

SEE research reactors

SEE zero power reactors

**BERKELEY REACTOR**

Berkeley, Gloucestershire, United Kingdom.

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 thermal reactors

**berkeley research reactor**

2005-05-20

Univ. of California, Berkeley, California, USA.

USE ucbr reactor

**berkeley superhilac**

USE superhilac

**BERKELEY SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

**berkeley triga reactor**

USE ucbr reactor

**BERKELIUM**

\*BT1 actinides

\*BT1 transplutonium elements

**BERKELIUM 235**

2007-07-10

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**BERKELIUM 236**

2007-07-10

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

**BERKELIUM 237**

2007-07-10

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

**BERKELIUM 238**

2007-07-10

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**BERKELIUM 239**

2007-07-10

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**BERKELIUM 240**

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**BERKELIUM 241**

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 odd-even nuclei

**BERKELIUM 242**

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**BERKELIUM 243**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 berkelium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**BERKELIUM 244**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 berkelium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**BERKELIUM 245**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 berkelium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**BERKELIUM 246**

- \*BT1 actinide nuclei
- \*BT1 berkelium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei

**BERKELIUM 247**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 berkelium isotopes
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**BERKELIUM 248**

- \*BT1 actinide nuclei
- \*BT1 berkelium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**BERKELIUM 249**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 berkelium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**BERKELIUM 249 TARGET**

*INIS: 1976-10-07; ETDE: 1976-11-01*  
BT1 targets

**BERKELIUM 250**

- \*BT1 actinide nuclei
- \*BT1 berkelium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**BERKELIUM 251**

- \*BT1 actinide nuclei
- \*BT1 berkelium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BERKELIUM 252**

*2007-07-10*  
\*BT1 actinide nuclei

- \*BT1 berkelium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**BERKELIUM 253**

*2007-07-10*  
\*BT1 actinide nuclei  
\*BT1 berkelium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**BERKELIUM 254**

*2007-07-10*  
\*BT1 actinide nuclei  
\*BT1 berkelium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**berkelium additions**

*2000-04-12*  
(Prior to August 1993 this was a valid ETDE descriptor.)  
USE alloys

**BERKELIUM ALLOYS**

*INIS: 1979-04-27; ETDE: 1978-10-23*  
*Alloys containing more than 1% Bk.*  
\*BT1 actinide alloys

**BERKELIUM ARSENIDES**

*INIS: 1996-07-16; ETDE: 1978-10-23*  
(From July 1996 to February 2008  
BERKELIUM COMPOUNDS +  
ARSENIDES was used for this concept.)  
\*BT1 arsenides  
\*BT1 berkelium compounds

**BERKELIUM BROMIDES**

*1997-01-28*  
(From October 1996 to September 2007  
BERKELIUM COMPOUNDS + BROMIDES  
was used for this concept.)  
\*BT1 berkelium compounds  
\*BT1 bromides

**BERKELIUM CHLORIDES**

- \*BT1 berkelium compounds
- \*BT1 chlorides

**BERKELIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**BERKELIUM COMPOUNDS**

*1996-11-13*  
BT1 actinide compounds  
\*BT1 transplutonium compounds  
NT1 berkelium arsenides  
NT1 berkelium bromides  
NT1 berkelium chlorides  
NT1 berkelium fluorides  
NT1 berkelium hydrides  
NT1 berkelium nitrates  
NT1 berkelium nitrides  
NT1 berkelium oxides  
NT1 berkelium phosphates  
NT1 berkelium phosphides  
NT1 berkelium selenides  
NT1 berkelium sulfates  
NT1 berkelium sulfides  
NT1 berkelium tellurides

**BERKELIUM FLUORIDES**

- \*BT1 berkelium compounds
- \*BT1 fluorides

**BERKELIUM HYDRIDES**

*1997-01-28*  
(From November 1996 to November 2007  
BERKELIUM COMPOUNDS + HYDRIDES  
was used for this concept.)  
\*BT1 berkelium compounds  
\*BT1 hydrides

**BERKELIUM IONS**

- \*BT1 ions

**BERKELIUM ISOTOPES**

*1999-07-16*  
BT1 isotopes  
NT1 berkelium 235  
NT1 berkelium 236  
NT1 berkelium 237  
NT1 berkelium 238  
NT1 berkelium 239  
NT1 berkelium 240  
NT1 berkelium 241  
NT1 berkelium 242  
NT1 berkelium 243  
NT1 berkelium 244  
NT1 berkelium 245  
NT1 berkelium 246  
NT1 berkelium 247  
NT1 berkelium 248  
NT1 berkelium 249  
NT1 berkelium 250  
NT1 berkelium 251  
NT1 berkelium 252  
NT1 berkelium 253  
NT1 berkelium 254

**BERKELIUM NITRATES**

- \*BT1 berkelium compounds
- \*BT1 nitrates

**BERKELIUM NITRIDES**

*1997-01-28*  
(From November 1996 to November 2007  
BERKELIUM COMPOUNDS + NITRIDES  
was used for this concept.)  
\*BT1 berkelium compounds  
\*BT1 nitrides

**BERKELIUM OXIDES**

- \*BT1 berkelium compounds
- \*BT1 oxides

**BERKELIUM PHOSPHATES**

*1996-07-16*  
(From July 1996 to November 2007  
BERKELIUM COMPOUNDS +  
PHOSPHATES was used for this concept.)  
\*BT1 berkelium compounds  
\*BT1 phosphates

**BERKELIUM PHOSPHIDES**

*INIS: 1996-07-16; ETDE: 1978-10-23*  
(From July 1996 to November 2007  
BERKELIUM COMPOUNDS +  
PHOSPHIDES was used for this concept.)  
\*BT1 berkelium compounds  
\*BT1 phosphides

**BERKELIUM SELENIDES**

*INIS: 1996-07-16; ETDE: 1978-10-23*  
(From July 1996 to November 2007  
BERKELIUM COMPOUNDS + SELENIDES  
was used for this concept.)  
\*BT1 berkelium compounds  
\*BT1 selenides

**BERKELIUM SULFATES**

*1996-07-16*  
(From July 1996 to November 2007  
BERKELIUM COMPOUNDS + SULFATES  
was used for this concept.)  
\*BT1 berkelium compounds  
\*BT1 sulfates

**BERKELIUM SULFIDES**

1996-06-26

(From June 1996 to November 2007

BERKELIUM COMPOUNDS + SULFIDES  
was used for this concept.)

\*BT1 berkelium compounds

\*BT1 sulfides

**BERKELIUM TELLURIDES**

INIS: 1996-07-16; ETDE: 1978-10-23

(From July 1996 to February 2008

BERKELIUM COMPOUNDS +  
TELLURIDES was used for this concept.)

\*BT1 berkelium compounds

\*BT1 tellurides

**berl saddles**

USE column packing

**berlin-2 research reactor**

USE ber-2 reactor

**berms**

INIS: 2000-04-12; ETDE: 1979-09-26

USE earth berms

**BERMUDA**

INIS: 1984-02-22; ETDE: 1980-06-06

BT1 islands

RT atlantic ocean

RT united kingdom

**BERNOULLI LAW**

RT fluid flow

**BERNSTEIN MODE**

BT1 oscillation modes

RT cyclotron harmonics

RT ion wave instability

RT ion waves

RT plasma heating

**BERRIES**

\*BT1 fruits

NT1 blueberries

NT1 raspberries

NT1 strawberries

**BERYL**

\*BT1 silicate minerals

RT beryllium silicates

**beryllia**

INIS: 1975-09-01; ETDE: 1979-05-03

USE beryllium oxides

**BERYLLIOSIS**

\*BT1 pneumoconioses

RT beryllium compounds

**BERYLLIUM**

1996-07-16

(Prior to August 1996 BERYLLIUM-ALPHA  
and BERYLLIUM-BETA were valid ETDE  
descriptors.)

UF beryllium-alpha

UF beryllium-beta

UF beryllium moderators

\*BT1 alkaline earth metals

RT moderators

**BERYLLIUM 10**

\*BT1 beryllium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 years living radioisotopes

**BERYLLIUM 10 TARGET**

ETDE: 1976-07-09

BT1 targets

**BERYLLIUM 11**

\*BT1 beryllium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 seconds living radioisotopes

**BERYLLIUM 11 REACTIONS**

1995-03-28

\*BT1 heavy ion reactions

**BERYLLIUM 11 TARGET**

INIS: 1979-09-18; ETDE: 1979-10-23

BT1 targets

**BERYLLIUM 12**

\*BT1 beryllium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**BERYLLIUM 13**

\*BT1 beryllium isotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

**BERYLLIUM 14**

\*BT1 beryllium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**BERYLLIUM 15**

2007-09-26

\*BT1 beryllium isotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

**BERYLLIUM 16**

2007-09-26

\*BT1 beryllium isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

**BERYLLIUM 5**

\*BT1 beryllium isotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

**BERYLLIUM 6**

\*BT1 beryllium isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

**BERYLLIUM 6 TARGET**

INIS: 1992-09-22; ETDE: 1977-05-07

BT1 targets

**BERYLLIUM 7**

\*BT1 beryllium isotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

RT beryllium 7 beams

RT beryllium 7 reactions

**BERYLLIUM 7 BEAMS**

\*BT1 radioactive ion beams

RT beryllium 7

**BERYLLIUM 7 REACTIONS**

INIS: 1984-01-18; ETDE: 1985-10-25

\*BT1 heavy ion reactions

RT beryllium 7

**BERYLLIUM 7 TARGET**

INIS: 1976-11-08; ETDE: 1976-12-16

BT1 targets

**BERYLLIUM 8**

\*BT1 alpha decay radioisotopes

\*BT1 beryllium isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

**BERYLLIUM 8 REACTIONS**

INIS: 1983-09-05; ETDE: 1981-01-30

\*BT1 heavy ion reactions

**BERYLLIUM 8 TARGET**

INIS: 1979-02-21; ETDE: 1979-03-28

BT1 targets

**BERYLLIUM 9**

\*BT1 beryllium isotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 stable isotopes

RT beryllium 9 beams

**BERYLLIUM 9 BEAMS**

\*BT1 ion beams

RT beryllium 9

**BERYLLIUM 9 REACTIONS**

\*BT1 heavy ion reactions

**BERYLLIUM 9 TARGET**

ETDE: 1976-07-09

BT1 targets

**BERYLLIUM ADDITIONS**Alloys containing not more than 1% Be are  
listed here.

\*BT1 beryllium alloys

**BERYLLIUM ALLOYS**

Alloys containing more than 1% Be.

BT1 alloys

NT1 beryllium additions

NT1 beryllium base alloys

RT moderators

**beryllium-alpha**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE beryllium

**BERYLLIUM BASE ALLOYS**

\*BT1 beryllium alloys

**beryllium-beta**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE beryllium

**BERYLLIUM BORIDES**

\*BT1 beryllium compounds

\*BT1 borides

**BERYLLIUM BROMIDES**

\*BT1 beryllium compounds

\*BT1 bromides

**BERYLLIUM CARBIDES**

\*BT1 beryllium compounds

\*BT1 carbides

**BERYLLIUM CARBONATES**

\*BT1 beryllium compounds

\*BT1 carbonates

**BERYLLIUM CHLORIDES**

\*BT1 beryllium compounds

\*BT1 chlorides

**BERYLLIUM COMPLEXES**

\*BT1 alkaline earth metal complexes

**BERYLLIUM COMPOUNDS**

1997-06-17

SF gadolinite

BT1 alkaline earth metal compounds

NT1 beryllium borides

NT1 beryllium bromides

NT1 beryllium carbides

NT1 beryllium carbonates  
 NT1 beryllium chlorides  
 NT1 beryllium fluorides  
 NT1 beryllium halides  
 NT2 beryllium iodides  
 NT1 beryllium hydrides  
 NT1 beryllium hydroxides  
 NT1 beryllium nitrates  
 NT1 beryllium nitrides  
 NT1 beryllium oxides  
 NT1 beryllium phosphates  
 NT1 beryllium phosphides  
 NT1 beryllium selenides  
 NT1 beryllium silicates  
 NT1 beryllium sulfates  
 NT1 beryllium sulfides  
 NT1 beryllium tellurides  
 RT berylliosis  
 RT moderators

**BERYLLIUM FLUORIDES**

\*BT1 beryllium compounds  
 \*BT1 fluorides  
 RT flibe

**BERYLLIUM HALIDES**

2008-02-07

\*BT1 beryllium compounds  
 \*BT1 halides  
 NT1 beryllium iodides

**BERYLLIUM HYDRIDES**

\*BT1 beryllium compounds  
 \*BT1 hydrides

**BERYLLIUM HYDROXIDES**

\*BT1 beryllium compounds  
 \*BT1 hydroxides

**BERYLLIUM IODIDES**

1996-07-16

(From July 1996 to February 2008

BERYLLIUM COMPOUNDS + IODIDES was used for this concept.)

\*BT1 beryllium halides  
 \*BT1 iodides

**BERYLLIUM IONS**

\*BT1 ions

**BERYLLIUM ISOTOPES**

1999-02-01

\*BT1 alkaline earth isotopes  
 NT1 beryllium 10  
 NT1 beryllium 11  
 NT1 beryllium 12  
 NT1 beryllium 13  
 NT1 beryllium 14  
 NT1 beryllium 15  
 NT1 beryllium 16  
 NT1 beryllium 5  
 NT1 beryllium 6  
 NT1 beryllium 7  
 NT1 beryllium 8  
 NT1 beryllium 9

**BERYLLIUM MODERATED REACTORS**

UF *in-core thermionic reactor*  
 UF *itr reactor*  
 \*BT1 metal moderated reactors  
 NT1 agata reactor  
 NT1 br-02 reactor  
 NT1 ebor reactor  
 NT1 ewg-1 reactor  
 NT1 maria reactor  
 NT1 nuclear furnace reactor

**beryllium moderators**

USE beryllium

**BERYLLIUM NITRATES**

\*BT1 beryllium compounds  
 \*BT1 nitrates

**BERYLLIUM NITRIDES**

\*BT1 beryllium compounds  
 \*BT1 nitrides

**BERYLLIUM OXIDES**

UF *beryllia*  
 \*BT1 beryllium compounds  
 \*BT1 oxides  
 RT chrysoberyl  
 RT moderators

**BERYLLIUM PHOSPHATES**

\*BT1 beryllium compounds  
 \*BT1 phosphates

**BERYLLIUM PHOSPHIDES**

INIS: 1996-07-16; ETDE: 1977-06-02

(From July 1996 to November 2007

BERYLLIUM COMPOUNDS + PHOSPHIDES was used for this concept.)

\*BT1 beryllium compounds  
 \*BT1 phosphides

**BERYLLIUM SELENIDES**

INIS: 2000-04-12; ETDE: 1977-05-07

\*BT1 beryllium compounds  
 \*BT1 selenides

**BERYLLIUM SILICATES**

\*BT1 beryllium compounds  
 \*BT1 silicates  
 RT beryl  
 RT helvite  
 RT silicate minerals

**BERYLLIUM SULFATES**

\*BT1 beryllium compounds  
 \*BT1 sulfates

**BERYLLIUM SULFIDES**

1996-07-16

(From July 1996 to November 2007

BERYLLIUM COMPOUNDS + SULFIDES was used for this concept.)

\*BT1 beryllium compounds  
 \*BT1 sulfides

**BERYLLIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1977-05-07

\*BT1 beryllium compounds  
 \*BT1 tellurides

**beryllon**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE arsonic acids  
 USE azo dyes  
 USE dicarboxylic acids  
 USE naphthols  
 USE sulfonic acids

**BESM COMPUTERS**

BT1 computers

**bessel differential equation**

USE fokker-planck equation

**BESSEL FUNCTIONS**

UF *hankel functions*  
 UF *neumann functions*  
 BT1 functions  
 RT neumann series

**BESSY STORAGE RING**

INIS: 1985-04-22; ETDE: 1985-05-07

*Berliner Elektronenspeicherring-Gesellschaft fuer Synchrotronstrahlung.*

BT1 storage rings

**BETA-AMINOETHYL****ISOTHIUREA**

INIS: 2005-01-31; ETDE: 2005-02-01

(Prior to January 2005 AET was used for this concept.)

UF *aet (aminoethylthiopseudourea)*  
 UF *aminoethylisothiuronium bromide*  
 UF *aminoethylthiopseudourea*  
 \*BT1 amines  
 \*BT1 radioprotective substances  
 \*BT1 thioureas

**beta backscattering gages**

USE radiometric gages

**beta beams (electrons)**

USE electron beams

**beta beams (positrons)**

USE positron beams

**BETA DECAY**

1996-07-08

*Neutron and nuclear beta decay.*

SF *way-wigner formula*

\*BT1 nuclear decay

NT1 beta-minus decay

NT2 double beta decay

NT1 beta-plus decay

NT1 electron capture decay

NT2 k capture

NT2 l capture

NT2 m capture

RT beta decay radioisotopes

RT beta particles

RT beta spectra

RT fermi plot

RT feynman-gell-mann theory

RT fierz interference

RT ft value

RT gamow-teller rules

RT internal ionization

RT knipp-uhlenbeck theory

RT lee-yang theory

RT semileptonic decay

RT two-component neutrino theory

**BETA DECAY RADIOISOTOPES**

1997-02-07

\*BT1 radioisotopes

NT1 beta-minus decay radioisotopes

NT2 actinium 226

NT2 actinium 227

NT2 actinium 228

NT2 actinium 229

NT2 actinium 230

NT2 actinium 231

NT2 actinium 232

NT2 actinium 233

NT2 actinium 234

NT2 actinium 235

NT2 actinium 236

NT2 aluminium 28

NT2 aluminium 29

NT2 aluminium 30

NT2 aluminium 31

NT2 aluminium 32

NT2 aluminium 34

NT2 aluminium 36

NT2 aluminium 37

NT2 aluminium 40

NT2 aluminium 41

NT2 aluminium 42

NT2 americium 242

NT2 americium 244

NT2 americium 245

NT2 americium 246

NT2 americium 247

NT2 americium 248

NT2 americium 249

NT2 antimony 122  
NT2 antimony 124  
NT2 antimony 125  
NT2 antimony 126  
NT2 antimony 127  
NT2 antimony 128  
NT2 antimony 129  
NT2 antimony 130  
NT2 antimony 131  
NT2 antimony 132  
NT2 antimony 133  
NT2 antimony 134  
NT2 antimony 135  
NT2 antimony 136  
NT2 antimony 137  
NT2 antimony 138  
NT2 antimony 139  
NT2 argon 39  
NT2 argon 41  
NT2 argon 42  
NT2 argon 43  
NT2 argon 44  
NT2 argon 45  
NT2 argon 46  
NT2 argon 48  
NT2 argon 52  
NT2 argon 53  
NT2 arsenic 74  
NT2 arsenic 76  
NT2 arsenic 77  
NT2 arsenic 78  
NT2 arsenic 79  
NT2 arsenic 80  
NT2 arsenic 81  
NT2 arsenic 82  
NT2 arsenic 83  
NT2 arsenic 84  
NT2 arsenic 85  
NT2 arsenic 86  
NT2 arsenic 87  
NT2 arsenic 88  
NT2 arsenic 89  
NT2 arsenic 90  
NT2 arsenic 91  
NT2 arsenic 92  
NT2 astatine 217  
NT2 astatine 218  
NT2 astatine 219  
NT2 astatine 220  
NT2 astatine 221  
NT2 astatine 222  
NT2 astatine 223  
NT2 barium 139  
NT2 barium 140  
NT2 barium 141  
NT2 barium 142  
NT2 barium 143  
NT2 barium 144  
NT2 barium 145  
NT2 barium 146  
NT2 barium 147  
NT2 barium 148  
NT2 barium 149  
NT2 barium 150  
NT2 barium 151  
NT2 barium 152  
NT2 barium 153  
NT2 berkelium 248  
NT2 berkelium 249  
NT2 berkelium 250  
NT2 berkelium 251  
NT2 berkelium 252  
NT2 berkelium 253  
NT2 berkelium 254  
NT2 beryllium 10  
NT2 beryllium 11  
NT2 beryllium 12  
NT2 beryllium 14  
NT2 bismuth 210

NT2 bismuth 211  
NT2 bismuth 212  
NT2 bismuth 213  
NT2 bismuth 214  
NT2 bismuth 215  
NT2 bismuth 216  
NT2 bismuth 217  
NT2 bismuth 218  
NT2 boron 12  
NT2 boron 13  
NT2 boron 14  
NT2 boron 15  
NT2 boron 16  
NT2 boron 17  
NT2 boron 19  
NT2 bromine 80  
NT2 bromine 82  
NT2 bromine 83  
NT2 bromine 84  
NT2 bromine 85  
NT2 bromine 86  
NT2 bromine 87  
NT2 bromine 88  
NT2 bromine 89  
NT2 bromine 90  
NT2 bromine 91  
NT2 bromine 92  
NT2 bromine 93  
NT2 bromine 94  
NT2 bromine 95  
NT2 bromine 96  
NT2 bromine 97  
NT2 cadmium 113  
NT2 cadmium 115  
NT2 cadmium 117  
NT2 cadmium 118  
NT2 cadmium 119  
NT2 cadmium 120  
NT2 cadmium 121  
NT2 cadmium 122  
NT2 cadmium 123  
NT2 cadmium 124  
NT2 cadmium 125  
NT2 cadmium 126  
NT2 cadmium 127  
NT2 cadmium 128  
NT2 cadmium 129  
NT2 cadmium 130  
NT2 cadmium 131  
NT2 cadmium 132  
NT2 calcium 45  
NT2 calcium 47  
NT2 calcium 49  
NT2 calcium 50  
NT2 calcium 51  
NT2 calcium 52  
NT2 calcium 53  
NT2 calcium 54  
NT2 calcium 55  
NT2 calcium 56  
NT2 calcium 57  
NT2 calcium 58  
NT2 calcium 60  
NT2 californium 253  
NT2 californium 255  
NT2 carbon 14  
NT2 carbon 15  
NT2 carbon 16  
NT2 carbon 17  
NT2 carbon 18  
NT2 cerium 141  
NT2 cerium 143  
NT2 cerium 144  
NT2 cerium 145  
NT2 cerium 146  
NT2 cerium 147  
NT2 cerium 148  
NT2 cerium 149  
NT2 cerium 150

NT2 cerium 151  
NT2 cerium 152  
NT2 cerium 153  
NT2 cerium 154  
NT2 cerium 155  
NT2 cerium 156  
NT2 cerium 157  
NT2 cesium 130  
NT2 cesium 132  
NT2 cesium 134  
NT2 cesium 135  
NT2 cesium 136  
NT2 cesium 137  
NT2 cesium 138  
NT2 cesium 139  
NT2 cesium 140  
NT2 cesium 141  
NT2 cesium 142  
NT2 cesium 143  
NT2 cesium 144  
NT2 cesium 145  
NT2 cesium 146  
NT2 cesium 147  
NT2 cesium 148  
NT2 cesium 149  
NT2 cesium 150  
NT2 cesium 151  
NT2 chlorine 36  
NT2 chlorine 38  
NT2 chlorine 39  
NT2 chlorine 40  
NT2 chlorine 41  
NT2 chlorine 50  
NT2 chromium 55  
NT2 chromium 56  
NT2 chromium 57  
NT2 chromium 58  
NT2 chromium 59  
NT2 chromium 60  
NT2 chromium 62  
NT2 chromium 63  
NT2 chromium 64  
NT2 chromium 65  
NT2 chromium 66  
NT2 chromium 67  
NT2 cobalt 60  
NT2 cobalt 61  
NT2 cobalt 62  
NT2 cobalt 63  
NT2 cobalt 64  
NT2 cobalt 65  
NT2 cobalt 66  
NT2 cobalt 67  
NT2 cobalt 71  
NT2 cobalt 72  
NT2 cobalt 73  
NT2 cobalt 74  
NT2 cobalt 75  
NT2 copper 64  
NT2 copper 66  
NT2 copper 67  
NT2 copper 68  
NT2 copper 69  
NT2 copper 70  
NT2 copper 71  
NT2 copper 72  
NT2 copper 73  
NT2 copper 74  
NT2 copper 75  
NT2 copper 76  
NT2 copper 77  
NT2 copper 78  
NT2 copper 79  
NT2 copper 80  
NT2 curium 249  
NT2 curium 250  
NT2 curium 251  
NT2 dysprosium 165  
NT2 dysprosium 166

---

NT2	dysprosium 167	NT2	germanium 77	NT2	iodine 141
NT2	dysprosium 168	NT2	germanium 78	NT2	iodine 142
NT2	dysprosium 169	NT2	germanium 79	NT2	iodine 143
NT2	dysprosium 170	NT2	germanium 80	NT2	iodine 144
NT2	dysprosium 171	NT2	germanium 81	NT2	iridium 192
NT2	dysprosium 172	NT2	germanium 82	NT2	iridium 194
NT2	dysprosium 173	NT2	germanium 83	NT2	iridium 195
NT2	einsteinium 254	NT2	germanium 84	NT2	iridium 196
NT2	einsteinium 255	NT2	germanium 85	NT2	iridium 197
NT2	einsteinium 256	NT2	germanium 86	NT2	iridium 198
NT2	einsteinium 257	NT2	germanium 87	NT2	iridium 199
NT2	erbium 169	NT2	germanium 88	NT2	iron 59
NT2	erbium 171	NT2	germanium 89	NT2	iron 60
NT2	erbium 172	NT2	gold 196	NT2	iron 61
NT2	erbium 173	NT2	gold 198	NT2	iron 62
NT2	erbium 174	NT2	gold 199	NT2	iron 63
NT2	erbium 175	NT2	gold 200	NT2	iron 64
NT2	erbium 176	NT2	gold 201	NT2	iron 69
NT2	erbium 177	NT2	gold 202	NT2	iron 70
NT2	europium 150	NT2	gold 203	NT2	iron 71
NT2	europium 152	NT2	gold 204	NT2	iron 72
NT2	europium 154	NT2	gold 205	NT2	krypton 100
NT2	europium 155	NT2	hafnium 181	NT2	krypton 85
NT2	europium 156	NT2	hafnium 182	NT2	krypton 87
NT2	europium 157	NT2	hafnium 183	NT2	krypton 88
NT2	europium 158	NT2	hafnium 184	NT2	krypton 89
NT2	europium 159	NT2	hafnium 187	NT2	krypton 90
NT2	europium 160	NT2	hafnium 188	NT2	krypton 91
NT2	europium 161	NT2	helium 6	NT2	krypton 92
NT2	europium 162	NT2	helium 7	NT2	krypton 93
NT2	europium 163	NT2	helium 8	NT2	krypton 94
NT2	europium 164	NT2	holmium 164	NT2	krypton 95
NT2	europium 165	NT2	holmium 166	NT2	krypton 97
NT2	europium 166	NT2	holmium 167	NT2	krypton 99
NT2	europium 167	NT2	holmium 168	NT2	lanthanum 138
NT2	fluorine 20	NT2	holmium 169	NT2	lanthanum 140
NT2	fluorine 21	NT2	holmium 170	NT2	lanthanum 141
NT2	fluorine 22	NT2	holmium 171	NT2	lanthanum 142
NT2	fluorine 23	NT2	holmium 172	NT2	lanthanum 143
NT2	fluorine 24	NT2	holmium 173	NT2	lanthanum 144
NT2	fluorine 25	NT2	holmium 174	NT2	lanthanum 145
NT2	fluorine 26	NT2	holmium 175	NT2	lanthanum 146
NT2	fluorine 27	NT2	indium 112	NT2	lanthanum 147
NT2	francium 220	NT2	indium 114	NT2	lanthanum 148
NT2	francium 222	NT2	indium 115	NT2	lanthanum 149
NT2	francium 223	NT2	indium 116	NT2	lanthanum 150
NT2	francium 224	NT2	indium 117	NT2	lanthanum 151
NT2	francium 225	NT2	indium 118	NT2	lanthanum 152
NT2	francium 226	NT2	indium 119	NT2	lanthanum 153
NT2	francium 227	NT2	indium 120	NT2	lanthanum 154
NT2	francium 228	NT2	indium 121	NT2	lanthanum 155
NT2	francium 229	NT2	indium 122	NT2	lead 209
NT2	francium 230	NT2	indium 123	NT2	lead 210
NT2	francium 231	NT2	indium 124	NT2	lead 211
NT2	gadolinium 159	NT2	indium 125	NT2	lead 212
NT2	gadolinium 161	NT2	indium 126	NT2	lead 213
NT2	gadolinium 162	NT2	indium 127	NT2	lead 214
NT2	gadolinium 163	NT2	indium 128	NT2	lithium 11
NT2	gadolinium 164	NT2	indium 129	NT2	lithium 13
NT2	gadolinium 165	NT2	indium 130	NT2	lithium 8
NT2	gadolinium 166	NT2	indium 131	NT2	lithium 9
NT2	gadolinium 168	NT2	indium 132	NT2	lutetium 176
NT2	gallium 70	NT2	indium 133	NT2	lutetium 177
NT2	gallium 72	NT2	indium 134	NT2	lutetium 178
NT2	gallium 73	NT2	indium 135	NT2	lutetium 179
NT2	gallium 74	NT2	iodine 126	NT2	lutetium 180
NT2	gallium 75	NT2	iodine 128	NT2	lutetium 181
NT2	gallium 76	NT2	iodine 129	NT2	lutetium 182
NT2	gallium 77	NT2	iodine 130	NT2	lutetium 183
NT2	gallium 78	NT2	iodine 131	NT2	lutetium 184
NT2	gallium 79	NT2	iodine 132	NT2	lutetium 187
NT2	gallium 80	NT2	iodine 133	NT2	magnesium 27
NT2	gallium 81	NT2	iodine 134	NT2	magnesium 28
NT2	gallium 82	NT2	iodine 135	NT2	magnesium 29
NT2	gallium 83	NT2	iodine 136	NT2	magnesium 30
NT2	gallium 84	NT2	iodine 137	NT2	magnesium 31
NT2	gallium 85	NT2	iodine 138	NT2	magnesium 32
NT2	gallium 86	NT2	iodine 139	NT2	magnesium 33
NT2	germanium 75	NT2	iodine 140	NT2	magnesium 34

NT2	magnesium 37	NT2	nickel 77	NT2	potassium 43
NT2	magnesium 38	NT2	niobium 100	NT2	potassium 44
NT2	magnesium 39	NT2	niobium 101	NT2	potassium 45
NT2	magnesium 40	NT2	niobium 102	NT2	potassium 46
NT2	manganese 56	NT2	niobium 103	NT2	potassium 47
NT2	manganese 57	NT2	niobium 104	NT2	potassium 48
NT2	manganese 58	NT2	niobium 105	NT2	potassium 49
NT2	manganese 59	NT2	niobium 106	NT2	potassium 50
NT2	manganese 60	NT2	niobium 107	NT2	potassium 51
NT2	manganese 61	NT2	niobium 108	NT2	potassium 52
NT2	manganese 62	NT2	niobium 109	NT2	potassium 53
NT2	manganese 63	NT2	niobium 110	NT2	potassium 54
NT2	manganese 66	NT2	niobium 111	NT2	potassium 55
NT2	manganese 67	NT2	niobium 112	NT2	praseodymium 142
NT2	manganese 68	NT2	niobium 113	NT2	praseodymium 143
NT2	manganese 69	NT2	niobium 94	NT2	praseodymium 144
NT2	mercury 203	NT2	niobium 95	NT2	praseodymium 145
NT2	mercury 205	NT2	niobium 96	NT2	praseodymium 146
NT2	mercury 206	NT2	niobium 97	NT2	praseodymium 147
NT2	molybdenum 101	NT2	niobium 98	NT2	praseodymium 148
NT2	molybdenum 102	NT2	niobium 99	NT2	praseodymium 149
NT2	molybdenum 103	NT2	nitrogen 16	NT2	praseodymium 150
NT2	molybdenum 104	NT2	nitrogen 17	NT2	praseodymium 151
NT2	molybdenum 105	NT2	nitrogen 18	NT2	praseodymium 152
NT2	molybdenum 106	NT2	nitrogen 19	NT2	praseodymium 153
NT2	molybdenum 107	NT2	nitrogen 20	NT2	praseodymium 154
NT2	molybdenum 108	NT2	nitrogen 22	NT2	praseodymium 155
NT2	molybdenum 109	NT2	nitrogen 23	NT2	praseodymium 156
NT2	molybdenum 110	NT2	osmium 191	NT2	praseodymium 157
NT2	molybdenum 111	NT2	osmium 193	NT2	praseodymium 158
NT2	molybdenum 112	NT2	osmium 194	NT2	praseodymium 159
NT2	molybdenum 113	NT2	osmium 195	NT2	promethium 146
NT2	molybdenum 114	NT2	osmium 196	NT2	promethium 147
NT2	molybdenum 115	NT2	osmium 197	NT2	promethium 148
NT2	molybdenum 99	NT2	osmium 199	NT2	promethium 149
NT2	neodymium 147	NT2	oxygen 19	NT2	promethium 150
NT2	neodymium 149	NT2	oxygen 20	NT2	promethium 151
NT2	neodymium 151	NT2	oxygen 21	NT2	promethium 152
NT2	neodymium 152	NT2	oxygen 22	NT2	promethium 153
NT2	neodymium 153	NT2	oxygen 23	NT2	promethium 154
NT2	neodymium 154	NT2	oxygen 24	NT2	promethium 155
NT2	neodymium 155	NT2	palladium 107	NT2	promethium 156
NT2	neodymium 156	NT2	palladium 109	NT2	promethium 157
NT2	neodymium 157	NT2	palladium 111	NT2	promethium 158
NT2	neodymium 158	NT2	palladium 112	NT2	promethium 159
NT2	neodymium 159	NT2	palladium 113	NT2	promethium 160
NT2	neodymium 160	NT2	palladium 114	NT2	promethium 161
NT2	neodymium 161	NT2	palladium 115	NT2	promethium 162
NT2	neon 23	NT2	palladium 116	NT2	promethium 163
NT2	neon 24	NT2	palladium 117	NT2	protactinium 230
NT2	neon 25	NT2	palladium 118	NT2	protactinium 232
NT2	neon 26	NT2	palladium 119	NT2	protactinium 233
NT2	neon 27	NT2	palladium 120	NT2	protactinium 234
NT2	neon 29	NT2	palladium 121	NT2	protactinium 235
NT2	neon 30	NT2	palladium 122	NT2	protactinium 236
NT2	neon 31	NT2	palladium 123	NT2	protactinium 237
NT2	neon 33	NT2	palladium 124	NT2	protactinium 238
NT2	neon 34	NT2	phosphorus 32	NT2	protactinium 239
NT2	neptunium 236	NT2	phosphorus 33	NT2	protactinium 240
NT2	neptunium 238	NT2	phosphorus 34	NT2	radium 225
NT2	neptunium 239	NT2	phosphorus 35	NT2	radium 227
NT2	neptunium 240	NT2	phosphorus 36	NT2	radium 228
NT2	neptunium 241	NT2	phosphorus 37	NT2	radium 229
NT2	neptunium 242	NT2	phosphorus 38	NT2	radium 230
NT2	neptunium 243	NT2	phosphorus 40	NT2	radium 231
NT2	neptunium 244	NT2	phosphorus 41	NT2	radium 232
NT2	neutron-rich isotopes	NT2	phosphorus 42	NT2	radon 221
NT2	nickel 63	NT2	platinum 197	NT2	radon 223
NT2	nickel 65	NT2	platinum 199	NT2	radon 224
NT2	nickel 66	NT2	platinum 200	NT2	radon 225
NT2	nickel 67	NT2	platinum 201	NT2	radon 226
NT2	nickel 69	NT2	plutonium 241	NT2	radon 227
NT2	nickel 70	NT2	plutonium 243	NT2	radon 228
NT2	nickel 71	NT2	plutonium 245	NT2	rhenium 186
NT2	nickel 72	NT2	plutonium 246	NT2	rhenium 187
NT2	nickel 73	NT2	polonium 215	NT2	rhenium 188
NT2	nickel 74	NT2	polonium 218	NT2	rhenium 189
NT2	nickel 75	NT2	potassium 40	NT2	rhenium 190
NT2	nickel 76	NT2	potassium 42	NT2	rhenium 191



NT2	rhenium 192	NT2	scandium 58	NT2	sulfur 39
NT2	rhenium 193	NT2	scandium 59	NT2	sulfur 40
NT2	rhenium 194	NT2	scandium 60	NT2	sulfur 43
NT2	rhodium 102	NT2	selenium 79	NT2	tantalum 180
NT2	rhodium 104	NT2	selenium 81	NT2	tantalum 182
NT2	rhodium 105	NT2	selenium 83	NT2	tantalum 183
NT2	rhodium 106	NT2	selenium 84	NT2	tantalum 184
NT2	rhodium 107	NT2	selenium 85	NT2	tantalum 185
NT2	rhodium 108	NT2	selenium 86	NT2	tantalum 186
NT2	rhodium 109	NT2	selenium 87	NT2	tantalum 187
NT2	rhodium 110	NT2	selenium 88	NT2	tantalum 188
NT2	rhodium 111	NT2	selenium 89	NT2	tantalum 189
NT2	rhodium 112	NT2	selenium 91	NT2	tantalum 190
NT2	rhodium 113	NT2	silicon 31	NT2	technetium 100
NT2	rhodium 114	NT2	silicon 32	NT2	technetium 101
NT2	rhodium 115	NT2	silicon 33	NT2	technetium 102
NT2	rhodium 116	NT2	silicon 34	NT2	technetium 103
NT2	rhodium 117	NT2	silicon 35	NT2	technetium 104
NT2	rhodium 118	NT2	silicon 36	NT2	technetium 105
NT2	rhodium 119	NT2	silicon 37	NT2	technetium 106
NT2	rhodium 120	NT2	silicon 38	NT2	technetium 107
NT2	rhodium 121	NT2	silicon 39	NT2	technetium 108
NT2	rhodium 122	NT2	silicon 43	NT2	technetium 109
NT2	rubidium 100	NT2	silicon 44	NT2	technetium 110
NT2	rubidium 84	NT2	silver 108	NT2	technetium 111
NT2	rubidium 86	NT2	silver 110	NT2	technetium 112
NT2	rubidium 87	NT2	silver 111	NT2	technetium 113
NT2	rubidium 88	NT2	silver 112	NT2	technetium 114
NT2	rubidium 89	NT2	silver 113	NT2	technetium 115
NT2	rubidium 90	NT2	silver 114	NT2	technetium 116
NT2	rubidium 91	NT2	silver 115	NT2	technetium 117
NT2	rubidium 92	NT2	silver 116	NT2	technetium 118
NT2	rubidium 93	NT2	silver 117	NT2	technetium 98
NT2	rubidium 94	NT2	silver 118	NT2	technetium 99
NT2	rubidium 95	NT2	silver 119	NT2	tellurium 127
NT2	rubidium 96	NT2	silver 120	NT2	tellurium 129
NT2	rubidium 97	NT2	silver 121	NT2	tellurium 131
NT2	rubidium 98	NT2	silver 122	NT2	tellurium 132
NT2	rubidium 99	NT2	silver 123	NT2	tellurium 133
NT2	ruthenium 103	NT2	silver 124	NT2	tellurium 134
NT2	ruthenium 105	NT2	silver 125	NT2	tellurium 135
NT2	ruthenium 106	NT2	silver 126	NT2	tellurium 136
NT2	ruthenium 107	NT2	silver 127	NT2	tellurium 137
NT2	ruthenium 108	NT2	silver 128	NT2	tellurium 138
NT2	ruthenium 109	NT2	silver 129	NT2	tellurium 139
NT2	ruthenium 110	NT2	silver 130	NT2	tellurium 140
NT2	ruthenium 111	NT2	sodium 24	NT2	tellurium 141
NT2	ruthenium 112	NT2	sodium 25	NT2	tellurium 142
NT2	ruthenium 113	NT2	sodium 26	NT2	terbium 156
NT2	ruthenium 114	NT2	sodium 27	NT2	terbium 158
NT2	ruthenium 115	NT2	sodium 28	NT2	terbium 160
NT2	ruthenium 116	NT2	sodium 29	NT2	terbium 161
NT2	ruthenium 117	NT2	sodium 30	NT2	terbium 162
NT2	ruthenium 118	NT2	sodium 31	NT2	terbium 163
NT2	ruthenium 119	NT2	sodium 32	NT2	terbium 164
NT2	ruthenium 120	NT2	sodium 33	NT2	terbium 165
NT2	samarium 151	NT2	sodium 34	NT2	terbium 166
NT2	samarium 153	NT2	sodium 35	NT2	terbium 167
NT2	samarium 155	NT2	sodium 37	NT2	terbium 168
NT2	samarium 156	NT2	strontium 100	NT2	terbium 169
NT2	samarium 157	NT2	strontium 101	NT2	terbium 170
NT2	samarium 158	NT2	strontium 102	NT2	terbium 171
NT2	samarium 159	NT2	strontium 103	NT2	thallium 204
NT2	samarium 160	NT2	strontium 104	NT2	thallium 206
NT2	samarium 161	NT2	strontium 105	NT2	thallium 207
NT2	samarium 162	NT2	strontium 89	NT2	thallium 208
NT2	samarium 163	NT2	strontium 90	NT2	thallium 209
NT2	samarium 164	NT2	strontium 91	NT2	thallium 210
NT2	samarium 165	NT2	strontium 92	NT2	thallium 211
NT2	scandium 46	NT2	strontium 93	NT2	thallium 212
NT2	scandium 47	NT2	strontium 94	NT2	thorium 231
NT2	scandium 48	NT2	strontium 95	NT2	thorium 233
NT2	scandium 49	NT2	strontium 96	NT2	thorium 234
NT2	scandium 50	NT2	strontium 97	NT2	thorium 235
NT2	scandium 51	NT2	strontium 98	NT2	thorium 236
NT2	scandium 52	NT2	strontium 99	NT2	thorium 237
NT2	scandium 53	NT2	sulfur 35	NT2	thulium 168
NT2	scandium 56	NT2	sulfur 37	NT2	thulium 170
NT2	scandium 57	NT2	sulfur 38	NT2	thulium 171

NT2 thulium 172  
 NT2 thulium 173  
 NT2 thulium 174  
 NT2 thulium 175  
 NT2 thulium 176  
 NT2 thulium 177  
 NT2 thulium 178  
 NT2 thulium 179  
 NT2 tin 121  
 NT2 tin 123  
 NT2 tin 125  
 NT2 tin 126  
 NT2 tin 127  
 NT2 tin 128  
 NT2 tin 129  
 NT2 tin 130  
 NT2 tin 131  
 NT2 tin 132  
 NT2 tin 133  
 NT2 tin 134  
 NT2 tin 135  
 NT2 tin 136  
 NT2 tin 137  
 NT2 titanium 51  
 NT2 titanium 52  
 NT2 titanium 53  
 NT2 titanium 54  
 NT2 titanium 55  
 NT2 titanium 56  
 NT2 titanium 58  
 NT2 titanium 59  
 NT2 titanium 60  
 NT2 titanium 61  
 NT2 titanium 62  
 NT2 titanium 63  
 NT2 tritium  
 NT2 tungsten 185  
 NT2 tungsten 187  
 NT2 tungsten 188  
 NT2 tungsten 189  
 NT2 tungsten 191  
 NT2 uranium 237  
 NT2 uranium 239  
 NT2 uranium 240  
 NT2 uranium 241  
 NT2 uranium 242  
 NT2 vanadium 50  
 NT2 vanadium 52  
 NT2 vanadium 53  
 NT2 vanadium 54  
 NT2 vanadium 55  
 NT2 vanadium 56  
 NT2 vanadium 57  
 NT2 vanadium 58  
 NT2 vanadium 61  
 NT2 vanadium 62  
 NT2 vanadium 63  
 NT2 vanadium 64  
 NT2 vanadium 65  
 NT2 xenon 133  
 NT2 xenon 135  
 NT2 xenon 137  
 NT2 xenon 138  
 NT2 xenon 139  
 NT2 xenon 140  
 NT2 xenon 141  
 NT2 xenon 142  
 NT2 xenon 143  
 NT2 xenon 144  
 NT2 xenon 145  
 NT2 xenon 147  
 NT2 ytterbium 175  
 NT2 ytterbium 177  
 NT2 ytterbium 178  
 NT2 ytterbium 179  
 NT2 ytterbium 180  
 NT2 ytterbium 181  
 NT2 yttrium 100  
 NT2 yttrium 101

NT2 yttrium 102  
 NT2 yttrium 103  
 NT2 yttrium 104  
 NT2 yttrium 105  
 NT2 yttrium 106  
 NT2 yttrium 107  
 NT2 yttrium 108  
 NT2 yttrium 90  
 NT2 yttrium 91  
 NT2 yttrium 92  
 NT2 yttrium 93  
 NT2 yttrium 94  
 NT2 yttrium 95  
 NT2 yttrium 96  
 NT2 yttrium 97  
 NT2 yttrium 98  
 NT2 yttrium 99  
 NT2 zinc 69  
 NT2 zinc 71  
 NT2 zinc 72  
 NT2 zinc 73  
 NT2 zinc 74  
 NT2 zinc 75  
 NT2 zinc 76  
 NT2 zinc 77  
 NT2 zinc 78  
 NT2 zinc 79  
 NT2 zinc 80  
 NT2 zinc 81  
 NT2 zinc 82  
 NT2 zinc 83  
 NT2 zirconium 100  
 NT2 zirconium 101  
 NT2 zirconium 102  
 NT2 zirconium 103  
 NT2 zirconium 104  
 NT2 zirconium 105  
 NT2 zirconium 106  
 NT2 zirconium 107  
 NT2 zirconium 108  
 NT2 zirconium 109  
 NT2 zirconium 110  
 NT2 zirconium 93  
 NT2 zirconium 95  
 NT2 zirconium 97  
 NT2 zirconium 98  
 NT2 zirconium 99  
 NT1 beta-plus decay radioisotopes  
 NT2 aluminium 22  
 NT2 aluminium 23  
 NT2 aluminium 24  
 NT2 aluminium 25  
 NT2 aluminium 26  
 NT2 americium 235  
 NT2 americium 236  
 NT2 antimony 104  
 NT2 antimony 105  
 NT2 antimony 108  
 NT2 antimony 110  
 NT2 antimony 111  
 NT2 antimony 112  
 NT2 antimony 113  
 NT2 antimony 114  
 NT2 antimony 115  
 NT2 antimony 116  
 NT2 antimony 117  
 NT2 antimony 118  
 NT2 antimony 120  
 NT2 antimony 122  
 NT2 argon 31  
 NT2 argon 32  
 NT2 argon 33  
 NT2 argon 34  
 NT2 argon 35  
 NT2 arsenic 66  
 NT2 arsenic 67  
 NT2 arsenic 68  
 NT2 arsenic 69  
 NT2 arsenic 70

NT2 arsenic 71  
 NT2 arsenic 72  
 NT2 arsenic 74  
 NT2 astatine 205  
 NT2 astatine 206  
 NT2 barium 114  
 NT2 barium 115  
 NT2 barium 116  
 NT2 barium 117  
 NT2 barium 118  
 NT2 barium 119  
 NT2 barium 120  
 NT2 barium 121  
 NT2 barium 122  
 NT2 barium 123  
 NT2 barium 124  
 NT2 barium 125  
 NT2 barium 126  
 NT2 barium 127  
 NT2 barium 129  
 NT2 berkelium 236  
 NT2 berkelium 238  
 NT2 bismuth 194  
 NT2 bismuth 197  
 NT2 bismuth 200  
 NT2 bismuth 202  
 NT2 bismuth 203  
 NT2 bismuth 205  
 NT2 bismuth 206  
 NT2 bismuth 207  
 NT2 boron 8  
 NT2 bromine 69  
 NT2 bromine 70  
 NT2 bromine 71  
 NT2 bromine 72  
 NT2 bromine 73  
 NT2 bromine 74  
 NT2 bromine 75  
 NT2 bromine 76  
 NT2 bromine 77  
 NT2 bromine 78  
 NT2 bromine 80  
 NT2 cadmium 100  
 NT2 cadmium 101  
 NT2 cadmium 102  
 NT2 cadmium 103  
 NT2 cadmium 104  
 NT2 cadmium 105  
 NT2 cadmium 107  
 NT2 cadmium 97  
 NT2 cadmium 98  
 NT2 cadmium 99  
 NT2 calcium 36  
 NT2 calcium 37  
 NT2 calcium 38  
 NT2 calcium 39  
 NT2 carbon 10  
 NT2 carbon 11  
 NT2 carbon 9  
 NT2 cerium 121  
 NT2 cerium 125  
 NT2 cerium 127  
 NT2 cerium 128  
 NT2 cerium 129  
 NT2 cerium 130  
 NT2 cerium 131  
 NT2 cerium 132  
 NT2 cerium 133  
 NT2 cerium 135  
 NT2 cerium 137  
 NT2 cesium 114  
 NT2 cesium 115  
 NT2 cesium 116  
 NT2 cesium 117  
 NT2 cesium 118  
 NT2 cesium 119  
 NT2 cesium 120  
 NT2 cesium 121  
 NT2 cesium 122

NT2 cesium 123	NT2 europium 152	NT2 iodine 117
NT2 cesium 124	NT2 fluorine 17	NT2 iodine 118
NT2 cesium 125	NT2 fluorine 18	NT2 iodine 119
NT2 cesium 126	NT2 gadolinium 135	NT2 iodine 120
NT2 cesium 127	NT2 gadolinium 137	NT2 iodine 121
NT2 cesium 128	NT2 gadolinium 139	NT2 iodine 122
NT2 cesium 129	NT2 gadolinium 142	NT2 iodine 124
NT2 cesium 130	NT2 gadolinium 143	NT2 iodine 126
NT2 cesium 132	NT2 gadolinium 144	NT2 iodine 128
NT2 chlorine 31	NT2 gadolinium 145	NT2 iridium 178
NT2 chlorine 32	NT2 gadolinium 146	NT2 iridium 179
NT2 chlorine 33	NT2 gadolinium 147	NT2 iridium 180
NT2 chlorine 34	NT2 gallium 60	NT2 iridium 181
NT2 chlorine 36	NT2 gallium 62	NT2 iridium 182
NT2 chromium 42	NT2 gallium 63	NT2 iridium 183
NT2 chromium 45	NT2 gallium 64	NT2 iridium 184
NT2 chromium 46	NT2 gallium 65	NT2 iridium 185
NT2 chromium 47	NT2 gallium 66	NT2 iridium 186
NT2 chromium 49	NT2 gallium 68	NT2 iridium 188
NT2 cobalt 52	NT2 germanium 61	NT2 iridium 190
NT2 cobalt 53	NT2 germanium 63	NT2 iron 45
NT2 cobalt 54	NT2 germanium 64	NT2 iron 46
NT2 cobalt 55	NT2 germanium 65	NT2 iron 49
NT2 cobalt 56	NT2 germanium 66	NT2 iron 51
NT2 cobalt 58	NT2 germanium 67	NT2 iron 52
NT2 copper 56	NT2 germanium 69	NT2 iron 53
NT2 copper 57	NT2 gold 182	NT2 krypton 69
NT2 copper 58	NT2 gold 184	NT2 krypton 71
NT2 copper 59	NT2 gold 185	NT2 krypton 72
NT2 copper 60	NT2 gold 186	NT2 krypton 73
NT2 copper 61	NT2 gold 187	NT2 krypton 74
NT2 copper 62	NT2 gold 188	NT2 krypton 75
NT2 copper 64	NT2 gold 189	NT2 krypton 77
NT2 curium 232	NT2 gold 190	NT2 krypton 79
NT2 dysprosium 140	NT2 gold 192	NT2 lanthanum 121
NT2 dysprosium 145	NT2 gold 194	NT2 lanthanum 125
NT2 dysprosium 146	NT2 gold 196	NT2 lanthanum 126
NT2 dysprosium 147	NT2 hafnium 154	NT2 lanthanum 127
NT2 dysprosium 148	NT2 hafnium 155	NT2 lanthanum 128
NT2 dysprosium 149	NT2 hafnium 162	NT2 lanthanum 129
NT2 dysprosium 150	NT2 hafnium 163	NT2 lanthanum 130
NT2 dysprosium 151	NT2 hafnium 166	NT2 lanthanum 131
NT2 dysprosium 152	NT2 hafnium 167	NT2 lanthanum 132
NT2 dysprosium 153	NT2 hafnium 168	NT2 lanthanum 133
NT2 dysprosium 155	NT2 hafnium 169	NT2 lanthanum 134
NT2 dysprosium 157	NT2 holmium 145	NT2 lanthanum 135
NT2 erbium 145	NT2 holmium 146	NT2 lanthanum 136
NT2 erbium 146	NT2 holmium 147	NT2 lead 187
NT2 erbium 147	NT2 holmium 148	NT2 lead 188
NT2 erbium 148	NT2 holmium 149	NT2 lead 189
NT2 erbium 149	NT2 holmium 150	NT2 lead 190
NT2 erbium 150	NT2 holmium 151	NT2 lead 191
NT2 erbium 151	NT2 holmium 152	NT2 lead 192
NT2 erbium 152	NT2 holmium 153	NT2 lead 193
NT2 erbium 153	NT2 holmium 154	NT2 lead 194
NT2 erbium 154	NT2 holmium 155	NT2 lead 195
NT2 erbium 155	NT2 holmium 156	NT2 lead 199
NT2 erbium 156	NT2 holmium 157	NT2 lead 201
NT2 erbium 157	NT2 holmium 158	NT2 lutetium 153
NT2 erbium 158	NT2 holmium 160	NT2 lutetium 161
NT2 erbium 159	NT2 holmium 162	NT2 lutetium 162
NT2 erbium 161	NT2 indium 100	NT2 lutetium 163
NT2 erbium 163	NT2 indium 103	NT2 lutetium 164
NT2 europium 132	NT2 indium 104	NT2 lutetium 165
NT2 europium 134	NT2 indium 105	NT2 lutetium 166
NT2 europium 135	NT2 indium 106	NT2 lutetium 167
NT2 europium 136	NT2 indium 107	NT2 lutetium 168
NT2 europium 138	NT2 indium 108	NT2 lutetium 169
NT2 europium 139	NT2 indium 109	NT2 lutetium 170
NT2 europium 140	NT2 indium 110	NT2 lutetium 171
NT2 europium 141	NT2 indium 112	NT2 lutetium 174
NT2 europium 142	NT2 indium 114	NT2 magnesium 20
NT2 europium 143	NT2 iodine 110	NT2 magnesium 21
NT2 europium 144	NT2 iodine 111	NT2 magnesium 22
NT2 europium 145	NT2 iodine 112	NT2 magnesium 23
NT2 europium 146	NT2 iodine 113	NT2 manganese 48
NT2 europium 147	NT2 iodine 114	NT2 manganese 49
NT2 europium 148	NT2 iodine 115	NT2 manganese 50
NT2 europium 150	NT2 iodine 116	NT2 manganese 51

NT2 manganese 52  
NT2 mercury 179  
NT2 mercury 181  
NT2 mercury 182  
NT2 mercury 183  
NT2 mercury 184  
NT2 mercury 185  
NT2 mercury 186  
NT2 mercury 187  
NT2 mercury 188  
NT2 mercury 191  
NT2 mercury 193  
NT2 molybdenum 86  
NT2 molybdenum 87  
NT2 molybdenum 88  
NT2 molybdenum 89  
NT2 molybdenum 90  
NT2 molybdenum 91  
NT2 neodymium 127  
NT2 neodymium 128  
NT2 neodymium 129  
NT2 neodymium 130  
NT2 neodymium 131  
NT2 neodymium 132  
NT2 neodymium 133  
NT2 neodymium 134  
NT2 neodymium 135  
NT2 neodymium 136  
NT2 neodymium 137  
NT2 neodymium 138  
NT2 neodymium 139  
NT2 neodymium 141  
NT2 neon 17  
NT2 neon 18  
NT2 neon 19  
NT2 neptunium 234  
NT2 nickel 49  
NT2 nickel 50  
NT2 nickel 52  
NT2 nickel 53  
NT2 nickel 55  
NT2 nickel 56  
NT2 nickel 57  
NT2 niobium 83  
NT2 niobium 84  
NT2 niobium 85  
NT2 niobium 87  
NT2 niobium 88  
NT2 niobium 89  
NT2 niobium 90  
NT2 niobium 92  
NT2 nitrogen 12  
NT2 nitrogen 13  
NT2 osmium 172  
NT2 osmium 173  
NT2 osmium 174  
NT2 osmium 175  
NT2 osmium 176  
NT2 osmium 177  
NT2 osmium 178  
NT2 osmium 179  
NT2 osmium 181  
NT2 osmium 183  
NT2 oxygen 13  
NT2 oxygen 14  
NT2 oxygen 15  
NT2 palladium 101  
NT2 palladium 93  
NT2 palladium 94  
NT2 palladium 95  
NT2 palladium 97  
NT2 palladium 98  
NT2 palladium 99  
NT2 phosphorus 26  
NT2 phosphorus 28  
NT2 phosphorus 29  
NT2 phosphorus 30  
NT2 platinum 174  
NT2 platinum 182

NT2 platinum 183  
NT2 platinum 184  
NT2 platinum 185  
NT2 platinum 187  
NT2 platinum 189  
NT2 polonium 198  
NT2 polonium 199  
NT2 polonium 200  
NT2 polonium 201  
NT2 polonium 202  
NT2 polonium 203  
NT2 polonium 205  
NT2 polonium 207  
NT2 potassium 35  
NT2 potassium 36  
NT2 potassium 37  
NT2 potassium 38  
NT2 potassium 40  
NT2 praseodymium 126  
NT2 praseodymium 127  
NT2 praseodymium 129  
NT2 praseodymium 130  
NT2 praseodymium 131  
NT2 praseodymium 132  
NT2 praseodymium 133  
NT2 praseodymium 134  
NT2 praseodymium 135  
NT2 praseodymium 136  
NT2 praseodymium 137  
NT2 praseodymium 138  
NT2 praseodymium 139  
NT2 praseodymium 140  
NT2 promethium 132  
NT2 promethium 133  
NT2 promethium 134  
NT2 promethium 135  
NT2 promethium 136  
NT2 promethium 137  
NT2 promethium 138  
NT2 promethium 139  
NT2 promethium 140  
NT2 promethium 141  
NT2 promethium 142  
NT2 protactinium 230  
NT2 radon 207  
NT2 radon 209  
NT2 rhenium 165  
NT2 rhenium 170  
NT2 rhenium 171  
NT2 rhenium 172  
NT2 rhenium 174  
NT2 rhenium 175  
NT2 rhenium 176  
NT2 rhenium 177  
NT2 rhenium 178  
NT2 rhenium 179  
NT2 rhenium 180  
NT2 rhenium 182  
NT2 rhodium 100  
NT2 rhodium 102  
NT2 rhodium 91  
NT2 rhodium 92  
NT2 rhodium 93  
NT2 rhodium 94  
NT2 rhodium 95  
NT2 rhodium 96  
NT2 rhodium 97  
NT2 rhodium 98  
NT2 rhodium 99  
NT2 rubidium 73  
NT2 rubidium 74  
NT2 rubidium 75  
NT2 rubidium 76  
NT2 rubidium 77  
NT2 rubidium 78  
NT2 rubidium 79  
NT2 rubidium 80  
NT2 rubidium 81  
NT2 rubidium 82

NT2 rubidium 84  
NT2 ruthenium 88  
NT2 ruthenium 89  
NT2 ruthenium 92  
NT2 ruthenium 93  
NT2 ruthenium 95  
NT2 samarium 132  
NT2 samarium 133  
NT2 samarium 134  
NT2 samarium 135  
NT2 samarium 136  
NT2 samarium 137  
NT2 samarium 138  
NT2 samarium 139  
NT2 samarium 140  
NT2 samarium 141  
NT2 samarium 142  
NT2 samarium 143  
NT2 scandium 40  
NT2 scandium 41  
NT2 scandium 42  
NT2 scandium 43  
NT2 scandium 44  
NT2 selenium 65  
NT2 selenium 67  
NT2 selenium 68  
NT2 selenium 69  
NT2 selenium 70  
NT2 selenium 71  
NT2 selenium 73  
NT2 silicon 24  
NT2 silicon 25  
NT2 silicon 26  
NT2 silicon 27  
NT2 silver 100  
NT2 silver 101  
NT2 silver 102  
NT2 silver 103  
NT2 silver 104  
NT2 silver 105  
NT2 silver 106  
NT2 silver 108  
NT2 silver 94  
NT2 silver 96  
NT2 silver 98  
NT2 silver 99  
NT2 sodium 20  
NT2 sodium 21  
NT2 sodium 22  
NT2 strontium 75  
NT2 strontium 76  
NT2 strontium 77  
NT2 strontium 78  
NT2 strontium 79  
NT2 strontium 80  
NT2 strontium 81  
NT2 strontium 83  
NT2 sulfur 28  
NT2 sulfur 29  
NT2 sulfur 30  
NT2 sulfur 31  
NT2 tantalum 165  
NT2 tantalum 166  
NT2 tantalum 167  
NT2 tantalum 168  
NT2 tantalum 169  
NT2 tantalum 170  
NT2 tantalum 171  
NT2 tantalum 172  
NT2 tantalum 173  
NT2 tantalum 174  
NT2 tantalum 175  
NT2 tantalum 176  
NT2 tantalum 177  
NT2 tantalum 178  
NT2 technetium 88  
NT2 technetium 89  
NT2 technetium 90  
NT2 technetium 91

NT2	technetium 92	NT2	tungsten 171	NT2	antimony 103
NT2	technetium 93	NT2	tungsten 172	NT2	antimony 107
NT2	technetium 94	NT2	tungsten 173	NT2	antimony 109
NT2	technetium 95	NT2	tungsten 175	NT2	antimony 110
NT2	technetium 96	NT2	tungsten 177	NT2	antimony 111
NT2	tellurium 107	NT2	tungsten 190	NT2	antimony 112
NT2	tellurium 108	NT2	vanadium 42	NT2	antimony 113
NT2	tellurium 109	NT2	vanadium 43	NT2	antimony 114
NT2	tellurium 110	NT2	vanadium 44	NT2	antimony 115
NT2	tellurium 111	NT2	vanadium 45	NT2	antimony 116
NT2	tellurium 112	NT2	vanadium 46	NT2	antimony 117
NT2	tellurium 113	NT2	vanadium 47	NT2	antimony 118
NT2	tellurium 114	NT2	vanadium 48	NT2	antimony 119
NT2	tellurium 115	NT2	xenon 110	NT2	antimony 120
NT2	tellurium 116	NT2	xenon 111	NT2	antimony 122
NT2	tellurium 117	NT2	xenon 112	NT2	argon 37
NT2	tellurium 118	NT2	xenon 113	NT2	arsenic 67
NT2	tellurium 119	NT2	xenon 114	NT2	arsenic 70
NT2	tellurium 121	NT2	xenon 115	NT2	arsenic 71
NT2	terbium 139	NT2	xenon 116	NT2	arsenic 72
NT2	terbium 141	NT2	xenon 117	NT2	arsenic 73
NT2	terbium 143	NT2	xenon 118	NT2	arsenic 74
NT2	terbium 144	NT2	xenon 119	NT2	astatine 195
NT2	terbium 145	NT2	xenon 120	NT2	astatine 197
NT2	terbium 146	NT2	xenon 121	NT2	astatine 199
NT2	terbium 147	NT2	xenon 122	NT2	astatine 200
NT2	terbium 148	NT2	xenon 123	NT2	astatine 201
NT2	terbium 149	NT2	xenon 125	NT2	astatine 202
NT2	terbium 150	NT2	ytterbium 153	NT2	astatine 203
NT2	terbium 151	NT2	ytterbium 158	NT2	astatine 204
NT2	terbium 152	NT2	ytterbium 160	NT2	astatine 205
NT2	terbium 153	NT2	ytterbium 161	NT2	astatine 206
NT2	terbium 154	NT2	ytterbium 162	NT2	astatine 207
NT2	terbium 156	NT2	ytterbium 163	NT2	astatine 208
NT2	thallium 182	NT2	ytterbium 165	NT2	astatine 209
NT2	thallium 184	NT2	ytterbium 167	NT2	astatine 210
NT2	thallium 186	NT2	yttrium 79	NT2	astatine 211
NT2	thallium 188	NT2	yttrium 80	NT2	barium 117
NT2	thallium 189	NT2	yttrium 81	NT2	barium 119
NT2	thallium 190	NT2	yttrium 82	NT2	barium 120
NT2	thallium 191	NT2	yttrium 83	NT2	barium 121
NT2	thallium 192	NT2	yttrium 84	NT2	barium 122
NT2	thallium 193	NT2	yttrium 85	NT2	barium 123
NT2	thallium 194	NT2	yttrium 86	NT2	barium 124
NT2	thallium 195	NT2	yttrium 87	NT2	barium 125
NT2	thallium 196	NT2	yttrium 88	NT2	barium 126
NT2	thallium 197	NT2	zinc 57	NT2	barium 127
NT2	thallium 198	NT2	zinc 59	NT2	barium 128
NT2	thallium 200	NT2	zinc 60	NT2	barium 129
NT2	thulium 148	NT2	zinc 61	NT2	barium 131
NT2	thulium 156	NT2	zinc 62	NT2	barium 133
NT2	thulium 157	NT2	zinc 63	NT2	berkelium 235
NT2	thulium 158	NT2	zinc 65	NT2	berkelium 236
NT2	thulium 159	NT2	zirconium 81	NT2	berkelium 237
NT2	thulium 160	NT2	zirconium 82	NT2	berkelium 238
NT2	thulium 161	NT2	zirconium 83	NT2	berkelium 239
NT2	thulium 162	NT2	zirconium 84	NT2	berkelium 240
NT2	thulium 163	NT2	zirconium 85	NT2	berkelium 242
NT2	thulium 164	NT2	zirconium 87	NT2	berkelium 243
NT2	thulium 165	NT2	zirconium 89	NT2	berkelium 244
NT2	thulium 166	NT1	electron capture radioisotopes	NT2	berkelium 245
NT2	tin 100	NT2	actinium 214	NT2	berkelium 246
NT2	tin 102	NT2	actinium 215	NT2	berkelium 248
NT2	tin 103	NT2	actinium 222	NT2	beryllium 7
NT2	tin 105	NT2	actinium 223	NT2	bismuth 190
NT2	tin 106	NT2	actinium 224	NT2	bismuth 191
NT2	tin 107	NT2	actinium 226	NT2	bismuth 192
NT2	tin 108	NT2	americium 231	NT2	bismuth 193
NT2	tin 109	NT2	americium 232	NT2	bismuth 194
NT2	tin 111	NT2	americium 233	NT2	bismuth 195
NT2	titanium 39	NT2	americium 234	NT2	bismuth 196
NT2	titanium 40	NT2	americium 235	NT2	bismuth 197
NT2	titanium 41	NT2	americium 236	NT2	bismuth 198
NT2	titanium 42	NT2	americium 237	NT2	bismuth 199
NT2	titanium 43	NT2	americium 238	NT2	bismuth 200
NT2	titanium 45	NT2	americium 239	NT2	bismuth 201
NT2	tungsten 168	NT2	americium 240	NT2	bismuth 202
NT2	tungsten 169	NT2	americium 242	NT2	bismuth 203
NT2	tungsten 170	NT2	americium 244	NT2	bismuth 204

NT2	bismuth 205	NT2	copper 61	NT2	fermium 253
NT2	bismuth 206	NT2	copper 62	NT2	francium 204
NT2	bismuth 207	NT2	copper 64	NT2	francium 206
NT2	bismuth 208	NT2	curium 232	NT2	francium 207
NT2	bromine 67	NT2	curium 233	NT2	francium 208
NT2	bromine 68	NT2	curium 234	NT2	francium 209
NT2	bromine 71	NT2	curium 235	NT2	francium 210
NT2	bromine 73	NT2	curium 238	NT2	francium 211
NT2	bromine 74	NT2	curium 239	NT2	francium 212
NT2	bromine 75	NT2	curium 241	NT2	francium 213
NT2	bromine 76	NT2	dubnium 258	NT2	gadolinium 135
NT2	bromine 77	NT2	dysprosium 138	NT2	gadolinium 141
NT2	bromine 78	NT2	dysprosium 139	NT2	gadolinium 143
NT2	bromine 80	NT2	dysprosium 140	NT2	gadolinium 144
NT2	cadmium 100	NT2	dysprosium 141	NT2	gadolinium 145
NT2	cadmium 101	NT2	dysprosium 143	NT2	gadolinium 146
NT2	cadmium 102	NT2	dysprosium 144	NT2	gadolinium 147
NT2	cadmium 103	NT2	dysprosium 145	NT2	gadolinium 149
NT2	cadmium 104	NT2	dysprosium 147	NT2	gadolinium 151
NT2	cadmium 105	NT2	dysprosium 148	NT2	gadolinium 153
NT2	cadmium 107	NT2	dysprosium 149	NT2	gallium 62
NT2	cadmium 109	NT2	dysprosium 150	NT2	gallium 63
NT2	cadmium 96	NT2	dysprosium 151	NT2	gallium 64
NT2	cadmium 97	NT2	dysprosium 152	NT2	gallium 65
NT2	calcium 41	NT2	dysprosium 153	NT2	gallium 66
NT2	californium 241	NT2	dysprosium 155	NT2	gallium 67
NT2	californium 243	NT2	dysprosium 157	NT2	gallium 68
NT2	californium 245	NT2	dysprosium 159	NT2	gallium 70
NT2	californium 247	NT2	einsteinium 240	NT2	germanium 63
NT2	cerium 119	NT2	einsteinium 241	NT2	germanium 64
NT2	cerium 120	NT2	einsteinium 242	NT2	germanium 65
NT2	cerium 121	NT2	einsteinium 244	NT2	germanium 66
NT2	cerium 122	NT2	einsteinium 245	NT2	germanium 67
NT2	cerium 123	NT2	einsteinium 246	NT2	germanium 68
NT2	cerium 126	NT2	einsteinium 247	NT2	germanium 69
NT2	cerium 127	NT2	einsteinium 248	NT2	germanium 71
NT2	cerium 128	NT2	einsteinium 249	NT2	gold 180
NT2	cerium 129	NT2	einsteinium 250	NT2	gold 181
NT2	cerium 130	NT2	einsteinium 251	NT2	gold 182
NT2	cerium 131	NT2	einsteinium 252	NT2	gold 183
NT2	cerium 132	NT2	einsteinium 254	NT2	gold 184
NT2	cerium 133	NT2	erbium 143	NT2	gold 185
NT2	cerium 134	NT2	erbium 144	NT2	gold 186
NT2	cerium 135	NT2	erbium 146	NT2	gold 187
NT2	cerium 137	NT2	erbium 147	NT2	gold 188
NT2	cerium 139	NT2	erbium 149	NT2	gold 189
NT2	cesium 114	NT2	erbium 150	NT2	gold 190
NT2	cesium 115	NT2	erbium 151	NT2	gold 191
NT2	cesium 116	NT2	erbium 152	NT2	gold 192
NT2	cesium 117	NT2	erbium 153	NT2	gold 193
NT2	cesium 118	NT2	erbium 154	NT2	gold 194
NT2	cesium 119	NT2	erbium 155	NT2	gold 195
NT2	cesium 120	NT2	erbium 156	NT2	gold 196
NT2	cesium 121	NT2	erbium 157	NT2	hafnium 154
NT2	cesium 122	NT2	erbium 158	NT2	hafnium 155
NT2	cesium 123	NT2	erbium 159	NT2	hafnium 157
NT2	cesium 124	NT2	erbium 160	NT2	hafnium 158
NT2	cesium 125	NT2	erbium 161	NT2	hafnium 159
NT2	cesium 126	NT2	erbium 163	NT2	hafnium 160
NT2	cesium 127	NT2	erbium 165	NT2	hafnium 162
NT2	cesium 128	NT2	europium 132	NT2	hafnium 163
NT2	cesium 129	NT2	europium 133	NT2	hafnium 166
NT2	cesium 130	NT2	europium 139	NT2	hafnium 167
NT2	cesium 131	NT2	europium 140	NT2	hafnium 168
NT2	cesium 132	NT2	europium 141	NT2	hafnium 169
NT2	cesium 134	NT2	europium 142	NT2	hafnium 170
NT2	chlorine 36	NT2	europium 143	NT2	hafnium 171
NT2	chromium 48	NT2	europium 144	NT2	hafnium 172
NT2	chromium 49	NT2	europium 145	NT2	hafnium 173
NT2	chromium 51	NT2	europium 146	NT2	hafnium 175
NT2	cobalt 49	NT2	europium 147	NT2	holmium 142
NT2	cobalt 51	NT2	europium 148	NT2	holmium 143
NT2	cobalt 55	NT2	europium 149	NT2	holmium 145
NT2	cobalt 56	NT2	europium 150	NT2	holmium 147
NT2	cobalt 57	NT2	europium 152	NT2	holmium 149
NT2	cobalt 58	NT2	europium 154	NT2	holmium 150
NT2	copper 55	NT2	fermium 247	NT2	holmium 151
NT2	copper 58	NT2	fermium 249	NT2	holmium 152
NT2	copper 60	NT2	fermium 251	NT2	holmium 153

NT2	holmium 154	NT2	lanthanum 124	NT2	mercury 178
NT2	holmium 155	NT2	lanthanum 125	NT2	mercury 179
NT2	holmium 156	NT2	lanthanum 126	NT2	mercury 180
NT2	holmium 157	NT2	lanthanum 127	NT2	mercury 181
NT2	holmium 158	NT2	lanthanum 128	NT2	mercury 182
NT2	holmium 159	NT2	lanthanum 129	NT2	mercury 183
NT2	holmium 160	NT2	lanthanum 130	NT2	mercury 184
NT2	holmium 161	NT2	lanthanum 131	NT2	mercury 185
NT2	holmium 162	NT2	lanthanum 132	NT2	mercury 186
NT2	holmium 163	NT2	lanthanum 133	NT2	mercury 187
NT2	holmium 164	NT2	lanthanum 134	NT2	mercury 188
NT2	indium 102	NT2	lanthanum 135	NT2	mercury 189
NT2	indium 103	NT2	lanthanum 136	NT2	mercury 190
NT2	indium 104	NT2	lanthanum 137	NT2	mercury 191
NT2	indium 105	NT2	lanthanum 138	NT2	mercury 192
NT2	indium 106	NT2	lawrencium 251	NT2	mercury 193
NT2	indium 107	NT2	lawrencium 254	NT2	mercury 194
NT2	indium 108	NT2	lawrencium 255	NT2	mercury 195
NT2	indium 109	NT2	lawrencium 256	NT2	mercury 197
NT2	indium 110	NT2	lead 186	NT2	molybdenum 83
NT2	indium 111	NT2	lead 187	NT2	molybdenum 87
NT2	indium 112	NT2	lead 188	NT2	molybdenum 88
NT2	indium 114	NT2	lead 189	NT2	molybdenum 89
NT2	indium 97	NT2	lead 190	NT2	molybdenum 90
NT2	indium 98	NT2	lead 191	NT2	molybdenum 91
NT2	indium 99	NT2	lead 192	NT2	molybdenum 93
NT2	iodine 110	NT2	lead 193	NT2	neodymium 125
NT2	iodine 111	NT2	lead 194	NT2	neodymium 126
NT2	iodine 112	NT2	lead 195	NT2	neodymium 129
NT2	iodine 113	NT2	lead 196	NT2	neodymium 130
NT2	iodine 114	NT2	lead 197	NT2	neodymium 132
NT2	iodine 115	NT2	lead 198	NT2	neodymium 133
NT2	iodine 116	NT2	lead 199	NT2	neodymium 134
NT2	iodine 117	NT2	lead 200	NT2	neodymium 135
NT2	iodine 118	NT2	lead 201	NT2	neodymium 136
NT2	iodine 119	NT2	lead 202	NT2	neodymium 137
NT2	iodine 120	NT2	lead 203	NT2	neodymium 138
NT2	iodine 121	NT2	lead 205	NT2	neodymium 139
NT2	iodine 122	NT2	lutetium 150	NT2	neodymium 140
NT2	iodine 123	NT2	lutetium 153	NT2	neodymium 141
NT2	iodine 124	NT2	lutetium 154	NT2	neptunium 230
NT2	iodine 125	NT2	lutetium 155	NT2	neptunium 231
NT2	iodine 126	NT2	lutetium 156	NT2	neptunium 232
NT2	iodine 128	NT2	lutetium 157	NT2	neptunium 233
NT2	iridium 178	NT2	lutetium 158	NT2	neptunium 234
NT2	iridium 179	NT2	lutetium 159	NT2	neptunium 235
NT2	iridium 180	NT2	lutetium 160	NT2	neptunium 236
NT2	iridium 181	NT2	lutetium 161	NT2	nickel 48
NT2	iridium 182	NT2	lutetium 162	NT2	nickel 51
NT2	iridium 183	NT2	lutetium 163	NT2	nickel 56
NT2	iridium 184	NT2	lutetium 164	NT2	nickel 57
NT2	iridium 185	NT2	lutetium 165	NT2	nickel 59
NT2	iridium 186	NT2	lutetium 166	NT2	niobium 82
NT2	iridium 187	NT2	lutetium 167	NT2	niobium 84
NT2	iridium 188	NT2	lutetium 168	NT2	niobium 85
NT2	iridium 189	NT2	lutetium 169	NT2	niobium 86
NT2	iridium 190	NT2	lutetium 170	NT2	niobium 87
NT2	iridium 192	NT2	lutetium 171	NT2	niobium 88
NT2	iron 45	NT2	lutetium 172	NT2	niobium 90
NT2	iron 52	NT2	lutetium 173	NT2	niobium 91
NT2	iron 53	NT2	lutetium 174	NT2	niobium 92
NT2	iron 55	NT2	manganese 51	NT2	nitrogen 13
NT2	krypton 69	NT2	manganese 52	NT2	nobelium 253
NT2	krypton 71	NT2	manganese 53	NT2	nobelium 254
NT2	krypton 72	NT2	manganese 54	NT2	nobelium 255
NT2	krypton 73	NT2	mendelevium 245	NT2	nobelium 259
NT2	krypton 74	NT2	mendelevium 246	NT2	osmium 166
NT2	krypton 75	NT2	mendelevium 248	NT2	osmium 167
NT2	krypton 76	NT2	mendelevium 249	NT2	osmium 168
NT2	krypton 77	NT2	mendelevium 250	NT2	osmium 169
NT2	krypton 79	NT2	mendelevium 251	NT2	osmium 170
NT2	krypton 81	NT2	mendelevium 252	NT2	osmium 171
NT2	lanthanum 117	NT2	mendelevium 253	NT2	osmium 172
NT2	lanthanum 118	NT2	mendelevium 254	NT2	osmium 173
NT2	lanthanum 119	NT2	mendelevium 255	NT2	osmium 174
NT2	lanthanum 120	NT2	mendelevium 256	NT2	osmium 175
NT2	lanthanum 121	NT2	mendelevium 257	NT2	osmium 176
NT2	lanthanum 122	NT2	mendelevium 258	NT2	osmium 177
NT2	lanthanum 123	NT2	mercury 177	NT2	osmium 178

NT2 osmium 179  
NT2 osmium 180  
NT2 osmium 181  
NT2 osmium 182  
NT2 osmium 183  
NT2 osmium 185  
NT2 palladium 100  
NT2 palladium 101  
NT2 palladium 103  
NT2 palladium 91  
NT2 palladium 92  
NT2 palladium 94  
NT2 palladium 95  
NT2 palladium 96  
NT2 palladium 97  
NT2 palladium 98  
NT2 palladium 99  
NT2 platinum 173  
NT2 platinum 174  
NT2 platinum 175  
NT2 platinum 176  
NT2 platinum 177  
NT2 platinum 178  
NT2 platinum 179  
NT2 platinum 180  
NT2 platinum 181  
NT2 platinum 182  
NT2 platinum 183  
NT2 platinum 184  
NT2 platinum 185  
NT2 platinum 186  
NT2 platinum 187  
NT2 platinum 188  
NT2 platinum 189  
NT2 platinum 191  
NT2 platinum 193  
NT2 plutonium 232  
NT2 plutonium 233  
NT2 plutonium 234  
NT2 plutonium 235  
NT2 plutonium 237  
NT2 polonium 196  
NT2 polonium 197  
NT2 polonium 198  
NT2 polonium 199  
NT2 polonium 200  
NT2 polonium 201  
NT2 polonium 202  
NT2 polonium 203  
NT2 polonium 204  
NT2 polonium 205  
NT2 polonium 206  
NT2 polonium 207  
NT2 polonium 208  
NT2 polonium 209  
NT2 potassium 40  
NT2 praseodymium 125  
NT2 praseodymium 127  
NT2 praseodymium 128  
NT2 praseodymium 129  
NT2 praseodymium 130  
NT2 praseodymium 132  
NT2 praseodymium 133  
NT2 praseodymium 134  
NT2 praseodymium 135  
NT2 praseodymium 136  
NT2 praseodymium 137  
NT2 praseodymium 138  
NT2 praseodymium 139  
NT2 praseodymium 140  
NT2 praseodymium 142  
NT2 promethium 126  
NT2 promethium 127  
NT2 promethium 128  
NT2 promethium 129  
NT2 promethium 130  
NT2 promethium 131  
NT2 promethium 132  
NT2 promethium 133

NT2 promethium 134  
NT2 promethium 135  
NT2 promethium 136  
NT2 promethium 137  
NT2 promethium 138  
NT2 promethium 139  
NT2 promethium 140  
NT2 promethium 141  
NT2 promethium 142  
NT2 promethium 143  
NT2 promethium 144  
NT2 promethium 145  
NT2 promethium 146  
NT2 protactinium 226  
NT2 protactinium 227  
NT2 protactinium 228  
NT2 protactinium 229  
NT2 protactinium 230  
NT2 radium 213  
NT2 radium 214  
NT2 radon 198  
NT2 radon 200  
NT2 radon 201  
NT2 radon 202  
NT2 radon 203  
NT2 radon 204  
NT2 radon 205  
NT2 radon 206  
NT2 radon 207  
NT2 radon 208  
NT2 radon 209  
NT2 radon 210  
NT2 radon 211  
NT2 rhenium 163  
NT2 rhenium 164  
NT2 rhenium 165  
NT2 rhenium 168  
NT2 rhenium 170  
NT2 rhenium 171  
NT2 rhenium 172  
NT2 rhenium 173  
NT2 rhenium 174  
NT2 rhenium 175  
NT2 rhenium 176  
NT2 rhenium 177  
NT2 rhenium 178  
NT2 rhenium 179  
NT2 rhenium 180  
NT2 rhenium 181  
NT2 rhenium 182  
NT2 rhenium 183  
NT2 rhenium 184  
NT2 rhenium 186  
NT2 rhodium 100  
NT2 rhodium 101  
NT2 rhodium 102  
NT2 rhodium 104  
NT2 rhodium 89  
NT2 rhodium 90  
NT2 rhodium 91  
NT2 rhodium 92  
NT2 rhodium 93  
NT2 rhodium 95  
NT2 rhodium 96  
NT2 rhodium 97  
NT2 rhodium 98  
NT2 rhodium 99  
NT2 rubidium 76  
NT2 rubidium 77  
NT2 rubidium 78  
NT2 rubidium 79  
NT2 rubidium 81  
NT2 rubidium 82  
NT2 rubidium 83  
NT2 rubidium 84  
NT2 rubidium 86  
NT2 ruthenium 87  
NT2 ruthenium 90  
NT2 ruthenium 91

NT2 ruthenium 92  
NT2 ruthenium 93  
NT2 ruthenium 94  
NT2 ruthenium 95  
NT2 ruthenium 97  
NT2 samarium 129  
NT2 samarium 130  
NT2 samarium 132  
NT2 samarium 133  
NT2 samarium 134  
NT2 samarium 135  
NT2 samarium 136  
NT2 samarium 137  
NT2 samarium 138  
NT2 samarium 139  
NT2 samarium 140  
NT2 samarium 141  
NT2 samarium 142  
NT2 samarium 143  
NT2 samarium 145  
NT2 scandium 44  
NT2 selenium 69  
NT2 selenium 70  
NT2 selenium 71  
NT2 selenium 72  
NT2 selenium 73  
NT2 selenium 75  
NT2 silver 100  
NT2 silver 101  
NT2 silver 102  
NT2 silver 103  
NT2 silver 104  
NT2 silver 105  
NT2 silver 106  
NT2 silver 108  
NT2 silver 110  
NT2 silver 93  
NT2 silver 95  
NT2 silver 96  
NT2 silver 97  
NT2 silver 98  
NT2 silver 99  
NT2 sodium 20  
NT2 strontium 73  
NT2 strontium 74  
NT2 strontium 76  
NT2 strontium 78  
NT2 strontium 79  
NT2 strontium 80  
NT2 strontium 81  
NT2 strontium 82  
NT2 strontium 83  
NT2 strontium 85  
NT2 strontium 87  
NT2 tantalum 158  
NT2 tantalum 159  
NT2 tantalum 160  
NT2 tantalum 165  
NT2 tantalum 166  
NT2 tantalum 167  
NT2 tantalum 168  
NT2 tantalum 169  
NT2 tantalum 170  
NT2 tantalum 171  
NT2 tantalum 172  
NT2 tantalum 173  
NT2 tantalum 174  
NT2 tantalum 175  
NT2 tantalum 176  
NT2 tantalum 177  
NT2 tantalum 178  
NT2 tantalum 179  
NT2 tantalum 180  
NT2 technetium 85  
NT2 technetium 86  
NT2 technetium 87  
NT2 technetium 90  
NT2 technetium 91  
NT2 technetium 92



NT2 technetium 93  
 NT2 technetium 94  
 NT2 technetium 95  
 NT2 technetium 96  
 NT2 technetium 97  
 NT2 tellurium 107  
 NT2 tellurium 108  
 NT2 tellurium 109  
 NT2 tellurium 110  
 NT2 tellurium 111  
 NT2 tellurium 112  
 NT2 tellurium 113  
 NT2 tellurium 114  
 NT2 tellurium 115  
 NT2 tellurium 116  
 NT2 tellurium 117  
 NT2 tellurium 118  
 NT2 tellurium 119  
 NT2 tellurium 121  
 NT2 tellurium 123  
 NT2 terbium 136  
 NT2 terbium 137  
 NT2 terbium 138  
 NT2 terbium 139  
 NT2 terbium 141  
 NT2 terbium 142  
 NT2 terbium 143  
 NT2 terbium 144  
 NT2 terbium 146  
 NT2 terbium 147  
 NT2 terbium 148  
 NT2 terbium 149  
 NT2 terbium 150  
 NT2 terbium 151  
 NT2 terbium 152  
 NT2 terbium 153  
 NT2 terbium 154  
 NT2 terbium 155  
 NT2 terbium 156  
 NT2 terbium 157  
 NT2 terbium 158  
 NT2 thallium 178  
 NT2 thallium 180  
 NT2 thallium 181  
 NT2 thallium 184  
 NT2 thallium 186  
 NT2 thallium 187  
 NT2 thallium 188  
 NT2 thallium 189  
 NT2 thallium 190  
 NT2 thallium 191  
 NT2 thallium 192  
 NT2 thallium 193  
 NT2 thallium 194  
 NT2 thallium 195  
 NT2 thallium 196  
 NT2 thallium 197  
 NT2 thallium 198  
 NT2 thallium 199  
 NT2 thallium 200  
 NT2 thallium 201  
 NT2 thallium 202  
 NT2 thallium 204  
 NT2 thorium 225  
 NT2 thulium 148  
 NT2 thulium 152  
 NT2 thulium 153  
 NT2 thulium 154  
 NT2 thulium 155  
 NT2 thulium 156  
 NT2 thulium 157  
 NT2 thulium 158  
 NT2 thulium 159  
 NT2 thulium 160  
 NT2 thulium 161  
 NT2 thulium 162  
 NT2 thulium 163  
 NT2 thulium 164  
 NT2 thulium 165

NT2 thulium 166  
 NT2 thulium 167  
 NT2 thulium 168  
 NT2 thulium 170  
 NT2 tin 100  
 NT2 tin 102  
 NT2 tin 106  
 NT2 tin 107  
 NT2 tin 108  
 NT2 tin 109  
 NT2 tin 110  
 NT2 tin 111  
 NT2 tin 113  
 NT2 tin 99  
 NT2 titanium 44  
 NT2 titanium 45  
 NT2 tungsten 161  
 NT2 tungsten 162  
 NT2 tungsten 163  
 NT2 tungsten 164  
 NT2 tungsten 165  
 NT2 tungsten 166  
 NT2 tungsten 168  
 NT2 tungsten 169  
 NT2 tungsten 170  
 NT2 tungsten 171  
 NT2 tungsten 172  
 NT2 tungsten 173  
 NT2 tungsten 174  
 NT2 tungsten 175  
 NT2 tungsten 176  
 NT2 tungsten 177  
 NT2 tungsten 178  
 NT2 tungsten 179  
 NT2 tungsten 181  
 NT2 uranium 228  
 NT2 uranium 229  
 NT2 uranium 231  
 NT2 vanadium 42  
 NT2 vanadium 45  
 NT2 vanadium 47  
 NT2 vanadium 48  
 NT2 vanadium 49  
 NT2 vanadium 50  
 NT2 xenon 110  
 NT2 xenon 111  
 NT2 xenon 112  
 NT2 xenon 113  
 NT2 xenon 114  
 NT2 xenon 115  
 NT2 xenon 116  
 NT2 xenon 117  
 NT2 xenon 118  
 NT2 xenon 119  
 NT2 xenon 120  
 NT2 xenon 121  
 NT2 xenon 122  
 NT2 xenon 123  
 NT2 xenon 125  
 NT2 xenon 127  
 NT2 ytterbium 148  
 NT2 ytterbium 149  
 NT2 ytterbium 153  
 NT2 ytterbium 155  
 NT2 ytterbium 156  
 NT2 ytterbium 157  
 NT2 ytterbium 158  
 NT2 ytterbium 159  
 NT2 ytterbium 160  
 NT2 ytterbium 161  
 NT2 ytterbium 162  
 NT2 ytterbium 163  
 NT2 ytterbium 164  
 NT2 ytterbium 165  
 NT2 ytterbium 166  
 NT2 ytterbium 167  
 NT2 ytterbium 169  
 NT2 yttrium 78  
 NT2 yttrium 79

NT2 yttrium 80  
 NT2 yttrium 81  
 NT2 yttrium 83  
 NT2 yttrium 84  
 NT2 yttrium 85  
 NT2 yttrium 86  
 NT2 yttrium 87  
 NT2 yttrium 88  
 NT2 zinc 55  
 NT2 zinc 56  
 NT2 zinc 60  
 NT2 zinc 61  
 NT2 zinc 62  
 NT2 zinc 63  
 NT2 zinc 65  
 NT2 zirconium 78  
 NT2 zirconium 79  
 NT2 zirconium 84  
 NT2 zirconium 85  
 NT2 zirconium 86  
 NT2 zirconium 87  
 NT2 zirconium 88  
 NT2 zirconium 89

RT beta decay

### BETA-DELAYED NEUTRONS

INIS: 1985-01-17; ETDE: 1988-10-12

\*BT1 neutrons

RT beta-minus decay

RT delayed neutron precursors

RT neutron-rich isotopes

### beta-delayed protons

INIS: 1985-01-17; ETDE: 2002-06-13

USE delayed protons

### BETA DETECTION

\*BT1 charged particle detection

RT beta dosimetry

RT beta particles

RT beta spectrometers

RT beta spectroscopy

RT electron detection

RT positron detection

### BETA DOSIMETRY

BT1 dosimetry

RT beta detection

### BETA II DEVICES

INIS: 1981-10-15; ETDE: 1979-03-28

This device was formerly known as 2XII.B.

\*BT1 magnetic mirrors

### BETA-MINUS DECAY

\*BT1 beta decay

NT1 double beta decay

RT beta-delayed neutrons

RT beta-minus decay radioisotopes

### BETA-MINUS DECAY

#### RADIOISOTOPES

1998-01-27

\*BT1 beta decay radioisotopes

NT1 actinium 226

NT1 actinium 227

NT1 actinium 228

NT1 actinium 229

NT1 actinium 230

NT1 actinium 231

NT1 actinium 232

NT1 actinium 233

NT1 actinium 234

NT1 actinium 235

NT1 actinium 236

NT1 aluminium 28

NT1 aluminium 29

NT1 aluminium 30

NT1 aluminium 31

NT1 aluminium 32

NT1 aluminium 34

NT1	aluminium 36	NT1	berkelium 248	NT1	carbon 16
NT1	aluminium 37	NT1	berkelium 249	NT1	carbon 17
NT1	aluminium 40	NT1	berkelium 250	NT1	carbon 18
NT1	aluminium 41	NT1	berkelium 251	NT1	cerium 141
NT1	aluminium 42	NT1	berkelium 252	NT1	cerium 143
NT1	americium 242	NT1	berkelium 253	NT1	cerium 144
NT1	americium 244	NT1	berkelium 254	NT1	cerium 145
NT1	americium 245	NT1	beryllium 10	NT1	cerium 146
NT1	americium 246	NT1	beryllium 11	NT1	cerium 147
NT1	americium 247	NT1	beryllium 12	NT1	cerium 148
NT1	americium 248	NT1	beryllium 14	NT1	cerium 149
NT1	americium 249	NT1	bismuth 210	NT1	cerium 150
NT1	antimony 122	NT1	bismuth 211	NT1	cerium 151
NT1	antimony 124	NT1	bismuth 212	NT1	cerium 152
NT1	antimony 125	NT1	bismuth 213	NT1	cerium 153
NT1	antimony 126	NT1	bismuth 214	NT1	cerium 154
NT1	antimony 127	NT1	bismuth 215	NT1	cerium 155
NT1	antimony 128	NT1	bismuth 216	NT1	cerium 156
NT1	antimony 129	NT1	bismuth 217	NT1	cerium 157
NT1	antimony 130	NT1	bismuth 218	NT1	cesium 130
NT1	antimony 131	NT1	boron 12	NT1	cesium 132
NT1	antimony 132	NT1	boron 13	NT1	cesium 134
NT1	antimony 133	NT1	boron 14	NT1	cesium 135
NT1	antimony 134	NT1	boron 15	NT1	cesium 136
NT1	antimony 135	NT1	boron 16	NT1	cesium 137
NT1	antimony 136	NT1	boron 17	NT1	cesium 138
NT1	antimony 137	NT1	boron 19	NT1	cesium 139
NT1	antimony 138	NT1	bromine 80	NT1	cesium 140
NT1	antimony 139	NT1	bromine 82	NT1	cesium 141
NT1	argon 39	NT1	bromine 83	NT1	cesium 142
NT1	argon 41	NT1	bromine 84	NT1	cesium 143
NT1	argon 42	NT1	bromine 85	NT1	cesium 144
NT1	argon 43	NT1	bromine 86	NT1	cesium 145
NT1	argon 44	NT1	bromine 87	NT1	cesium 146
NT1	argon 45	NT1	bromine 88	NT1	cesium 147
NT1	argon 46	NT1	bromine 89	NT1	cesium 148
NT1	argon 48	NT1	bromine 90	NT1	cesium 149
NT1	argon 52	NT1	bromine 91	NT1	cesium 150
NT1	argon 53	NT1	bromine 92	NT1	cesium 151
NT1	arsenic 74	NT1	bromine 93	NT1	chlorine 36
NT1	arsenic 76	NT1	bromine 94	NT1	chlorine 38
NT1	arsenic 77	NT1	bromine 95	NT1	chlorine 39
NT1	arsenic 78	NT1	bromine 96	NT1	chlorine 40
NT1	arsenic 79	NT1	bromine 97	NT1	chlorine 41
NT1	arsenic 80	NT1	cadmium 113	NT1	chlorine 50
NT1	arsenic 81	NT1	cadmium 115	NT1	chromium 55
NT1	arsenic 82	NT1	cadmium 117	NT1	chromium 56
NT1	arsenic 83	NT1	cadmium 118	NT1	chromium 57
NT1	arsenic 84	NT1	cadmium 119	NT1	chromium 58
NT1	arsenic 85	NT1	cadmium 120	NT1	chromium 59
NT1	arsenic 86	NT1	cadmium 121	NT1	chromium 60
NT1	arsenic 87	NT1	cadmium 122	NT1	chromium 62
NT1	arsenic 88	NT1	cadmium 123	NT1	chromium 63
NT1	arsenic 89	NT1	cadmium 124	NT1	chromium 64
NT1	arsenic 90	NT1	cadmium 125	NT1	chromium 65
NT1	arsenic 91	NT1	cadmium 126	NT1	chromium 66
NT1	arsenic 92	NT1	cadmium 127	NT1	chromium 67
NT1	astatine 217	NT1	cadmium 128	NT1	cobalt 60
NT1	astatine 218	NT1	cadmium 129	NT1	cobalt 61
NT1	astatine 219	NT1	cadmium 130	NT1	cobalt 62
NT1	astatine 220	NT1	cadmium 131	NT1	cobalt 63
NT1	astatine 221	NT1	cadmium 132	NT1	cobalt 64
NT1	astatine 222	NT1	calcium 45	NT1	cobalt 65
NT1	astatine 223	NT1	calcium 47	NT1	cobalt 66
NT1	barium 139	NT1	calcium 49	NT1	cobalt 67
NT1	barium 140	NT1	calcium 50	NT1	cobalt 71
NT1	barium 141	NT1	calcium 51	NT1	cobalt 72
NT1	barium 142	NT1	calcium 52	NT1	cobalt 73
NT1	barium 143	NT1	calcium 53	NT1	cobalt 74
NT1	barium 144	NT1	calcium 54	NT1	cobalt 75
NT1	barium 145	NT1	calcium 55	NT1	copper 64
NT1	barium 146	NT1	calcium 56	NT1	copper 66
NT1	barium 147	NT1	calcium 57	NT1	copper 67
NT1	barium 148	NT1	calcium 58	NT1	copper 68
NT1	barium 149	NT1	calcium 60	NT1	copper 69
NT1	barium 150	NT1	californium 253	NT1	copper 70
NT1	barium 151	NT1	californium 255	NT1	copper 71
NT1	barium 152	NT1	carbon 14	NT1	copper 72
NT1	barium 153	NT1	carbon 15	NT1	copper 73

NT1	copper 74	NT1	gallium 76	NT1	iodine 129
NT1	copper 75	NT1	gallium 77	NT1	iodine 130
NT1	copper 76	NT1	gallium 78	NT1	iodine 131
NT1	copper 77	NT1	gallium 79	NT1	iodine 132
NT1	copper 78	NT1	gallium 80	NT1	iodine 133
NT1	copper 79	NT1	gallium 81	NT1	iodine 134
NT1	copper 80	NT1	gallium 82	NT1	iodine 135
NT1	curium 249	NT1	gallium 83	NT1	iodine 136
NT1	curium 250	NT1	gallium 84	NT1	iodine 137
NT1	curium 251	NT1	gallium 85	NT1	iodine 138
NT1	dysprosium 165	NT1	gallium 86	NT1	iodine 139
NT1	dysprosium 166	NT1	germanium 75	NT1	iodine 140
NT1	dysprosium 167	NT1	germanium 77	NT1	iodine 141
NT1	dysprosium 168	NT1	germanium 78	NT1	iodine 142
NT1	dysprosium 169	NT1	germanium 79	NT1	iodine 143
NT1	dysprosium 170	NT1	germanium 80	NT1	iodine 144
NT1	dysprosium 171	NT1	germanium 81	NT1	iridium 192
NT1	dysprosium 172	NT1	germanium 82	NT1	iridium 194
NT1	dysprosium 173	NT1	germanium 83	NT1	iridium 195
NT1	einsteinium 254	NT1	germanium 84	NT1	iridium 196
NT1	einsteinium 255	NT1	germanium 85	NT1	iridium 197
NT1	einsteinium 256	NT1	germanium 86	NT1	iridium 198
NT1	einsteinium 257	NT1	germanium 87	NT1	iridium 199
NT1	erbium 169	NT1	germanium 88	NT1	iron 59
NT1	erbium 171	NT1	germanium 89	NT1	iron 60
NT1	erbium 172	NT1	gold 196	NT1	iron 61
NT1	erbium 173	NT1	gold 198	NT1	iron 62
NT1	erbium 174	NT1	gold 199	NT1	iron 63
NT1	erbium 175	NT1	gold 200	NT1	iron 64
NT1	erbium 176	NT1	gold 201	NT1	iron 69
NT1	erbium 177	NT1	gold 202	NT1	iron 70
NT1	europium 150	NT1	gold 203	NT1	iron 71
NT1	europium 152	NT1	gold 204	NT1	iron 72
NT1	europium 154	NT1	gold 205	NT1	krypton 100
NT1	europium 155	NT1	hafnium 181	NT1	krypton 85
NT1	europium 156	NT1	hafnium 182	NT1	krypton 87
NT1	europium 157	NT1	hafnium 183	NT1	krypton 88
NT1	europium 158	NT1	hafnium 184	NT1	krypton 89
NT1	europium 159	NT1	hafnium 187	NT1	krypton 90
NT1	europium 160	NT1	hafnium 188	NT1	krypton 91
NT1	europium 161	NT1	helium 6	NT1	krypton 92
NT1	europium 162	NT1	helium 7	NT1	krypton 93
NT1	europium 163	NT1	helium 8	NT1	krypton 94
NT1	europium 164	NT1	holmium 164	NT1	krypton 95
NT1	europium 165	NT1	holmium 166	NT1	krypton 97
NT1	europium 166	NT1	holmium 167	NT1	krypton 99
NT1	europium 167	NT1	holmium 168	NT1	lanthanum 138
NT1	fluorine 20	NT1	holmium 169	NT1	lanthanum 140
NT1	fluorine 21	NT1	holmium 170	NT1	lanthanum 141
NT1	fluorine 22	NT1	holmium 171	NT1	lanthanum 142
NT1	fluorine 23	NT1	holmium 172	NT1	lanthanum 143
NT1	fluorine 24	NT1	holmium 173	NT1	lanthanum 144
NT1	fluorine 25	NT1	holmium 174	NT1	lanthanum 145
NT1	fluorine 26	NT1	holmium 175	NT1	lanthanum 146
NT1	fluorine 27	NT1	indium 112	NT1	lanthanum 147
NT1	francium 220	NT1	indium 114	NT1	lanthanum 148
NT1	francium 222	NT1	indium 115	NT1	lanthanum 149
NT1	francium 223	NT1	indium 116	NT1	lanthanum 150
NT1	francium 224	NT1	indium 117	NT1	lanthanum 151
NT1	francium 225	NT1	indium 118	NT1	lanthanum 152
NT1	francium 226	NT1	indium 119	NT1	lanthanum 153
NT1	francium 227	NT1	indium 120	NT1	lanthanum 154
NT1	francium 228	NT1	indium 121	NT1	lanthanum 155
NT1	francium 229	NT1	indium 122	NT1	lead 209
NT1	francium 230	NT1	indium 123	NT1	lead 210
NT1	francium 231	NT1	indium 124	NT1	lead 211
NT1	gadolinium 159	NT1	indium 125	NT1	lead 212
NT1	gadolinium 161	NT1	indium 126	NT1	lead 213
NT1	gadolinium 162	NT1	indium 127	NT1	lead 214
NT1	gadolinium 163	NT1	indium 128	NT1	lithium 11
NT1	gadolinium 164	NT1	indium 129	NT1	lithium 13
NT1	gadolinium 165	NT1	indium 130	NT1	lithium 8
NT1	gadolinium 166	NT1	indium 131	NT1	lithium 9
NT1	gadolinium 168	NT1	indium 132	NT1	lutetium 176
NT1	gallium 70	NT1	indium 133	NT1	lutetium 177
NT1	gallium 72	NT1	indium 134	NT1	lutetium 178
NT1	gallium 73	NT1	indium 135	NT1	lutetium 179
NT1	gallium 74	NT1	iodine 126	NT1	lutetium 180
NT1	gallium 75	NT1	iodine 128	NT1	lutetium 181

NT1	lutetium 182	NT1	nickel 63	NT1	platinum 197
NT1	lutetium 183	NT1	nickel 65	NT1	platinum 199
NT1	lutetium 184	NT1	nickel 66	NT1	platinum 200
NT1	lutetium 187	NT1	nickel 67	NT1	platinum 201
NT1	magnesium 27	NT1	nickel 69	NT1	plutonium 241
NT1	magnesium 28	NT1	nickel 70	NT1	plutonium 243
NT1	magnesium 29	NT1	nickel 71	NT1	plutonium 245
NT1	magnesium 30	NT1	nickel 72	NT1	plutonium 246
NT1	magnesium 31	NT1	nickel 73	NT1	polonium 215
NT1	magnesium 32	NT1	nickel 74	NT1	polonium 218
NT1	magnesium 33	NT1	nickel 75	NT1	potassium 40
NT1	magnesium 34	NT1	nickel 76	NT1	potassium 42
NT1	magnesium 37	NT1	nickel 77	NT1	potassium 43
NT1	magnesium 38	NT1	niobium 100	NT1	potassium 44
NT1	magnesium 39	NT1	niobium 101	NT1	potassium 45
NT1	magnesium 40	NT1	niobium 102	NT1	potassium 46
NT1	manganese 56	NT1	niobium 103	NT1	potassium 47
NT1	manganese 57	NT1	niobium 104	NT1	potassium 48
NT1	manganese 58	NT1	niobium 105	NT1	potassium 49
NT1	manganese 59	NT1	niobium 106	NT1	potassium 50
NT1	manganese 60	NT1	niobium 107	NT1	potassium 51
NT1	manganese 61	NT1	niobium 108	NT1	potassium 52
NT1	manganese 62	NT1	niobium 109	NT1	potassium 53
NT1	manganese 63	NT1	niobium 110	NT1	potassium 54
NT1	manganese 66	NT1	niobium 111	NT1	potassium 55
NT1	manganese 67	NT1	niobium 112	NT1	praseodymium 142
NT1	manganese 68	NT1	niobium 113	NT1	praseodymium 143
NT1	manganese 69	NT1	niobium 94	NT1	praseodymium 144
NT1	mercury 203	NT1	niobium 95	NT1	praseodymium 145
NT1	mercury 205	NT1	niobium 96	NT1	praseodymium 146
NT1	mercury 206	NT1	niobium 97	NT1	praseodymium 147
NT1	molybdenum 101	NT1	niobium 98	NT1	praseodymium 148
NT1	molybdenum 102	NT1	niobium 99	NT1	praseodymium 149
NT1	molybdenum 103	NT1	nitrogen 16	NT1	praseodymium 150
NT1	molybdenum 104	NT1	nitrogen 17	NT1	praseodymium 151
NT1	molybdenum 105	NT1	nitrogen 18	NT1	praseodymium 152
NT1	molybdenum 106	NT1	nitrogen 19	NT1	praseodymium 153
NT1	molybdenum 107	NT1	nitrogen 20	NT1	praseodymium 154
NT1	molybdenum 108	NT1	nitrogen 22	NT1	praseodymium 155
NT1	molybdenum 109	NT1	nitrogen 23	NT1	praseodymium 156
NT1	molybdenum 110	NT1	osmium 191	NT1	praseodymium 157
NT1	molybdenum 111	NT1	osmium 193	NT1	praseodymium 158
NT1	molybdenum 112	NT1	osmium 194	NT1	praseodymium 159
NT1	molybdenum 113	NT1	osmium 195	NT1	promethium 146
NT1	molybdenum 114	NT1	osmium 196	NT1	promethium 147
NT1	molybdenum 115	NT1	osmium 197	NT1	promethium 148
NT1	molybdenum 99	NT1	osmium 199	NT1	promethium 149
NT1	neodymium 147	NT1	oxygen 19	NT1	promethium 150
NT1	neodymium 149	NT1	oxygen 20	NT1	promethium 151
NT1	neodymium 151	NT1	oxygen 21	NT1	promethium 152
NT1	neodymium 152	NT1	oxygen 22	NT1	promethium 153
NT1	neodymium 153	NT1	oxygen 23	NT1	promethium 154
NT1	neodymium 154	NT1	oxygen 24	NT1	promethium 155
NT1	neodymium 155	NT1	palladium 107	NT1	promethium 156
NT1	neodymium 156	NT1	palladium 109	NT1	promethium 157
NT1	neodymium 157	NT1	palladium 111	NT1	promethium 158
NT1	neodymium 158	NT1	palladium 112	NT1	promethium 159
NT1	neodymium 159	NT1	palladium 113	NT1	promethium 160
NT1	neodymium 160	NT1	palladium 114	NT1	promethium 161
NT1	neodymium 161	NT1	palladium 115	NT1	promethium 162
NT1	neon 23	NT1	palladium 116	NT1	promethium 163
NT1	neon 24	NT1	palladium 117	NT1	protactinium 230
NT1	neon 25	NT1	palladium 118	NT1	protactinium 232
NT1	neon 26	NT1	palladium 119	NT1	protactinium 233
NT1	neon 27	NT1	palladium 120	NT1	protactinium 234
NT1	neon 29	NT1	palladium 121	NT1	protactinium 235
NT1	neon 30	NT1	palladium 122	NT1	protactinium 236
NT1	neon 31	NT1	palladium 123	NT1	protactinium 237
NT1	neon 33	NT1	palladium 124	NT1	protactinium 238
NT1	neon 34	NT1	phosphorus 32	NT1	protactinium 239
NT1	neptunium 236	NT1	phosphorus 33	NT1	protactinium 240
NT1	neptunium 238	NT1	phosphorus 34	NT1	radium 225
NT1	neptunium 239	NT1	phosphorus 35	NT1	radium 227
NT1	neptunium 240	NT1	phosphorus 36	NT1	radium 228
NT1	neptunium 241	NT1	phosphorus 37	NT1	radium 229
NT1	neptunium 242	NT1	phosphorus 38	NT1	radium 230
NT1	neptunium 243	NT1	phosphorus 40	NT1	radium 231
NT1	neptunium 244	NT1	phosphorus 41	NT1	radium 232
NT1	neutron-rich isotopes	NT1	phosphorus 42	NT1	radon 221

NTI radon 223	NTI samarium 164	NTI strontium 91
NTI radon 224	NTI samarium 165	NTI strontium 92
NTI radon 225	NTI scandium 46	NTI strontium 93
NTI radon 226	NTI scandium 47	NTI strontium 94
NTI radon 227	NTI scandium 48	NTI strontium 95
NTI radon 228	NTI scandium 49	NTI strontium 96
NTI rhenium 186	NTI scandium 50	NTI strontium 97
NTI rhenium 187	NTI scandium 51	NTI strontium 98
NTI rhenium 188	NTI scandium 52	NTI strontium 99
NTI rhenium 189	NTI scandium 53	NTI sulfur 35
NTI rhenium 190	NTI scandium 56	NTI sulfur 37
NTI rhenium 191	NTI scandium 57	NTI sulfur 38
NTI rhenium 192	NTI scandium 58	NTI sulfur 39
NTI rhenium 193	NTI scandium 59	NTI sulfur 40
NTI rhenium 194	NTI scandium 60	NTI sulfur 43
NTI rhodium 102	NTI selenium 79	NTI tantalum 180
NTI rhodium 104	NTI selenium 81	NTI tantalum 182
NTI rhodium 105	NTI selenium 83	NTI tantalum 183
NTI rhodium 106	NTI selenium 84	NTI tantalum 184
NTI rhodium 107	NTI selenium 85	NTI tantalum 185
NTI rhodium 108	NTI selenium 86	NTI tantalum 186
NTI rhodium 109	NTI selenium 87	NTI tantalum 187
NTI rhodium 110	NTI selenium 88	NTI tantalum 188
NTI rhodium 111	NTI selenium 89	NTI tantalum 189
NTI rhodium 112	NTI selenium 91	NTI tantalum 190
NTI rhodium 113	NTI silicon 31	NTI technetium 100
NTI rhodium 114	NTI silicon 32	NTI technetium 101
NTI rhodium 115	NTI silicon 33	NTI technetium 102
NTI rhodium 116	NTI silicon 34	NTI technetium 103
NTI rhodium 117	NTI silicon 35	NTI technetium 104
NTI rhodium 118	NTI silicon 36	NTI technetium 105
NTI rhodium 119	NTI silicon 37	NTI technetium 106
NTI rhodium 120	NTI silicon 38	NTI technetium 107
NTI rhodium 121	NTI silicon 39	NTI technetium 108
NTI rhodium 122	NTI silicon 43	NTI technetium 109
NTI rubidium 100	NTI silicon 44	NTI technetium 110
NTI rubidium 84	NTI silver 108	NTI technetium 111
NTI rubidium 86	NTI silver 110	NTI technetium 112
NTI rubidium 87	NTI silver 111	NTI technetium 113
NTI rubidium 88	NTI silver 112	NTI technetium 114
NTI rubidium 89	NTI silver 113	NTI technetium 115
NTI rubidium 90	NTI silver 114	NTI technetium 116
NTI rubidium 91	NTI silver 115	NTI technetium 117
NTI rubidium 92	NTI silver 116	NTI technetium 118
NTI rubidium 93	NTI silver 117	NTI technetium 98
NTI rubidium 94	NTI silver 118	NTI technetium 99
NTI rubidium 95	NTI silver 119	NTI tellurium 127
NTI rubidium 96	NTI silver 120	NTI tellurium 129
NTI rubidium 97	NTI silver 121	NTI tellurium 131
NTI rubidium 98	NTI silver 122	NTI tellurium 132
NTI rubidium 99	NTI silver 123	NTI tellurium 133
NTI ruthenium 103	NTI silver 124	NTI tellurium 134
NTI ruthenium 105	NTI silver 125	NTI tellurium 135
NTI ruthenium 106	NTI silver 126	NTI tellurium 136
NTI ruthenium 107	NTI silver 127	NTI tellurium 137
NTI ruthenium 108	NTI silver 128	NTI tellurium 138
NTI ruthenium 109	NTI silver 129	NTI tellurium 139
NTI ruthenium 110	NTI silver 130	NTI tellurium 140
NTI ruthenium 111	NTI sodium 24	NTI tellurium 141
NTI ruthenium 112	NTI sodium 25	NTI tellurium 142
NTI ruthenium 113	NTI sodium 26	NTI terbium 156
NTI ruthenium 114	NTI sodium 27	NTI terbium 158
NTI ruthenium 115	NTI sodium 28	NTI terbium 160
NTI ruthenium 116	NTI sodium 29	NTI terbium 161
NTI ruthenium 117	NTI sodium 30	NTI terbium 162
NTI ruthenium 118	NTI sodium 31	NTI terbium 163
NTI ruthenium 119	NTI sodium 32	NTI terbium 164
NTI ruthenium 120	NTI sodium 33	NTI terbium 165
NTI samarium 151	NTI sodium 34	NTI terbium 166
NTI samarium 153	NTI sodium 35	NTI terbium 167
NTI samarium 155	NTI sodium 37	NTI terbium 168
NTI samarium 156	NTI strontium 100	NTI terbium 169
NTI samarium 157	NTI strontium 101	NTI terbium 170
NTI samarium 158	NTI strontium 102	NTI terbium 171
NTI samarium 159	NTI strontium 103	NTI thallium 204
NTI samarium 160	NTI strontium 104	NTI thallium 206
NTI samarium 161	NTI strontium 105	NTI thallium 207
NTI samarium 162	NTI strontium 89	NTI thallium 208
NTI samarium 163	NTI strontium 90	NTI thallium 209

NT1 thallium 210  
 NT1 thallium 211  
 NT1 thallium 212  
 NT1 thorium 231  
 NT1 thorium 233  
 NT1 thorium 234  
 NT1 thorium 235  
 NT1 thorium 236  
 NT1 thorium 237  
 NT1 thulium 168  
 NT1 thulium 170  
 NT1 thulium 171  
 NT1 thulium 172  
 NT1 thulium 173  
 NT1 thulium 174  
 NT1 thulium 175  
 NT1 thulium 176  
 NT1 thulium 177  
 NT1 thulium 178  
 NT1 thulium 179  
 NT1 tin 121  
 NT1 tin 123  
 NT1 tin 125  
 NT1 tin 126  
 NT1 tin 127  
 NT1 tin 128  
 NT1 tin 129  
 NT1 tin 130  
 NT1 tin 131  
 NT1 tin 132  
 NT1 tin 133  
 NT1 tin 134  
 NT1 tin 135  
 NT1 tin 136  
 NT1 tin 137  
 NT1 titanium 51  
 NT1 titanium 52  
 NT1 titanium 53  
 NT1 titanium 54  
 NT1 titanium 55  
 NT1 titanium 56  
 NT1 titanium 58  
 NT1 titanium 59  
 NT1 titanium 60  
 NT1 titanium 61  
 NT1 titanium 62  
 NT1 titanium 63  
 NT1 tritium  
 NT1 tungsten 185  
 NT1 tungsten 187  
 NT1 tungsten 188  
 NT1 tungsten 189  
 NT1 tungsten 191  
 NT1 uranium 237  
 NT1 uranium 239  
 NT1 uranium 240  
 NT1 uranium 241  
 NT1 uranium 242  
 NT1 vanadium 50  
 NT1 vanadium 52  
 NT1 vanadium 53  
 NT1 vanadium 54  
 NT1 vanadium 55  
 NT1 vanadium 56  
 NT1 vanadium 57  
 NT1 vanadium 58  
 NT1 vanadium 61  
 NT1 vanadium 62  
 NT1 vanadium 63  
 NT1 vanadium 64  
 NT1 vanadium 65  
 NT1 xenon 133  
 NT1 xenon 135  
 NT1 xenon 137  
 NT1 xenon 138  
 NT1 xenon 139  
 NT1 xenon 140  
 NT1 xenon 141  
 NT1 xenon 142

NT1 xenon 143  
 NT1 xenon 144  
 NT1 xenon 145  
 NT1 xenon 147  
 NT1 ytterbium 175  
 NT1 ytterbium 177  
 NT1 ytterbium 178  
 NT1 ytterbium 179  
 NT1 ytterbium 180  
 NT1 ytterbium 181  
 NT1 yttrium 100  
 NT1 yttrium 101  
 NT1 yttrium 102  
 NT1 yttrium 103  
 NT1 yttrium 104  
 NT1 yttrium 105  
 NT1 yttrium 106  
 NT1 yttrium 107  
 NT1 yttrium 108  
 NT1 yttrium 90  
 NT1 yttrium 91  
 NT1 yttrium 92  
 NT1 yttrium 93  
 NT1 yttrium 94  
 NT1 yttrium 95  
 NT1 yttrium 96  
 NT1 yttrium 97  
 NT1 yttrium 98  
 NT1 yttrium 99  
 NT1 zinc 69  
 NT1 zinc 71  
 NT1 zinc 72  
 NT1 zinc 73  
 NT1 zinc 74  
 NT1 zinc 75  
 NT1 zinc 76  
 NT1 zinc 77  
 NT1 zinc 78  
 NT1 zinc 79  
 NT1 zinc 80  
 NT1 zinc 81  
 NT1 zinc 82  
 NT1 zinc 83  
 NT1 zirconium 100  
 NT1 zirconium 101  
 NT1 zirconium 102  
 NT1 zirconium 103  
 NT1 zirconium 104  
 NT1 zirconium 105  
 NT1 zirconium 106  
 NT1 zirconium 107  
 NT1 zirconium 108  
 NT1 zirconium 109  
 NT1 zirconium 110  
 NT1 zirconium 93  
 NT1 zirconium 95  
 NT1 zirconium 97  
 NT1 zirconium 98  
 NT1 zirconium 99  
 RT beta-minus decay

#### BETA PARTICLES

*Emitted by nuclei.*

BT1 charged particles  
 \*BT1 ionizing radiations  
 RT beta decay  
 RT beta detection  
 RT beta sources  
 RT electrons  
 RT positrons

#### BETA-PLUS DECAY

UF positron decay  
 \*BT1 beta decay  
 RT beta-plus decay radioisotopes  
 RT delayed protons  
 RT electron capture decay

#### BETA-PLUS DECAY RADIOISOTOPES

1997-02-07

\*BT1 beta decay radioisotopes

NT1 aluminium 22  
 NT1 aluminium 23  
 NT1 aluminium 24  
 NT1 aluminium 25  
 NT1 aluminium 26  
 NT1 americium 235  
 NT1 americium 236  
 NT1 antimony 104  
 NT1 antimony 105  
 NT1 antimony 108  
 NT1 antimony 110  
 NT1 antimony 111  
 NT1 antimony 112  
 NT1 antimony 113  
 NT1 antimony 114  
 NT1 antimony 115  
 NT1 antimony 116  
 NT1 antimony 117  
 NT1 antimony 118  
 NT1 antimony 120  
 NT1 antimony 122  
 NT1 argon 31  
 NT1 argon 32  
 NT1 argon 33  
 NT1 argon 34  
 NT1 argon 35  
 NT1 arsenic 66  
 NT1 arsenic 67  
 NT1 arsenic 68  
 NT1 arsenic 69  
 NT1 arsenic 70  
 NT1 arsenic 71  
 NT1 arsenic 72  
 NT1 arsenic 74  
 NT1 astatine 205  
 NT1 astatine 206  
 NT1 barium 114  
 NT1 barium 115  
 NT1 barium 116  
 NT1 barium 117  
 NT1 barium 118  
 NT1 barium 119  
 NT1 barium 120  
 NT1 barium 121  
 NT1 barium 122  
 NT1 barium 123  
 NT1 barium 124  
 NT1 barium 125  
 NT1 barium 126  
 NT1 barium 127  
 NT1 barium 129  
 NT1 berkelium 236  
 NT1 berkelium 238  
 NT1 bismuth 194  
 NT1 bismuth 197  
 NT1 bismuth 200  
 NT1 bismuth 202  
 NT1 bismuth 203  
 NT1 bismuth 205  
 NT1 bismuth 206  
 NT1 bismuth 207  
 NT1 boron 8  
 NT1 bromine 69  
 NT1 bromine 70  
 NT1 bromine 71  
 NT1 bromine 72  
 NT1 bromine 73  
 NT1 bromine 74  
 NT1 bromine 75  
 NT1 bromine 76  
 NT1 bromine 77  
 NT1 bromine 78  
 NT1 bromine 80  
 NT1 cadmium 100  
 NT1 cadmium 101

NT1 cadmium 102	NT1 dysprosium 155	NT1 hafnium 169
NT1 cadmium 103	NT1 dysprosium 157	NT1 holmium 145
NT1 cadmium 104	NT1 erbium 145	NT1 holmium 146
NT1 cadmium 105	NT1 erbium 146	NT1 holmium 147
NT1 cadmium 107	NT1 erbium 147	NT1 holmium 148
NT1 cadmium 97	NT1 erbium 148	NT1 holmium 149
NT1 cadmium 98	NT1 erbium 149	NT1 holmium 150
NT1 cadmium 99	NT1 erbium 150	NT1 holmium 151
NT1 calcium 36	NT1 erbium 151	NT1 holmium 152
NT1 calcium 37	NT1 erbium 152	NT1 holmium 153
NT1 calcium 38	NT1 erbium 153	NT1 holmium 154
NT1 calcium 39	NT1 erbium 154	NT1 holmium 155
NT1 carbon 10	NT1 erbium 155	NT1 holmium 156
NT1 carbon 11	NT1 erbium 156	NT1 holmium 157
NT1 carbon 9	NT1 erbium 157	NT1 holmium 158
NT1 cerium 121	NT1 erbium 158	NT1 holmium 160
NT1 cerium 125	NT1 erbium 159	NT1 holmium 162
NT1 cerium 127	NT1 erbium 161	NT1 indium 100
NT1 cerium 128	NT1 erbium 163	NT1 indium 103
NT1 cerium 129	NT1 europium 132	NT1 indium 104
NT1 cerium 130	NT1 europium 134	NT1 indium 105
NT1 cerium 131	NT1 europium 135	NT1 indium 106
NT1 cerium 132	NT1 europium 136	NT1 indium 107
NT1 cerium 133	NT1 europium 138	NT1 indium 108
NT1 cerium 135	NT1 europium 139	NT1 indium 109
NT1 cerium 137	NT1 europium 140	NT1 indium 110
NT1 cesium 114	NT1 europium 141	NT1 indium 112
NT1 cesium 115	NT1 europium 142	NT1 indium 114
NT1 cesium 116	NT1 europium 143	NT1 iodine 110
NT1 cesium 117	NT1 europium 144	NT1 iodine 111
NT1 cesium 118	NT1 europium 145	NT1 iodine 112
NT1 cesium 119	NT1 europium 146	NT1 iodine 113
NT1 cesium 120	NT1 europium 147	NT1 iodine 114
NT1 cesium 121	NT1 europium 148	NT1 iodine 115
NT1 cesium 122	NT1 europium 150	NT1 iodine 116
NT1 cesium 123	NT1 europium 152	NT1 iodine 117
NT1 cesium 124	NT1 fluorine 17	NT1 iodine 118
NT1 cesium 125	NT1 fluorine 18	NT1 iodine 119
NT1 cesium 126	NT1 gadolinium 135	NT1 iodine 120
NT1 cesium 127	NT1 gadolinium 137	NT1 iodine 121
NT1 cesium 128	NT1 gadolinium 139	NT1 iodine 122
NT1 cesium 129	NT1 gadolinium 142	NT1 iodine 124
NT1 cesium 130	NT1 gadolinium 143	NT1 iodine 126
NT1 cesium 132	NT1 gadolinium 144	NT1 iodine 128
NT1 chlorine 31	NT1 gadolinium 145	NT1 iridium 178
NT1 chlorine 32	NT1 gadolinium 146	NT1 iridium 179
NT1 chlorine 33	NT1 gadolinium 147	NT1 iridium 180
NT1 chlorine 34	NT1 gallium 60	NT1 iridium 181
NT1 chlorine 36	NT1 gallium 62	NT1 iridium 182
NT1 chromium 42	NT1 gallium 63	NT1 iridium 183
NT1 chromium 45	NT1 gallium 64	NT1 iridium 184
NT1 chromium 46	NT1 gallium 65	NT1 iridium 185
NT1 chromium 47	NT1 gallium 66	NT1 iridium 186
NT1 chromium 49	NT1 gallium 68	NT1 iridium 188
NT1 cobalt 52	NT1 germanium 61	NT1 iridium 190
NT1 cobalt 53	NT1 germanium 63	NT1 iron 45
NT1 cobalt 54	NT1 germanium 64	NT1 iron 46
NT1 cobalt 55	NT1 germanium 65	NT1 iron 49
NT1 cobalt 56	NT1 germanium 66	NT1 iron 51
NT1 cobalt 58	NT1 germanium 67	NT1 iron 52
NT1 copper 56	NT1 germanium 69	NT1 iron 53
NT1 copper 57	NT1 gold 182	NT1 krypton 69
NT1 copper 58	NT1 gold 184	NT1 krypton 71
NT1 copper 59	NT1 gold 185	NT1 krypton 72
NT1 copper 60	NT1 gold 186	NT1 krypton 73
NT1 copper 61	NT1 gold 187	NT1 krypton 74
NT1 copper 62	NT1 gold 188	NT1 krypton 75
NT1 copper 64	NT1 gold 189	NT1 krypton 77
NT1 curium 232	NT1 gold 190	NT1 krypton 79
NT1 dysprosium 140	NT1 gold 192	NT1 lanthanum 121
NT1 dysprosium 145	NT1 gold 194	NT1 lanthanum 125
NT1 dysprosium 146	NT1 gold 196	NT1 lanthanum 126
NT1 dysprosium 147	NT1 hafnium 154	NT1 lanthanum 127
NT1 dysprosium 148	NT1 hafnium 155	NT1 lanthanum 128
NT1 dysprosium 149	NT1 hafnium 162	NT1 lanthanum 129
NT1 dysprosium 150	NT1 hafnium 163	NT1 lanthanum 130
NT1 dysprosium 151	NT1 hafnium 166	NT1 lanthanum 131
NT1 dysprosium 152	NT1 hafnium 167	NT1 lanthanum 132
NT1 dysprosium 153	NT1 hafnium 168	NT1 lanthanum 133

NT1 lanthanum 134  
 NT1 lanthanum 135  
 NT1 lanthanum 136  
 NT1 lead 187  
 NT1 lead 188  
 NT1 lead 189  
 NT1 lead 190  
 NT1 lead 191  
 NT1 lead 192  
 NT1 lead 193  
 NT1 lead 194  
 NT1 lead 195  
 NT1 lead 199  
 NT1 lead 201  
 NT1 lutetium 153  
 NT1 lutetium 161  
 NT1 lutetium 162  
 NT1 lutetium 163  
 NT1 lutetium 164  
 NT1 lutetium 165  
 NT1 lutetium 166  
 NT1 lutetium 167  
 NT1 lutetium 168  
 NT1 lutetium 169  
 NT1 lutetium 170  
 NT1 lutetium 171  
 NT1 lutetium 174  
 NT1 magnesium 20  
 NT1 magnesium 21  
 NT1 magnesium 22  
 NT1 magnesium 23  
 NT1 manganese 48  
 NT1 manganese 49  
 NT1 manganese 50  
 NT1 manganese 51  
 NT1 manganese 52  
 NT1 mercury 179  
 NT1 mercury 181  
 NT1 mercury 182  
 NT1 mercury 183  
 NT1 mercury 184  
 NT1 mercury 185  
 NT1 mercury 186  
 NT1 mercury 187  
 NT1 mercury 188  
 NT1 mercury 191  
 NT1 mercury 193  
 NT1 molybdenum 86  
 NT1 molybdenum 87  
 NT1 molybdenum 88  
 NT1 molybdenum 89  
 NT1 molybdenum 90  
 NT1 molybdenum 91  
 NT1 neodymium 127  
 NT1 neodymium 128  
 NT1 neodymium 129  
 NT1 neodymium 130  
 NT1 neodymium 131  
 NT1 neodymium 132  
 NT1 neodymium 133  
 NT1 neodymium 134  
 NT1 neodymium 135  
 NT1 neodymium 136  
 NT1 neodymium 137  
 NT1 neodymium 138  
 NT1 neodymium 139  
 NT1 neodymium 141  
 NT1 neon 17  
 NT1 neon 18  
 NT1 neon 19  
 NT1 neptunium 234  
 NT1 nickel 49  
 NT1 nickel 50  
 NT1 nickel 52  
 NT1 nickel 53  
 NT1 nickel 55  
 NT1 nickel 56  
 NT1 nickel 57  
 NT1 niobium 83

NT1 niobium 84  
 NT1 niobium 85  
 NT1 niobium 87  
 NT1 niobium 88  
 NT1 niobium 89  
 NT1 niobium 90  
 NT1 niobium 92  
 NT1 nitrogen 12  
 NT1 nitrogen 13  
 NT1 osmium 172  
 NT1 osmium 173  
 NT1 osmium 174  
 NT1 osmium 175  
 NT1 osmium 176  
 NT1 osmium 177  
 NT1 osmium 178  
 NT1 osmium 179  
 NT1 osmium 181  
 NT1 osmium 183  
 NT1 oxygen 13  
 NT1 oxygen 14  
 NT1 oxygen 15  
 NT1 palladium 101  
 NT1 palladium 93  
 NT1 palladium 94  
 NT1 palladium 95  
 NT1 palladium 97  
 NT1 palladium 98  
 NT1 palladium 99  
 NT1 phosphorus 26  
 NT1 phosphorus 28  
 NT1 phosphorus 29  
 NT1 phosphorus 30  
 NT1 platinum 174  
 NT1 platinum 182  
 NT1 platinum 183  
 NT1 platinum 184  
 NT1 platinum 185  
 NT1 platinum 187  
 NT1 platinum 189  
 NT1 polonium 198  
 NT1 polonium 199  
 NT1 polonium 200  
 NT1 polonium 201  
 NT1 polonium 202  
 NT1 polonium 203  
 NT1 polonium 205  
 NT1 polonium 207  
 NT1 potassium 35  
 NT1 potassium 36  
 NT1 potassium 37  
 NT1 potassium 38  
 NT1 potassium 40  
 NT1 praseodymium 126  
 NT1 praseodymium 127  
 NT1 praseodymium 129  
 NT1 praseodymium 130  
 NT1 praseodymium 131  
 NT1 praseodymium 132  
 NT1 praseodymium 133  
 NT1 praseodymium 134  
 NT1 praseodymium 135  
 NT1 praseodymium 136  
 NT1 praseodymium 137  
 NT1 praseodymium 138  
 NT1 praseodymium 139  
 NT1 praseodymium 140  
 NT1 promethium 132  
 NT1 promethium 133  
 NT1 promethium 134  
 NT1 promethium 135  
 NT1 promethium 136  
 NT1 promethium 137  
 NT1 promethium 138  
 NT1 promethium 139  
 NT1 promethium 140  
 NT1 promethium 141  
 NT1 promethium 142  
 NT1 protactinium 230

NT1 radon 207  
 NT1 radon 209  
 NT1 rhenium 165  
 NT1 rhenium 170  
 NT1 rhenium 171  
 NT1 rhenium 172  
 NT1 rhenium 174  
 NT1 rhenium 175  
 NT1 rhenium 176  
 NT1 rhenium 177  
 NT1 rhenium 178  
 NT1 rhenium 179  
 NT1 rhenium 180  
 NT1 rhenium 182  
 NT1 rhodium 100  
 NT1 rhodium 102  
 NT1 rhodium 91  
 NT1 rhodium 92  
 NT1 rhodium 93  
 NT1 rhodium 94  
 NT1 rhodium 95  
 NT1 rhodium 96  
 NT1 rhodium 97  
 NT1 rhodium 98  
 NT1 rhodium 99  
 NT1 rubidium 73  
 NT1 rubidium 74  
 NT1 rubidium 75  
 NT1 rubidium 76  
 NT1 rubidium 77  
 NT1 rubidium 78  
 NT1 rubidium 79  
 NT1 rubidium 80  
 NT1 rubidium 81  
 NT1 rubidium 82  
 NT1 rubidium 84  
 NT1 ruthenium 88  
 NT1 ruthenium 89  
 NT1 ruthenium 92  
 NT1 ruthenium 93  
 NT1 ruthenium 95  
 NT1 samarium 132  
 NT1 samarium 133  
 NT1 samarium 134  
 NT1 samarium 135  
 NT1 samarium 136  
 NT1 samarium 137  
 NT1 samarium 138  
 NT1 samarium 139  
 NT1 samarium 140  
 NT1 samarium 141  
 NT1 samarium 142  
 NT1 samarium 143  
 NT1 scandium 40  
 NT1 scandium 41  
 NT1 scandium 42  
 NT1 scandium 43  
 NT1 scandium 44  
 NT1 selenium 65  
 NT1 selenium 67  
 NT1 selenium 68  
 NT1 selenium 69  
 NT1 selenium 70  
 NT1 selenium 71  
 NT1 selenium 73  
 NT1 silicon 24  
 NT1 silicon 25  
 NT1 silicon 26  
 NT1 silicon 27  
 NT1 silver 100  
 NT1 silver 101  
 NT1 silver 102  
 NT1 silver 103  
 NT1 silver 104  
 NT1 silver 105  
 NT1 silver 106  
 NT1 silver 108  
 NT1 silver 94  
 NT1 silver 96



NT1 silver 98  
 NT1 silver 99  
 NT1 sodium 20  
 NT1 sodium 21  
 NT1 sodium 22  
 NT1 strontium 75  
 NT1 strontium 76  
 NT1 strontium 77  
 NT1 strontium 78  
 NT1 strontium 79  
 NT1 strontium 80  
 NT1 strontium 81  
 NT1 strontium 83  
 NT1 sulfur 28  
 NT1 sulfur 29  
 NT1 sulfur 30  
 NT1 sulfur 31  
 NT1 tantalum 165  
 NT1 tantalum 166  
 NT1 tantalum 167  
 NT1 tantalum 168  
 NT1 tantalum 169  
 NT1 tantalum 170  
 NT1 tantalum 171  
 NT1 tantalum 172  
 NT1 tantalum 173  
 NT1 tantalum 174  
 NT1 tantalum 175  
 NT1 tantalum 176  
 NT1 tantalum 177  
 NT1 tantalum 178  
 NT1 technetium 88  
 NT1 technetium 89  
 NT1 technetium 90  
 NT1 technetium 91  
 NT1 technetium 92  
 NT1 technetium 93  
 NT1 technetium 94  
 NT1 technetium 95  
 NT1 technetium 96  
 NT1 tellurium 107  
 NT1 tellurium 108  
 NT1 tellurium 109  
 NT1 tellurium 110  
 NT1 tellurium 111  
 NT1 tellurium 112  
 NT1 tellurium 113  
 NT1 tellurium 114  
 NT1 tellurium 115  
 NT1 tellurium 116  
 NT1 tellurium 117  
 NT1 tellurium 118  
 NT1 tellurium 119  
 NT1 tellurium 121  
 NT1 terbium 139  
 NT1 terbium 141  
 NT1 terbium 143  
 NT1 terbium 144  
 NT1 terbium 145  
 NT1 terbium 146  
 NT1 terbium 147  
 NT1 terbium 148  
 NT1 terbium 149  
 NT1 terbium 150  
 NT1 terbium 151  
 NT1 terbium 152  
 NT1 terbium 153  
 NT1 terbium 154  
 NT1 terbium 156  
 NT1 thallium 182  
 NT1 thallium 184  
 NT1 thallium 186  
 NT1 thallium 188  
 NT1 thallium 189  
 NT1 thallium 190  
 NT1 thallium 191  
 NT1 thallium 192  
 NT1 thallium 193  
 NT1 thallium 194

NT1 thallium 195  
 NT1 thallium 196  
 NT1 thallium 197  
 NT1 thallium 198  
 NT1 thallium 200  
 NT1 thulium 148  
 NT1 thulium 156  
 NT1 thulium 157  
 NT1 thulium 158  
 NT1 thulium 159  
 NT1 thulium 160  
 NT1 thulium 161  
 NT1 thulium 162  
 NT1 thulium 163  
 NT1 thulium 164  
 NT1 thulium 165  
 NT1 thulium 166  
 NT1 tin 100  
 NT1 tin 102  
 NT1 tin 103  
 NT1 tin 105  
 NT1 tin 106  
 NT1 tin 107  
 NT1 tin 108  
 NT1 tin 109  
 NT1 tin 111  
 NT1 titanium 39  
 NT1 titanium 40  
 NT1 titanium 41  
 NT1 titanium 42  
 NT1 titanium 43  
 NT1 titanium 45  
 NT1 tungsten 168  
 NT1 tungsten 169  
 NT1 tungsten 170  
 NT1 tungsten 171  
 NT1 tungsten 172  
 NT1 tungsten 173  
 NT1 tungsten 175  
 NT1 tungsten 177  
 NT1 tungsten 190  
 NT1 vanadium 42  
 NT1 vanadium 43  
 NT1 vanadium 44  
 NT1 vanadium 45  
 NT1 vanadium 46  
 NT1 vanadium 47  
 NT1 vanadium 48  
 NT1 xenon 110  
 NT1 xenon 111  
 NT1 xenon 112  
 NT1 xenon 113  
 NT1 xenon 114  
 NT1 xenon 115  
 NT1 xenon 116  
 NT1 xenon 117  
 NT1 xenon 118  
 NT1 xenon 119  
 NT1 xenon 120  
 NT1 xenon 121  
 NT1 xenon 122  
 NT1 xenon 123  
 NT1 xenon 125  
 NT1 ytterbium 153  
 NT1 ytterbium 158  
 NT1 ytterbium 160  
 NT1 ytterbium 161  
 NT1 ytterbium 162  
 NT1 ytterbium 163  
 NT1 ytterbium 165  
 NT1 ytterbium 167  
 NT1 yttrium 79  
 NT1 yttrium 80  
 NT1 yttrium 81  
 NT1 yttrium 82  
 NT1 yttrium 83  
 NT1 yttrium 84  
 NT1 yttrium 85  
 NT1 yttrium 86

NT1 yttrium 87  
 NT1 yttrium 88  
 NT1 zinc 57  
 NT1 zinc 59  
 NT1 zinc 60  
 NT1 zinc 61  
 NT1 zinc 62  
 NT1 zinc 63  
 NT1 zinc 65  
 NT1 zirconium 81  
 NT1 zirconium 82  
 NT1 zirconium 83  
 NT1 zirconium 84  
 NT1 zirconium 85  
 NT1 zirconium 87  
 NT1 zirconium 89  
 RT beta-plus decay

**BETA RADIOGRAPHY**

1976-10-29

*A technique for examining papers, thin foils, and other thin materials.*

\*BT1 industrial radiography

**BETA RATIO**

BT1 dimensionless numbers

RT high-beta plasma

RT low-beta plasma

RT magnetic fields

RT medium-beta plasma

RT plasma pressure

RT reversed-field pinch devices

**BETA SOURCES**

\*BT1 particle sources

RT beta particles

**BETA SPECTRA**

BT1 spectra

RT beta decay

RT beta spectrometers

**BETA SPECTROMETERS**

\*BT1 spectrometers

RT beta detection

RT beta spectra

RT electron detection

**beta spectrometry***INIS: 1975-10-23; ETDE: 2002-06-13*

USE beta spectroscopy

**BETA SPECTROSCOPY**

UF beta spectrometry

BT1 spectroscopy

RT beta detection

**BETA-W LATTICES**

UF a-15 compounds

\*BT1 crystal lattices

**BETAINE**

\*BT1 amino acids

\*BT1 lipotropic factors

\*BT1 quaternary compounds

RT carnitine

**BETATRON OSCILLATIONS**

\*BT1 beam dynamics

BT1 oscillations

RT q-shift

**BETATRONS**

\*BT1 cyclic accelerators

RT plasma betatrons

**BETA-VOLTAIC CELLS**

\*BT1 direct collection converters

RT semiconductor diodes

**bethe-goldstone approximation**

USE bethe-goldstone equation

**BETHE-GOLDSTONE EQUATION**

UF *bethe-goldstone approximation*  
 BT1 equations  
 RT many-body problem

**bethe-heitler-schiff formula**

USE *bethe-heitler theory*

**BETHE-HEITLER THEORY**

UF *bethe-heitler-schiff formula*  
 RT branching ratio  
 RT bremsstrahlung  
 RT pair production

**bethe-hurwitz effect**

USE *hurwitz effect*

**bethe-placzec model**

USE *placzec function*

**BETHE-SALPETER EQUATION**

BT1 equations  
 RT blankenbecler-sugar equations  
 RT quantum field theory

**BETHE-TAIT METHOD**

RT mathematics  
 RT reactor safety

**bethe-weizsaecker cycle**

INIS: 1978-09-28; ETDE: 1979-05-03  
 USE *cno cycle*

**bethe-weizsaecker relation**

USE *weizsaecker formula*

**BETTIS**

*Bettis Atomic Power Laboratory.*

\*BT1 *us aec*  
 \*BT1 *us doe*  
 \*BT1 *us erda*  
 RT *pennsylvania*

**betula**

ETDE: 2002-06-13  
 USE *trees*

**BEVALAC**

INIS: 1999-01-20; ETDE: 1975-10-01  
*A linking of the Superhilac to the Bevatron.*  
 UF *berkeley bevalac*  
 \*BT1 *cyclic accelerators*  
 RT *bevatron*  
 RT *superhilac*

**BEVATRON**

\*BT1 *synchrotrons*  
 RT *bevalac*

**BEVERAGE INDUSTRY**

INIS: 2000-04-12; ETDE: 1980-01-15  
 BT1 *industry*  
 RT *food industry*  
 RT *glass industry*  
 RT *metal industry*

**BEVERAGES**

UF *coffee*  
 UF *juices*  
 UF *tea*  
 UF *wine*  
 BT1 *food*  
 RT *coffee beans*  
 RT *diet*  
 RT *drinking water*  
 RT *ingestion*  
 RT *milk*  
 RT *tea leaves*  
 RT *tea plants*

**BEZNAU-1 REACTOR**

*Bezau, Doettingen, Switzerland.*  
 UF *nok-1 reactor*

UF *nordostschweizerische kraftwerk-1 reaktor*

\*BT1 *pwr type reactors*

**BEZNAU-2 REACTOR**

*Bezau, Doettingen, Switzerland.*

UF *nok-2 reactor*

UF *nordostschweizerische kraftwerk-2 reaktor*

\*BT1 *pwr type reactors*

**bf-wf process**

INIS: 2000-04-12; ETDE: 1977-04-14  
 USE *desulfurization*

**BF3 COUNTERS**

\*BT1 *neutron detectors*  
 \*BT1 *proportional counters*  
 RT *moderating detectors*

**bfs**

1991-05-02  
 USE *bundesamt fuer strahlenschutz*

**BFS REACTOR**

1996-07-10  
*Obninsk fast assembly.*

\*BT1 *fast reactors*  
 \*BT1 *zero power reactors*

**BGC-LURGI SLAGGING PROCESS**

INIS: 1992-10-20; ETDE: 1982-03-10  
 \*BT1 *coal gasification*

**BGO DETECTORS**

INIS: 1984-08-24; ETDE: 1984-07-10  
 UF *bismuth germanate detectors*  
 \*BT1 *solid scintillation detectors*

**BGRR REACTOR**

*BNL, Upton, New York, USA. Shut down in 1969.*

UF *brookhaven graphite research reactor*

\*BT1 *air cooled reactors*  
 \*BT1 *enriched uranium reactors*  
 \*BT1 *graphite moderated reactors*  
 \*BT1 *isotope production reactors*  
 \*BT1 *research reactors*  
 \*BT1 *test reactors*  
 \*BT1 *thermal reactors*  
 \*BT1 *training reactors*

**bhabha atomic research center**

USE *barc*

**BHABHA SCATTERING**

\*BT1 *elastic scattering*  
 RT *moeller scattering*  
 RT *quantum electrodynamics*

**BHUTAN**

INIS: 1990-01-30; ETDE: 1990-02-13  
 BT1 *asia*  
 BT1 *developing countries*

**BHWR TYPE REACTORS**

UF *boiling heavy water cooled and moderated reactor*  
 \*BT1 *heavy water cooled reactors*  
 \*BT1 *heavy water moderated reactors*  
 NT1 *hbwr reactor*  
 NT1 *marviken reactor*  
 RT *power reactors*

**BI-GAS PROCESS**

2000-04-12  
*Bituminous coal research, inc. Process for producing intermediate or high btu gas by reaction of coal with steam in a gasifier operating at 1000-1500 psi and 3000 and 1700 degrees F in stage 1 and stage 2, respectively. The gasifier may be operated on*

*air rather than oxygen at moderate pressures to produce a low btu gas.*

\*BT1 *coal gasification*  
 RT *sng processes*

**BIBENZYL**

UF *1,2-diphenylethane*  
 UF *diphenylethane (1,2-)*  
 \*BT1 *aromatics*

**BIBLIOGRAPHIES**

*Use only in conjunction with literary indicator Z for indexing true bibliographies.*  
 BT1 *document types*

**BIBLIS-1 REACTOR**

INIS: 1990-12-07; ETDE: 1991-01-22  
*Biblis, Hessen, Federal Republic of Germany. (Prior to December 1990, this was indexed by BIBLIS REACTOR.)*

UF *biblis-a reactor*  
 UF *biblis reactor*  
 UF *kernkraftwerk biblis*  
 UF *kernkraftwerk biblis-a*  
 \*BT1 *pwr type reactors*

**BIBLIS-2 REACTOR**

INIS: 1990-12-07; ETDE: 1991-01-22  
*Biblis, Hessen, Federal Republic of Germany. (Prior to December 1990, this was indexed by BIBLIS-B REACTOR.)*

UF *biblis-b reactor*  
 UF *kernkraftwerk biblis-b*  
 \*BT1 *pwr type reactors*

**BIBLIS-3 REACTOR**

INIS: 1976-10-07; ETDE: 1976-11-01  
*Biblis, Hessen, Federal Republic of Germany.*

UF *biblis-c reactor*  
 UF *kernkraftwerk biblis-3*  
 \*BT1 *pwr type reactors*

**BIBLIS-4 REACTOR**

INIS: 1976-10-07; ETDE: 1976-11-01  
*Biblis, Hessen, Federal Republic of Germany.*

UF *biblis-d reactor*  
 UF *kernkraftwerk biblis-4*  
 \*BT1 *pwr type reactors*

**biblis-a reactor**

2000-04-12  
*Biblis, Hessen, Federal Republic of Germany.*  
 USE *biblis-1 reactor*

**biblis-b reactor**

1990-12-07  
 USE *biblis-2 reactor*

**biblis-c reactor**

INIS: 1976-10-07; ETDE: 1976-11-02  
*Biblis, Hessen, Federal Republic of Germany.*  
 USE *biblis-3 reactor*

**biblis-d reactor**

INIS: 1976-10-07; ETDE: 1976-11-02  
*Biblis, Hessen, Federal Republic of Germany.*  
 USE *biblis-4 reactor*

**biblis reactor**

1990-12-07  
 (Prior to December 1990, this was a valid descriptor.)  
 USE *biblis-1 reactor*

**bicarbonates**

INIS: 1985-11-18; ETDE: 1977-07-23  
 (Prior to December 1985 this was a valid descriptor.)  
 USE *acid carbonates*

**BICRYSTALS**

1994-07-01

(Until June 1994 this concept was indexed to POLYCRYSTALS.)

\*BT1 polycrystals

**BICYCLES**

INIS: 2000-04-12; ETDE: 1976-08-04

BT1 vehicles

**bids**

INIS: 1999-03-15; ETDE: 1978-06-14

(Prior to March 1996 this was a valid ETDE descriptor.)

USE proposals

**biedenharn-rose theory**

1996-07-16

(Until July 1996 this was a valid descriptor.)

SEE angular correlation

SEE angular distribution

**biexcitons**

INIS: 1984-04-04; ETDE: 2002-06-13

USE excitons

**BIFURCATION**

1994-02-28

*The abrupt appearance of a new solution of a mathematical equation at some critical parameter value.*

RT chemical reaction kinetics

RT control

RT differential equations

RT dispersion relations

RT dynamics

RT instability

RT mathematical models

RT non-equilibrium plasma

RT phase transformations

RT wave propagation

**BIG ROCK POINT REACTOR**

Consumers Power Co., Charlevoix, Michigan, USA. Shut down in 1997.

\*BT1 bwr type reactors

**BIG TEN REACTOR**

LANL, Los Alamos, New Mexico, USA.

\*BT1 zero power reactors

**BIGR REACTOR**

INIS: 1986-12-09; ETDE: 1987-02-24

\*BT1 enriched uranium reactors

\*BT1 fast reactors

\*BT1 graphite moderated reactors

\*BT1 pulsed reactors

\*BT1 research reactors

**BIKINI**

\*BT1 marshall islands

RT castle project

RT redwing project

**BILATERAL AGREEMENTS**

\*BT1 international agreements

RT transfrontier contamination

RT transfrontier pollution

**bilbao argonaut reactor**

USE arbi reactor

**BILE**

1996-10-22

\*BT1 body fluids

RT bile acids

RT biliary tract

RT bilirubin

**BILE ACIDS**

\*BT1 carboxylic acids

\*BT1 sterols

NT1 cholic acid

RT bile

**bile ducts**

USE biliary tract

**BILIARY TRACT**

UF bile ducts

UF gallbladder

UF gallstones

BT1 digestive system

RT bile

RT glucuronide conjugates

RT glutathione conjugates

RT liver

**BILIBIN REACTOR***Chukotka region, Russian Federation.*

UF chukotka reactor

\*BT1 experimental reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**BILIRUBIN**

\*BT1 heterocyclic acids

BT1 pigments

\*BT1 pyrroles

RT bile

**biliverdin**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE heterocyclic acids

USE pigments

USE pyrroles

**billet event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**BILLIETITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 uranium minerals

RT barium oxides

RT uranium oxides

**billitonites**

USE tektites

**bimetallic corrosion**

USE electrochemical corrosion

**BIMETALS**

RT switches

**BINARY ALLOY SYSTEMS**

BT1 alloy systems

**BINARY ENCOUNTER METHOD**

BT1 calculation methods

RT scattering

**BINARY FISSION**

\*BT1 fission

**BINARY-FLUID SYSTEMS**

INIS: 2000-04-12; ETDE: 1976-03-31

*A system in which hot fluid is passed through a heat exchanger to transfer heat to a low-boiling point fluid (such as freon or isobutane), which is then used as the working fluid in a vapor-turbine cycle.*

UF magmamax process

BT1 energy systems

RT geothermal energy conversion

RT geothermal power plants

RT thermodynamic cycles

**BINARY MIXTURES**

\*BT1 mixtures

RT alloys

**BINARY STARS**

BT1 stars

NT1 eruptive variable stars

NT2 novae

NT2 supernovae

NT2 t tauri stars

RT roche equipotentials

RT symbiotic stars

**BINDERS**

RT adhesives

RT fillers

**BINDING ENERGY***For chemical and nuclear bonding. For bonding of materials, see also BONDING.*

UF electron acceptor

UF electron donor

UF separation energy

BT1 energy

NT1 neutron separation energy

NT1 pairing energy

RT bond angle

RT bond lengths

RT chemical bonds

RT coulomb energy

RT covalence

RT double bonds

RT heitler-london theory

RT interatomic forces

RT intermolecular forces

RT ionization potential

RT majorana theory

RT mass defect

RT nuclear forces

RT work functions

**bioaccumulation**

INIS: 2000-04-12; ETDE: 1976-05-17

USE biological accumulation

**BIOADSORBENTS***Biological materials with adsorptive capacity.*

BT1 adsorbents

RT adsorption

RT decontamination

RT fungi

RT liquid wastes

RT sorptive properties

**BIOASSAY**

1999-03-26

UF biological testing

UF testing (biological)

NT1 immunoassay

NT2 enzyme immunoassay

NT2 radioimmunoassay

RT carcinogen screening

RT comparative evaluations

RT performance testing

RT plaque formation

RT radioassay

RT radioreceptor assay

**biocenoses**

USE ecosystems

**biochemical activity**

USE biochemistry

**BIOCHEMICAL FUEL CELLS**

2000-04-12

\*BT1 fuel cells

**BIOCHEMICAL OXYGEN DEMAND**

INIS: 1992-01-15; ETDE: 1975-10-28

*The amount of oxygen necessary for the oxidative decomposition of a material by microorganisms.*

UF biological oxygen demand

UF bod

RT aquatic ecosystems  
 RT biochemistry  
 RT chemical oxygen demand  
 RT dissolved gases  
 RT liquid wastes  
 RT oxygen

## BIOCHEMICAL REACTION KINETICS

\*BT1 reaction kinetics  
 NT1 cpb  
 RT biochemistry  
 RT biological markers  
 RT detoxification  
 RT enzyme activity  
 RT enzymes  
 RT metabolic diseases  
 RT metabolism  
 RT protein engineering

## BIOCHEMISTRY

UF biochemical activity  
 BT1 chemistry  
 NT1 blood chemistry  
 NT1 cytochemistry  
 RT antiandrogens  
 RT biochemical oxygen demand  
 RT biochemical reaction kinetics  
 RT bioconversion  
 RT biodegradation  
 RT biological evolution  
 RT biology  
 RT bioluminescence  
 RT biosynthesis  
 RT coenzymes  
 RT enzymes  
 RT fermentation  
 RT hormones  
 RT metabolism  
 RT receptors  
 RT soil chemistry  
 RT synergism  
 RT vitamins

## BIOCONVERSION

INIS: 1991-09-23; ETDE: 1977-12-22  
 SF microbial processes  
 NT1 aerobic digestion  
 NT1 anaerobic digestion  
 NT2 biogas process  
 NT1 biophotolysis  
 NT1 fermentation  
 NT2 vacuum fermentation  
 RT biochemistry  
 RT biomass  
 RT biotechnology  
 RT biothermegas process  
 RT photolysis

## BIODEGRADATION

1991-08-09  
 SF microbial processes  
 \*BT1 decomposition  
 RT aerobic conditions  
 RT anaerobic conditions  
 RT biochemistry  
 RT bioreactors  
 RT detritus  
 RT enzymatic hydrolysis

## biodiversity

INIS: 1992-01-09; ETDE: 2002-06-13  
 USE species diversity

## BIOELECTRICITY

INIS: 1983-09-06; ETDE: 1982-07-27  
 UF neuron transmission  
 BT1 electricity  
 RT electrophysiology  
 RT nerve cells  
 RT receptors

RT stimuli

## BIOFLAVONOIDS

UF vitamin p  
 BT1 vitamins

## biofouling

INIS: 1984-04-04; ETDE: 1976-08-25  
 USE biological fouling

## BIOFUELS

2004-08-30  
*Fuels obtained from biological raw materials.*  
 UF biomass fuels  
 BT1 fuels  
 NT1 wood fuels  
 RT biomass

## biogas

INIS: 2000-04-12; ETDE: 1983-03-23  
 USE methane

## BIOGAS PROCESS

INIS: 1992-09-09; ETDE: 1975-10-28  
*An anaerobic digestion process for converting solid municipal waste and sewage into pipeline quality fuel gas and an odor free, stable solid.*  
 UF igt waste process  
 \*BT1 anaerobic digestion  
 RT waste processing plants

## biogeocenoses

USE ecosystems

## BIOGEOCHEMISTRY

\*BT1 geochemistry  
 RT biological evolution  
 RT biology  
 RT geobotany  
 RT mineral cycling

## BIOINTRUSION

INIS: 1985-07-23; ETDE: 1987-10-23  
*Breaching by plants or animals of natural or man-made barriers, e.g. at waste disposal sites. Not for HUMAN INTRUSION.*  
 UF intrusion (animals)  
 UF intrusion (plants)  
 SF intrusion  
 RT environmental exposure pathway  
 RT fences  
 RT nuclear facilities  
 RT physical protection  
 RT radioactive waste disposal  
 RT radioactive waste facilities

## BIOLOGICAL ACCUMULATION

INIS: 2000-04-12; ETDE: 1976-05-13  
*The abnormal or preferential accumulation of a material from the environment by a plant or animal.*  
 UF bioaccumulation  
 RT biological localization

## BIOLOGICAL ADAPTATION

INIS: 1990-12-05; ETDE: 1975-10-28  
 (Prior to December 1990, this concept was indexed by ACCLIMATION.)  
 UF acclimation  
 RT behavior  
 RT biological recovery  
 RT biological variability  
 RT ecology  
 RT environment  
 RT heat-shock proteins  
 RT sensitivity  
 RT tolerance

## BIOLOGICAL AVAILABILITY

INIS: 1985-12-11; ETDE: 1981-09-22  
*A measure of the ease with which a substance can be picked up by and incorporated into an organism.*  
 RT environmental exposure pathway  
 RT radionuclide migration  
 RT retention  
 RT uptake

## BIOLOGICAL DOSEMETERS

\*BT1 dosimeters  
 RT biological indicators

## BIOLOGICAL EFFECTS

NT1 biological radiation effects  
 NT2 abscopal radiation effects  
 NT2 delayed radiation effects  
 NT2 early radiation effects  
 NT2 genetic radiation effects  
 NT2 local radiation effects  
 NT3 osteoradionecrosis  
 NT3 radiation burns  
 NT3 radiodermatitis  
 NT2 radiation injuries  
 NT3 osteoradionecrosis  
 NT3 radiation burns  
 NT3 radiodermatitis  
 NT1 genetic effects  
 NT2 genetic radiation effects  
 RT acute exposure  
 RT biology  
 RT biophysics  
 RT chronic exposure  
 RT dose-response relationships  
 RT molecular biology  
 RT morphological changes  
 RT prenatal exposure  
 RT response modifying factors  
 RT sensitivity  
 RT structure-activity relationships  
 RT survival curves  
 RT synergism  
 RT toxicity

## BIOLOGICAL EVOLUTION

1983-06-30  
 UF speciation (biological)  
 BT1 evolution  
 RT biochemistry  
 RT biogeochemistry  
 RT biological extinction  
 RT biology  
 RT biosynthesis  
 RT fossils  
 RT genetics  
 RT geobotany  
 RT molecular biology  
 RT paleontology  
 RT redundancy

## BIOLOGICAL EXTINCTION

INIS: 1994-09-29; ETDE: 1982-10-05  
 RT animals  
 RT biological evolution  
 RT ecology  
 RT endangered species  
 RT paleontology  
 RT plants  
 RT populations  
 RT species diversity

## BIOLOGICAL FATIGUE

UF fatigue (biological)  
 RT biological stress  
 RT exercise

## biological fluids

INIS: 2000-04-12; ETDE: 1985-08-22  
 SEE body fluids

**BIOLOGICAL FOULING**

INIS: 1994-07-01; ETDE: 1975-11-28

(Until June 1994 this concept was indexed to FOULING.)

- UF *biofouling*  
 BT1 *fouling*  
 RT *algae*  
 RT *antifoulants*

**BIOLOGICAL FUNCTIONS**

INIS: 1976-01-28; ETDE: 1976-08-24

Coordinate with descriptors for the organs or functions involved.

- UF *function (biological)*  
 RT *biological pathways*  
 RT *dynamic function studies*  
 RT *metabolism*  
 RT *physiology*  
 RT *structure-activity relationships*

**BIOLOGICAL HALF-LIFE**

- UF *effective half-life*  
 UF *half-life (biological)*  
 UF *half-life (effective)*  
 RT *body burden*  
 RT *radionuclide kinetics*

**BIOLOGICAL HOT SPOTS**

- UF *hot spots (biological)*  
 RT *biological localization*  
 RT *bone seekers*  
 RT *radionuclide kinetics*  
 RT *retention*

**BIOLOGICAL INDICATORS**

- UF *indicator species*  
 RT *biological dosimeters*  
 RT *biological radiation effects*  
 RT *blood cells*  
 RT *blood plasma*  
 RT *bone marrow cells*  
 RT *chromosomal aberrations*  
 RT *dose-response relationships*  
 RT *early radiation effects*  
 RT *mutagen screening*  
 RT *nucleosides*  
 RT *radiation doses*  
 RT *radiation injuries*

**BIOLOGICAL LOCALIZATION**

The concentration of a specific material or a specific effect in a definite location of a biological system.

- UF *localization (biological)*  
 RT *banding techniques*  
 RT *biological accumulation*  
 RT *biological hot spots*  
 RT *bone seekers*  
 RT *radiation effects*  
 RT *radioecological concentration*  
 RT *radioisotopes*  
 RT *radionuclide kinetics*  
 RT *radiopharmaceuticals*  
 RT *retention*  
 RT *tissue distribution*

**BIOLOGICAL MARKERS**

INIS: 1984-08-24; ETDE: 1984-10-24

- UF *reference materials (bio mark)*  
 RT *biochemical reaction kinetics*  
 RT *biological pathways*  
 RT *dynamic function studies*  
 RT *metabolism*  
 RT *tracer techniques*

**BIOLOGICAL MATERIALS**

- UF *materials (biological)*  
 BT1 *materials*  
 NT1 *biological wastes*  
 NT2 *feces*  
 NT2 *manures*

- NT2 *sewage sludge*  
 NT2 *sweat*  
 NT2 *urine*  
 NT1 *body fluids*  
 NT2 *amniotic fluid*  
 NT2 *bile*  
 NT2 *blood*  
 NT3 *blood cells*  
 NT4 *blood platelets*  
 NT4 *erythrocytes*  
 NT5 *reticulocytes*  
 NT4 *leukocytes*  
 NT5 *basophils*  
 NT5 *eosinophils*  
 NT5 *lymphocytes*  
 NT5 *monocytes*  
 NT5 *natural killer cells*  
 NT5 *neutrophils*  
 NT3 *blood plasma*  
 NT4 *blood serum*  
 NT2 *cerebrospinal fluid*  
 NT2 *gastric acid*  
 NT2 *lymph*  
 NT2 *milk*  
 NT2 *saliva*  
 NT2 *sweat*  
 NT2 *urine*  
 NT1 *forest litter*  
 NT1 *plant sap*  
 NT1 *tissue extracts*  
 RT *animal tissues*  
 RT *animals*  
 RT *biomass*  
 RT *environmental materials*  
 RT *food*  
 RT *homogenates*  
 RT *plankton*  
 RT *plants*

**BIOLOGICAL MODELS**

- UF *models (biological)*  
 RT *analog systems*  
 RT *environmental exposure pathway*  
 RT *functional models*  
 RT *mathematical models*  
 RT *microcosms*  
 RT *mockup*  
 RT *phantoms*

**biological oxygen demand**

INIS: 2000-04-12; ETDE: 1981-01-12

USE *biochemical oxygen demand***BIOLOGICAL PATHWAYS**

INIS: 1978-11-24; ETDE: 1978-12-20

- UF *metabolic pathways*  
 UF *mutagenic pathways*  
 UF *mutation induction pathways*  
 UF *repair pathways*  
 NT1 *krebs cycle*  
 RT *biological functions*  
 RT *biological markers*  
 RT *biological repair*  
 RT *fermentation*  
 RT *metabolic activation*  
 RT *molecular biology*

**BIOLOGICAL RADIATION EFFECTS**

- UF *radiobiological effects*  
 BT1 *biological effects*  
 BT1 *radiation effects*  
 NT1 *abscopal radiation effects*  
 NT1 *delayed radiation effects*  
 NT1 *early radiation effects*  
 NT1 *genetic radiation effects*  
 NT1 *local radiation effects*  
 NT2 *osteoradionecrosis*  
 NT2 *radiation burns*  
 NT2 *radiodermatitis*  
 NT1 *radiation injuries*

- NT2 *osteoradionecrosis*  
 NT2 *radiation burns*  
 NT2 *radiodermatitis*  
 RT *biological indicators*  
 RT *biological stress*  
 RT *oxygen enhancement ratio*  
 RT *radiation chimeras*  
 RT *radiation doses*  
 RT *radiobiology*  
 RT *radioimmunology*  
 RT *radioinduction*  
 RT *radiosensitivity*  
 RT *rbe*  
 RT *strand breaks*  
 RT *teratogenesis*

**biological reactors**

INIS: 1986-05-23; ETDE: 1983-04-07

USE *bioreactors***BIOLOGICAL RECOVERY**

- UF *enhanced recovery (biological)*  
 UF *recovery (biological)*  
 UF *restoration*  
 SF *recovery*  
 NT1 *biological regeneration*  
 NT1 *biological repair*  
 NT2 *dna repair*  
 NT3 *excision repair*  
 NT2 *host-cell reactivation*  
 NT2 *photoreactivation*  
 NT1 *healing*  
 NT1 *liquid holding recovery*  
 RT *biological adaptation*  
 RT *homeostasis*  
 RT *post-irradiation therapy*  
 RT *response modifying factors*  
 RT *therapy*

**BIOLOGICAL REGENERATION**

- UF *regenerating liver*  
 UF *regeneration (biological)*  
 BT1 *biological recovery*  
 RT *animal tissues*  
 RT *growth*  
 RT *organs*  
 RT *viability*

**biological remediation**

2002-01-11

USE *bioremediation***BIOLOGICAL REPAIR**

- UF *repair (biological)*  
 BT1 *biological recovery*  
 BT1 *repair*  
 NT1 *dna repair*  
 NT2 *excision repair*  
 NT1 *host-cell reactivation*  
 NT1 *photoreactivation*  
 RT *biological pathways*  
 RT *dna polymerases*  
 RT *let*  
 RT *molecular structure*  
 RT *nucleic acids*  
 RT *radiation injuries*  
 RT *ultrastructural changes*

**biological research reactor janus**

1993-11-04

USE *janus reactor***BIOLOGICAL SHIELDING**

- BT1 *shielding*  
 RT *radiation protection*

**BIOLOGICAL SHIELDS**

- BT1 *shields*

**BIOLOGICAL SHOCK**

For all types of shock in biology and medicine.

UF shock (biological)

UF shock (medical)

UF traumatic shock

BT1 pathological changes

RT anaphylaxis

RT biological stress

RT electric shock

RT heart failure

**BIOLOGICAL STRESS**

UF stress (biological)

NT1 heat stress

RT anoxia

RT biological fatigue

RT biological radiation effects

RT biological shock

RT chronic exposure

RT drought resistance

RT exercise

RT fasting

RT heart failure

RT hypertension

RT hypotension

RT physiology

RT prenatal exposure

**biological testing**

USE bioassay

**BIOLOGICAL VARIABILITY**

UF variability (biological)

NT1 genetic variability

RT biological adaptation

**BIOLOGICAL WARFARE**

INIS: 2000-04-12; ETDE: 1986-02-03

BT1 warfare

RT biological warfare agents

**BIOLOGICAL WARFARE AGENTS**

INIS: 2000-04-12; ETDE: 1986-02-03

BT1 weapons

RT biological warfare

**BIOLOGICAL WASTES**

UF municipal wastes (biological)

UF radioactive biological wastes

\*BT1 biological materials

BT1 wastes

NT1 feces

NT1 manures

NT1 sewage sludge

NT1 sweat

NT1 urine

RT agricultural wastes

RT excretion

RT liquid wastes

RT organic wastes

RT pollutants

RT solid wastes

**BIOLOGY**

NT1 anatomy

NT1 botany

NT2 geobotany

NT1 cryobiology

NT1 cytology

NT1 genetics

NT1 radiobiology

NT1 zoology

RT animal tissues

RT animals

RT biochemistry

RT biogeochemistry

RT biological effects

RT biological evolution

RT biosphere

RT ecosystems

RT medicine

RT microorganisms

RT organs

RT plants

RT symbiosis

RT taxonomy

**BIOLUMINESCENCE**

INIS: 1999-09-07; ETDE: 1980-10-27

\*BT1 luminescence

RT biochemistry

RT photochemistry

**BIOMASS**

INIS: 1996-11-13; ETDE: 1975-07-29

Total weight of living organisms per unit area, or weight or volume of organisms per unit volume of habitat.

UF standing crop

SF renewable resources

\*BT1 renewable energy sources

RT autohydrolysis

RT bioconversion

RT biofuels

RT biological materials

RT biomass plantations

RT buffalo gourd

RT cattails

RT cellulose

RT deforestation

RT harvesting

RT hemicellulose

RT lignin

RT oleoresins

RT plankton

RT plants

RT solid fuels

RT stand density

RT sugar industry

RT wood

RT wood fuels

RT xylans

**BIOMASS CONVERSION PLANTS**

INIS: 1991-09-24; ETDE: 1979-10-23

Plants converting biomass to fuel.

BT1 industrial plants

RT chemical plants

RT ethanol plants

RT methanol plants

RT synthetic fuels

**biomass fuels**

2004-08-30

USE biofuels

**BIOMASS PLANTATIONS**

INIS: 1991-09-25; ETDE: 1976-09-14

Terrestrial or marine areas for the growing and harvesting of energy crops for the collection of energy for conversion into fuels.

RT agriculture

RT biomass

RT coppices

RT crops

RT farms

RT short rotation cultivation

RT silviculture

**BIOMEDICAL RADIOGRAPHY**

See also INDUSTRIAL RADIOGRAPHY.

UF angiography

UF radiography (biomedical)

UF x-ray radiography (biomedical)

BT1 diagnostic techniques

\*BT1 radiology

NT1 fluoroscopy

NT1 ionographic imaging

NT1 osteodensitometry

NT1 renography

RT cat scanning

RT compton scattering tomography

RT computerized tomography

RT contrast media

RT emission computed tomography

RT microradiography

RT photon computed tomography

RT photon transmission scanning

RT proton computed tomography

RT proton radiography

RT radiological personnel

RT sequential scanning

RT tomography

RT x radiation

RT x-ray equipment

RT x-ray radiography

**biomimetic processes**

INIS: 2000-04-12; ETDE: 1978-08-07

Methods or procedures based on or derived from a living organism by imitation or mimicry. A biomimetic process is predicated on a translation or abstraction of a process used by a living organism for a similar end. (Prior to February 1997 this was a valid ETDE descriptor.)

SEE photosynthesis

**BIOPHOTOLYSIS**

INIS: 1992-02-18; ETDE: 1977-12-22

The biologically mediated chemical breakdown of a compound using light as an energy source.

SF microbial processes

BT1 bioconversion

\*BT1 photolysis

RT hydrogen production

RT photosynthesis

**BIOPHYSICS**

2000-01-24

BT1 physics

RT biological effects

RT compartments

RT molecular biology

RT radiation doses

RT radiation effects

RT radiation protection

RT radiations

RT radiobiology

RT radionuclide kinetics

**BIOPSY**

BT1 diagnostic techniques

RT animal tissues

RT autopsy

**BIOREACTORS**

INIS: 1986-05-23; ETDE: 1983-03-23

(Prior to March 1983 this concept in ETDE was indexed to CHEMICAL REACTORS.)

UF biological reactors

RT biodegradation

RT chemical reactors

RT oxidation

RT waste water

RT water treatment

**BIOREMEDIATION**

2002-01-11

UF biological remediation

BT1 remedial action

RT microorganisms

**BIOSATELLITES**

BT1 satellites

**BIOSPHERE**

RT biology

RT carbon sources

RT ecosystems

RT environment

RT nature reserves

*RT* populations

**BIOSYNTHESIS**

*UF* translation (macromolecules)

*BT1* synthesis

**NT1** post-translation modification

*RT* anabolism

*RT* biochemistry

*RT* biological evolution

*RT* coenzymes

*RT* enzyme induction

*RT* enzymes

*RT* gene regulation

*RT* ligases

*RT* metabolism

*RT* molecular biology

*RT* phosphoenolpyruvate

*RT* photosynthesis

*RT* precursor

**BIOT-SAVART LAW**

*RT* magnetic fields

**BIOTECHNOLOGY**

*INIS: 1995-11-15; ETDE: 1986-11-20*

*The application of the principles of technology or engineering to the life sciences.*

**NT1** genetic engineering

**NT2** nucleic acid hybridization

**NT3** dna hybridization

**NT4** dna-cloning

**NT3** in-situ hybridization

**NT1** microarray technology

*RT* artificial organs

*RT* bioconversion

*RT* cell cultures

*RT* commercialization

*RT* hybridomas

*RT* immobilized cells

*RT* molecular biology

*RT* polymerase chain reaction

*RT* protein engineering

*RT* recombinant dna

**BIOTHERMGAS PROCESS**

*INIS: 2000-04-12; ETDE: 1981-12-14*

*UF* igt biothermal gasification

\**BT1* gasification

*RT* bioconversion

*RT* methane

**biothermohol process**

*INIS: 2000-04-12; ETDE: 1981-07-18*

*A method developed by IGT for converting biomass to liquid fuels by combining fermentation and thermochemical processes. (Prior to September 1994, this was a valid ETDE descriptor.)*

USE fermentation

USE thermochemical processes

**BIOTIN**

*UF* vitamin h

\**BT1* heterocyclic acids

\**BT1* imidazoles

\**BT1* organic sulfur compounds

\**BT1* vitamin b group

**BIOTITE**

*A widely distributed and important rock-forming mineral of the mica group.*

\**BT1* mica

*RT* granites

**BIPHENYL**

*UF* dowtherm

\**BT1* aromatics

\**BT1* hydrocarbons

*RT* benzidine

**biphenyldiamine**

USE benzidine

**biphosphates**

*INIS: 2000-04-12; ETDE: 1980-09-22*

*(From July 1977 till February 1997 acid phosphates was used for this concept in ETDE.)*

USE phosphates

**BIPYRIDINES**

*UF* methyl viologen

\**BT1* pyridines

**BIR REACTOR**

*INIS: 1986-12-09; ETDE: 1987-03-09*

\**BT1* enriched uranium reactors

\**BT1* fast reactors

\**BT1* pulsed reactors

\**BT1* research reactors

**BIRCHES**

*INIS: 1991-12-16; ETDE: 1979-03-27*

\**BT1* magnoliopsida

\**BT1* trees

**BIRDS**

*UF* bursa of fabricius

\**BT1* vertebrates

**NT1** fowl

**NT2** chickens

**NT2** ducks

**NT2** geese

**NT1** pigeons

*RT* eggs

*RT* feathers

*RT* newcastle disease

**BIREFRINGENCE**

*INIS: 1994-07-01; ETDE: 1979-07-18*

*(Until June 1994 this concept was indexed to REFRACTION.)*

*BT1* refraction

*RT* optical properties

**birmingham synchrotron**

*1996-07-16*

*(Until July 1996 this was a valid descriptor.)*

USE synchrotrons

**birth**

USE parturition

**bis(2-ethylhexyl)phosphoric acid**

USE hdehp

**bis(chloroethyl)amine**

USE nitrogen mustard

**bis(phenyloxazolyl)benzene**

*2000-04-12*

USE popop

**biscay bay (france, spain)**

*INIS: 1985-07-23; ETDE: 2002-06-13*

USE bay of biscay

**BISCAYNE BAY**

\**BT1* atlantic ocean

\**BT1* bays

*RT* florida

**BISCHOFF PROCESS**

*2000-04-12*

*An adjustable wet process that operates with alkaline additives to remove dust and sulfur dioxide from flue gas in a single operation giving savings in space and cost.*

\**BT1* lime-limestone wet scrubbing processes

*RT* waste processing

**bisethylenedithiolotetrathiafulvalene**

*INIS: 2000-04-12; ETDE: 1985-11-19*

USE bedt-tf

**BISMUTH**

\**BT1* metals

**BISMUTH 184**

*2007-01-17*

\**BT1* alpha decay radioisotopes

\**BT1* bismuth isotopes

\**BT1* heavy nuclei

\**BT1* isomeric transition isotopes

\**BT1* milliseconds living radioisotopes

\**BT1* odd-odd nuclei

**BISMUTH 185**

*2007-01-17*

\**BT1* alpha decay radioisotopes

\**BT1* bismuth isotopes

\**BT1* heavy nuclei

\**BT1* microseconds living radioisotopes

\**BT1* odd-even nuclei

\**BT1* proton decay radioisotopes

**BISMUTH 186**

*INIS: 1997-06-05; ETDE: 2000-08-02*

\**BT1* alpha decay radioisotopes

\**BT1* bismuth isotopes

\**BT1* heavy nuclei

\**BT1* milliseconds living radioisotopes

\**BT1* odd-odd nuclei

**BISMUTH 187**

*2007-01-17*

\**BT1* alpha decay radioisotopes

\**BT1* bismuth isotopes

\**BT1* heavy nuclei

\**BT1* isomeric transition isotopes

\**BT1* microseconds living radioisotopes

\**BT1* milliseconds living radioisotopes

\**BT1* odd-even nuclei

**BISMUTH 188**

*1980-11-07*

\**BT1* alpha decay radioisotopes

\**BT1* bismuth isotopes

\**BT1* heavy nuclei

\**BT1* odd-odd nuclei

**BISMUTH 189**

\**BT1* alpha decay radioisotopes

\**BT1* bismuth isotopes

\**BT1* heavy nuclei

\**BT1* odd-even nuclei

\**BT1* seconds living radioisotopes

**BISMUTH 190**

\**BT1* alpha decay radioisotopes

\**BT1* bismuth isotopes

\**BT1* electron capture radioisotopes

\**BT1* heavy nuclei

\**BT1* odd-odd nuclei

\**BT1* seconds living radioisotopes

**BISMUTH 191**

\**BT1* alpha decay radioisotopes

\**BT1* bismuth isotopes

\**BT1* electron capture radioisotopes

\**BT1* heavy nuclei

\**BT1* odd-even nuclei

\**BT1* seconds living radioisotopes

**BISMUTH 192**

\**BT1* alpha decay radioisotopes

\**BT1* bismuth isotopes

\**BT1* electron capture radioisotopes

\**BT1* heavy nuclei

\**BT1* odd-odd nuclei

\**BT1* seconds living radioisotopes

**BISMUTH 193**

\**BT1* alpha decay radioisotopes

\**BT1* bismuth isotopes

\**BT1* electron capture radioisotopes

\**BT1* heavy nuclei

- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**BISMUTH 194**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH 195**

- \*BT1 alpha decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 196**

- \*BT1 alpha decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH 197**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 198**

- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**BISMUTH 199**

- \*BT1 alpha decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 200**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH 201**

- \*BT1 alpha decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 202**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH 203**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 204**

- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH 205**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei

**BISMUTH 206**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei

**BISMUTH 207**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**BISMUTH 207 TARGET**

*INIS: 1978-01-16; ETDE: 1978-03-03*  
BT1 targets

**BISMUTH 208**

- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**BISMUTH 208 TARGET**

*INIS: 1979-09-18; ETDE: 1978-11-14*  
BT1 targets

**BISMUTH 209**

- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**BISMUTH 209 BEAMS**

*1983-03-15*  
\*BT1 ion beams

**BISMUTH 209 REACTIONS**

*1980-11-07*  
\*BT1 heavy ion reactions

**BISMUTH 209 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**BISMUTH 210**

- UF radium e*
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 days living radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**BISMUTH 210 TARGET**

*INIS: 1976-10-29; ETDE: 1976-08-24*  
BT1 targets

**BISMUTH 211**

- UF actinium c*
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 212**

- UF thorium c*
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 214**

- UF radium c*
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH 215**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 216**

*INIS: 1989-05-29; ETDE: 1989-06-21*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 bismuth isotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**BISMUTH 217**

*2007-01-17*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 bismuth isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**BISMUTH 218**

*2006-10-11*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 bismuth isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**BISMUTH ADDITIONS**

*Allloys containing not more than 1% Bi are listed here.*  
\*BT1 bismuth alloys

**BISMUTH ALLOYS**

*Allloys containing more than 1% Bi.*  
BT1 alloys  
NT1 bismuth additions



NT1 bismuth base alloys  
 NT2 alloy-bi50pb25cd12sn12  
 NT3 wood metal  
 NT2 cerrobend alloys  
 NT2 lichtenberg alloy  
 NT2 newton-metal  
 NT1 rose-metal

**BISMUTH BASE ALLOYS**

\*BT1 bismuth alloys  
 NT1 alloy-bi50pb25cd12sn12  
 NT2 wood metal  
 NT1 cerrobend alloys  
 NT1 lichtenberg alloy  
 NT1 newton-metal

**BISMUTH BORIDES**

1996-07-16

(From July 1996 to February 2008 BISMUTH COMPOUNDS + BORIDES was used for this concept.)

BT1 bismuth compounds  
 \*BT1 borides

**BISMUTH BROMIDES**

BT1 bismuth compounds  
 \*BT1 bromides

**BISMUTH CARBONATES**

1996-07-16

(From July 1996 to November 2007 BISMUTH COMPOUNDS + CARBONATES was used for this concept.)

BT1 bismuth compounds  
 \*BT1 carbonates

**BISMUTH CHLORIDES**

BT1 bismuth compounds  
 \*BT1 chlorides

**BISMUTH COMPLEXES**

BT1 complexes

**BISMUTH COMPOUNDS**

1996-07-16

NT1 bismuth borides  
 NT1 bismuth bromides  
 NT1 bismuth carbonates  
 NT1 bismuth chlorides  
 NT1 bismuth fluorides  
 NT1 bismuth germanates  
 NT1 bismuth hydrides  
 NT1 bismuth hydroxides  
 NT1 bismuth iodides  
 NT1 bismuth nitrates  
 NT1 bismuth oxides  
 NT1 bismuth phosphates  
 NT1 bismuth selenides  
 NT1 bismuth sulfates  
 NT1 bismuth sulfides  
 NT1 bismuth tellurides  
 NT1 bismuth tungstates  
 NT1 bismuth uranates

**BISMUTH FLUORIDES**

BT1 bismuth compounds  
 \*BT1 fluorides

**bismuth germanate detectors**

INIS: 1984-08-24; ETDE: 1984-07-10

USE bgo detectors

**BISMUTH GERMANATES**

INIS: 1983-12-01; ETDE: 1983-07-07

BT1 bismuth compounds  
 \*BT1 germanates  
 RT inorganic phosphors

**BISMUTH HYDRIDES**

1996-07-16

BT1 bismuth compounds  
 \*BT1 hydrides

**BISMUTH HYDROXIDES**

BT1 bismuth compounds  
 \*BT1 hydroxides

**BISMUTH IODIDES**

BT1 bismuth compounds  
 \*BT1 iodides

**BISMUTH IONS**

\*BT1 ions

**BISMUTH ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 bismuth 184  
 NT1 bismuth 185  
 NT1 bismuth 186  
 NT1 bismuth 187  
 NT1 bismuth 188  
 NT1 bismuth 189  
 NT1 bismuth 190  
 NT1 bismuth 191  
 NT1 bismuth 192  
 NT1 bismuth 193  
 NT1 bismuth 194  
 NT1 bismuth 195  
 NT1 bismuth 196  
 NT1 bismuth 197  
 NT1 bismuth 198  
 NT1 bismuth 199  
 NT1 bismuth 200  
 NT1 bismuth 201  
 NT1 bismuth 202  
 NT1 bismuth 203  
 NT1 bismuth 204  
 NT1 bismuth 205  
 NT1 bismuth 206  
 NT1 bismuth 207  
 NT1 bismuth 208  
 NT1 bismuth 209  
 NT1 bismuth 210  
 NT1 bismuth 211  
 NT1 bismuth 212  
 NT1 bismuth 213  
 NT1 bismuth 214  
 NT1 bismuth 215  
 NT1 bismuth 216  
 NT1 bismuth 217  
 NT1 bismuth 218

**BISMUTH NITRATES**

BT1 bismuth compounds  
 \*BT1 nitrates

**BISMUTH ORES**

BT1 ores

**BISMUTH OXIDES**

BT1 bismuth compounds  
 \*BT1 oxides

**BISMUTH PHOSPHATES**

BT1 bismuth compounds  
 \*BT1 phosphates

**BISMUTH SELENIDES**

1979-09-18

BT1 bismuth compounds  
 \*BT1 selenides

**BISMUTH SULFATES**

BT1 bismuth compounds  
 \*BT1 sulfates

**BISMUTH SULFIDES**

BT1 bismuth compounds  
 \*BT1 sulfides

**BISMUTH TELLURIDES**

BT1 bismuth compounds  
 \*BT1 tellurides

**BISMUTH TUNGSTATES**

INIS: 1981-11-27; ETDE: 1977-07-23

BT1 bismuth compounds  
 \*BT1 tungstates

**BISMUTH URANATES**

2000-04-12

(From January 1993 to February 2008 BISMUTH COMPOUNDS + URANATES was used for this concept.)

BT1 bismuth compounds  
 \*BT1 uranates

**bisulfates**

INIS: 2000-04-12; ETDE: 1980-09-22

USE acid sulfates

**bitter spar**

INIS: 2000-04-12; ETDE: 1976-03-31

USE dolomite

**BITUMENS**

1996-06-26

UF blown bitumens

UF carburan

UF oil sand oils

UF tar sand oil

\*BT1 tar

NT1 asphalts

NT1 coal tar

NT1 thucholite

RT asphaltite

RT bituminous materials

RT cold-water processes

RT oil sands

RT oil shales

RT waste processing

**BITUMINOUS COAL**

1991-09-25

SF soft coal

\*BT1 black coal

RT subbituminous coal

**BITUMINOUS MATERIALS**

1993-06-08

Materials containing much organic, or at least carbonaceous, matter, mostly in the form of tarry hydrocarbons which are usually described as bitumen.

\*BT1 carbonaceous materials

NT1 kerogen

NT1 oil sands

NT1 oil shales

NT2 black shales

RT bitumens

RT coal tar

RT shale tar

**BL LACERTAE OBJECTS**

INIS: 1981-10-15; ETDE: 1980-03-29

BT1 cosmic radio sources

RT quasars

RT seyfert galaxies

**BLACK AMERICANS**

INIS: 2000-04-12; ETDE: 1981-05-18

UF american blacks

\*BT1 minority groups

RT sociology

**black chrome**

INIS: 2000-04-12; ETDE: 1978-10-23

(Prior to February 1997 this was a valid ETDE descriptor.)

USE black coatings

**black clawson system**

INIS: 2000-04-12; ETDE: 1976-03-22  
 Waste processing system for materials and energy recovery by wet processing of municipal wastes.  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE waste processing

**BLACK COAL**

1991-09-25  
 \*BT1 coal  
 NT1 anthracite  
 NT1 bituminous coal

**BLACK COATINGS**

INIS: 2000-04-12; ETDE: 1978-02-14  
 UF black chrome  
 BT1 coatings  
 NT1 black nickel  
 RT solar absorbers  
 RT spectrally selective surfaces

**BLACK DWARF STARS**

\*BT1 dwarf stars

**BLACK FOX-1 REACTOR**

INIS: 1976-07-06; ETDE: 1976-03-11  
 Public Service Co. of Oklahoma, Inola, Oklahoma, USA. Canceled in 1982 before construction began.  
 \*BT1 bwr type reactors  
 RT ge standard reactor

**BLACK FOX-2 REACTOR**

INIS: 1976-07-06; ETDE: 1976-03-11  
 Public Service Co. of Oklahoma, Inola, Oklahoma, USA. Canceled in 1982 before construction began.  
 \*BT1 bwr type reactors  
 RT ge standard reactor

**BLACK HOLES**

RT accretion disks  
 RT gravitational collapse  
 RT kerr field  
 RT schwarzschild radius  
 RT stars  
 RT white holes

**BLACK LIQUIDS**

INIS: 2000-04-12; ETDE: 1978-08-07  
 \*BT1 liquids  
 RT heat transfer fluids  
 RT solar absorbers  
 RT solar collectors

**black liquors**

INIS: 2000-03-24; ETDE: 1993-03-04  
 USE spent liquors

**black lung disease**

INIS: 2000-04-12; ETDE: 1982-02-08  
 USE pneumoconioses

**BLACK NICKEL**

INIS: 2000-04-12; ETDE: 1978-12-11  
 \*BT1 black coatings  
 RT nickel  
 RT solar absorbers

**BLACK NUCLEUS MODEL**

\*BT1 nuclear models

**BLACK SANDS**

BT1 minerals  
 BT1 sand  
 RT magnetite  
 RT thorianite  
 RT thorite  
 RT uraninites

**BLACK SEA**

\*BT1 seas  
 RT bulgaria  
 RT danube river  
 RT dnier river  
 RT moldova  
 RT republic of georgia  
 RT romania  
 RT turkey  
 RT ukraine

**BLACK SHALES**

INIS: 1992-07-22; ETDE: 1976-12-15  
 UF antrim shales  
 UF devonian shales  
 \*BT1 oil shales  
 RT chattanooga formation  
 RT hytort process

**BLACKBODY RADIATION**

UF universal blackbody radiation  
 SF mean radiant temperature  
 \*BT1 electromagnetic radiation  
 RT emissivity  
 RT planck radiation formula  
 RT thermal radiation

**blackouts**

1982-12-03  
 USE outages

**BLADDER**

\*BT1 urinary tract  
 RT pelvis

**blades (compressor)**

INIS: 2000-04-12; ETDE: 1975-10-01  
 USE compressor blades

**blades (turbines)**

USE turbine blades

**BLAHUTOVICE-1 REACTOR**

INIS: 1988-04-15; ETDE: 1988-05-23  
 North Moravia, Czech Republic.  
 \*BT1 wwr type reactors

**BLAIR MODEL**

UF blair phase rule  
 RT elastic scattering

**blair phase rule**

USE blair model

**BLANKENBECLER-SUGAR EQUATIONS**

\*BT1 integral equations  
 RT bethe-salpeter equation  
 RT lippmann-schwinger equation  
 RT particle production  
 RT scattering

**blankets (breeding)**

USE breeding blankets

**blankets (gas)**

INIS: 1976-07-30; ETDE: 2002-06-13  
 USE gas blankets

**BLASCON DEVICES**

Spherical configuration using swirling lithium to create a vortex for injection of fusion fuel for laser ignition.  
 \*BT1 closed plasma devices

**BLAST EFFECTS**

RT explosions  
 RT landslides  
 RT seismic effects  
 RT shock waves

**BLAST FURNACES**

BT1 furnaces

**blasting**

INIS: 2000-04-12; ETDE: 1978-04-27  
 USE explosive fracturing

**blasts**

USE explosions

**BLATT-BIEDENHARN FORMALISM**

RT angular distribution

**BLAYAIS-1 REACTOR**

1995-10-02  
 \*BT1 pwr type reactors

**BLEACHING**

RT coloration

**blenders**

INIS: 2000-04-12; ETDE: 1976-01-23  
 USE mixers

**blending**

USE mixing

**BLEOMYCIN**

\*BT1 antibiotics  
 \*BT1 antimetabolic drugs  
 \*BT1 antineoplastic drugs  
 RT neoplasms  
 RT therapy

**BLIND RIVER**

\*BT1 rivers

**BLISTERS**

INIS: 1976-10-07; ETDE: 1976-11-01  
 Resulting near or on the surface of materials due to external physical or chemical effects.  
 RT bubbles  
 RT heating  
 RT radiation effects  
 RT surfaces  
 RT swelling

**BLIZZARD DEPOSIT**

INIS: 1981-02-27; ETDE: 1981-03-13  
 \*BT1 uranium deposits  
 RT british columbia  
 RT uranium ores

**BLOCH EQUATIONS**

BT1 equations  
 RT magnetic resonance

**BLOCH THEORY**

RT quantum mechanics

**BLOCH WALL**

1976-02-05  
 Transition layer with finite thickness of a few hundred lattice constants, between adjacent ferromagnetic domains.  
 BT1 domain structure

**blocking**

USE channeling

**blocking layer**

INIS: 2000-04-12; ETDE: 1980-03-04  
 USE depletion layer

**BLOCKING OSCILLATORS**

\*BT1 oscillators  
 RT pulse generators

**BLOOD**

\*BT1 body fluids  
 NT1 blood cells  
 NT2 blood platelets  
 NT2 erythrocytes  
 NT3 reticulocytes  
 NT2 leukocytes  
 NT3 basophils  
 NT3 eosinophils

**NT3** lymphocytes  
**NT3** monocytes  
**NT3** natural killer cells  
**NT3** neutrophils  
**NT1** blood plasma  
**NT2** blood serum  
*RT* blood circulation  
*RT* blood count  
*RT* blood formation  
*RT* blood groups  
*RT* bone marrow  
*RT* connective tissue  
*RT* extracorporeal irradiation  
*RT* hematologic agents  
*RT* hemic diseases  
*RT* hemocyanin  
*RT* hemorrhage  
*RT* hemosiderin  
*RT* homeostasis  
*RT* respiration  
*RT* septicemia  
*RT* transfusions  
*RT* uremia  
**BLOOD-BRAIN BARRIER**  
*RT* homeostasis  
*RT* physiology  
**BLOOD CELLS**  
**\*BT1** blood  
**NT1** blood platelets  
**NT1** erythrocytes  
**NT2** reticulocytes  
**NT1** leukocytes  
**NT2** basophils  
**NT2** eosinophils  
**NT2** lymphocytes  
**NT2** monocytes  
**NT2** natural killer cells  
**NT2** neutrophils  
*RT* biological indicators  
*RT* blood count  
*RT* bone marrow  
**BLOOD CHEMISTRY**  
*INIS: 1982-06-09; ETDE: 1980-06-23*  
**\*BT1** biochemistry  
*RT* blood coagulation factors  
*RT* blood plasma  
*RT* blood serum  
*RT* hemic diseases  
*RT* pbi  
*RT* qualitative chemical analysis  
*RT* quantitative chemical analysis  
**BLOOD CIRCULATION**  
*UF* cardiac output  
*UF* circulation (blood)  
*RT* blood  
*RT* blood flow  
*RT* blood pressure  
*RT* cardiography  
*RT* cardiovascular system  
*RT* emboli  
*RT* heart  
*RT* ischemia  
*RT* kidneys  
*RT* lungs  
*RT* mechanical heart  
*RT* myocardial infarction  
*RT* parabiosis  
*RT* physiology  
*RT* spleen  
*RT* vasoconstriction  
*RT* vasodilation  
**blood clotting**  
 USE blood coagulation  
**BLOOD COAGULATION**  
*UF* blood clotting

*UF* coagulation (blood)  
*RT* anticoagulants  
*RT* blood coagulation factors  
*RT* blood platelets  
*RT* blood serum  
*RT* coalescence  
*RT* fibrinolysin  
*RT* hematologic agents  
*RT* hematomas  
*RT* hemophilia  
*RT* hemorrhage  
*RT* thrombosis  
**BLOOD COAGULATION FACTORS**  
**\*BT1** proteins  
**NT1** fibrin  
**NT1** fibrinogen  
**NT1** kallikrein  
**NT1** plasminogen  
**NT1** prothrombin  
**NT1** thrombin  
**NT1** thromboplastin  
**NT1** urokinase  
*RT* blood chemistry  
*RT* blood coagulation  
*RT* blood platelets  
*RT* calcium  
*RT* fibrinolysin  
*RT* folic acid  
*RT* vitamin k  
**BLOOD COUNT**  
*RT* blood  
*RT* blood cells  
**blood diseases**  
 USE hemic diseases  
**BLOOD FLOW**  
*UF* flow (blood)  
*RT* blood circulation  
*RT* blood vessels  
*RT* emboli  
*RT* organs  
**BLOOD FORMATION**  
*UF* hematopoiesis  
*UF* hemopoiesis  
*SF* leukocytin  
**NT1** erythropoiesis  
**NT1** leukopoiesis  
**NT1** thrombopoiesis  
*RT* blood  
*RT* bone marrow  
*RT* bone marrow cells  
*RT* cell differentiation  
*RT* hematopoietic system  
*RT* spleen  
*RT* spleen colony formation  
*RT* stem cells  
**BLOOD GROUPS**  
*RT* blood  
*RT* erythrocytes  
*RT* hemagglutinins  
*RT* transfusions  
**BLOOD PLASMA**  
*UF* plasma (blood)  
**\*BT1** blood  
**NT1** blood serum  
*RT* biological indicators  
*RT* blood chemistry  
*RT* blood-plasma clearance  
*RT* blood substitutes  
*RT* chylomicrons  
*RT* complement  
*RT* proteins  
**BLOOD-PLASMA CLEARANCE**  
*UF* plasma clearance  
**BT1** clearance

*RT* blood plasma  
*RT* diagnostic techniques  
*RT* pbi  
*RT* radionuclide administration  
*RT* radionuclide kinetics  
*RT* thyroid  
*RT* time dependence  
**BLOOD PLATELETS**  
*UF* thrombocytes  
**\*BT1** blood cells  
*RT* blood coagulation  
*RT* blood coagulation factors  
*RT* thrombopoiesis  
**BLOOD PRESSURE**  
*RT* antihypertensive agents  
*RT* arteries  
*RT* blood circulation  
*RT* cardiography  
*RT* cardiovascular system  
*RT* hypertension  
*RT* hypotension  
*RT* renin  
**BLOOD SERUM**  
*UF* hsa  
*UF* human serum albumin  
*UF* serum (blood)  
**\*BT1** blood plasma  
*RT* blood chemistry  
*RT* blood coagulation  
*RT* immune serums  
**BLOOD SUBSTITUTES**  
*2000-05-24*  
*UF* plasma substitutes  
**\*BT1** hematologic agents  
**NT1** dextran  
**NT1** pectins  
**NT1** pvp  
*RT* blood plasma  
*RT* coagulants  
*RT* fibrinolytic agents  
*RT* hematinics  
*RT* post-irradiation therapy  
*RT* transfusions  
**BLOOD VESSELS**  
*UF* angiography  
**BT1** cardiovascular system  
**\*BT1** organs  
**NT1** arteries  
**NT2** aorta  
**NT2** carotid arteries  
**NT2** cerebral arteries  
**NT2** coronaries  
**NT1** capillaries  
**NT1** veins  
**NT2** portal system  
*RT* angiomas  
*RT* blood flow  
*RT* bypasses  
*RT* cardiovascular agents  
*RT* emboli  
*RT* hemorrhage  
*RT* ischemia  
*RT* telangiectasis  
*RT* thrombosis  
*RT* vascular diseases  
*RT* vasoconstriction  
*RT* vasoconstrictors  
*RT* vasodilation  
*RT* vasodilators  
**BLOWDOWN**  
*RT* loss of coolant  
**BLOWERS**  
*UF* fans  
*RT* automotive accessories

RT bellows  
 RT ceiling fans  
 RT compressors  
 RT pumps  
 RT reactor cooling systems  
 RT superchargers

**blown bitumens**

INIS: 2000-04-12; ETDE: 1976-02-19  
*A special type of bitumen produced by blowing air, under controlled conditions, through hot bitumen.*  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 USE bitumens

**BLOWOFF**

2000-04-12  
*Separation of a flame from a burner; material, either solid, liquid, or vapor, ejected from a sample upon absorption of high energy in a short period of time.*  
 RT burners  
 RT evaporation  
 RT flame propagation  
 RT flames  
 RT flashback

**BLOWOUT PREVENTERS**

INIS: 1993-01-29; ETDE: 1976-03-11  
*Stacks or assemblies of heavy-duty valves attached to the top of the casing to control well pressure.*  
 UF bop  
 \*BT1 drilling equipment  
 RT blowouts  
 RT natural gas wells  
 RT oil wells

**BLOWOUTS**

1991-09-25  
*The high-pressure, sometimes violent, uncontrolled ejection of water, gas, or oil from a borehole.*  
 BT1 accidents  
 RT blowout preventers  
 RT oil wells  
 RT wells

**blowup (particle beams)**

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE beam dynamics

**blue-green algae**

INIS: 1983-02-03; ETDE: 1983-03-07  
 USE cyanobacteria

**BLUE HILLS-1 REACTOR**

*Gulf States Utilities Co., Newton, Texas, USA. Canceled in 1978 before construction began.*  
 \*BT1 pwr type reactors

**BLUE HILLS-2 REACTOR**

*Gulf States Utilities Co., Newton, Texas, USA. Canceled in 1978 before construction began.*  
 \*BT1 pwr type reactors

**BLUE STELLAR OBJECTS**

\*BT1 quasars

**BLUEBERRIES**

INIS: 1993-07-13; ETDE: 1984-12-26  
 \*BT1 berries

**bmi reactor**

USE brr reactor

**BN-1600 REACTOR**

INIS: 1979-09-18; ETDE: 1979-10-23  
*Russian Federation.*  
 \*BT1 lmfr type reactors  
 \*BT1 power reactors

\*BT1 sodium cooled reactors

**BN-350 REACTOR**

*Mangyshlak, Shevchenko, Kazakhstan.*  
 UF fort shevchenko reactor  
 \*BT1 desalination reactors  
 \*BT1 lmfr type reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors  
 RT enriched uranium reactors  
 RT plutonium reactors

**bn-600 reactor**

USE beloyarsk-3 reactor

**BN-800 REACTOR**

INIS: 1989-02-24; ETDE: 1989-03-20  
 \*BT1 lmfr type reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors

**BNFL**

INIS: 1980-04-02; ETDE: 1980-05-06  
 UF british nuclear fuels limited  
 \*BT1 united kingdom organizations

**BNL**

UF brookhaven national laboratory  
 \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
 RT new york

**bnl reactor**

2000-04-12  
 (Prior to June 1994, this was a valid ETDE descriptor.)  
 SEE graphite moderated reactors  
 SEE research reactors  
 SEE zero power reactors

**bnps-1 reactor**

USE beloyarsk-1 reactor

**bnps-2 reactor**

USE beloyarsk-2 reactor

**bod**

INIS: 2000-04-12; ETDE: 1975-10-28  
 USE biochemical oxygen demand

**BODY**

See also PLANT TISSUES.  
 (Prior to March 1997 BODY AREAS was a valid ETDE descriptor.)

UF body areas

NT1 abdomen

NT1 animal tissues

NT2 bone marrow

NT2 connective tissue

NT3 adipose tissue

NT3 bone tissues

NT4 antlers

NT4 trabecular bone

NT3 cartilage

NT3 fascia

NT3 ligaments

NT3 tendons

NT2 endothelium

NT2 epithelium

NT3 epidermis

NT2 nerve tissue

NT2 perfused tissues

NT2 reticuloendothelial system

NT1 chest

NT2 mediastinum

NT1 head

NT2 face

NT3 eyes

NT4 conjunctiva

NT4 cornea

NT4 crystalline lens

NT4 lacrimal ducts

NT4 retina

NT4 uvea

NT3 nose

NT1 hematopoietic system

NT2 bone marrow

NT1 limbs

NT2 arms

NT3 hands

NT4 fingers

NT2 legs

NT3 feet

NT1 neck

NT1 organs

NT2 blood vessels

NT3 arteries

NT4 aorta

NT4 carotid arteries

NT4 cerebral arteries

NT4 coronaries

NT3 capillaries

NT3 veins

NT4 portal system

NT2 bone marrow

NT2 brain

NT3 cerebellum

NT3 cerebrum

NT4 cerebral cortex

NT3 hippocampus

NT3 hypothalamus

NT3 olfactory bulbs

NT3 thalamus

NT2 critical organs

NT2 diaphragm

NT2 esophagus

NT2 female genitals

NT3 ovaries

NT3 uterus

NT2 glands

NT3 endocrine glands

NT4 adrenal glands

NT4 pancreas

NT4 parathyroid glands

NT4 pituitary gland

NT4 thyroid

NT3 liver

NT3 mammary glands

NT3 pineal gland

NT3 prostate

NT3 salivary glands

NT2 heart

NT3 myocardium

NT3 pericardium

NT2 intestines

NT3 large intestine

NT4 rectum

NT3 small intestine

NT2 kidneys

NT3 glomeruli

NT3 tubules

NT2 lungs

NT2 male genitals

NT3 prostate

NT3 testes

NT2 perfused organs

NT2 pharynx

NT2 sense organs

NT3 auditory organs

NT3 eyes

NT4 conjunctiva

NT4 cornea

NT4 crystalline lens

NT4 lacrimal ducts

NT4 retina

NT4 uvea

NT3 taste buds

NT3 vestibular apparatus

NT2 skeleton

NT3 bone joints

**NT3** exoskeleton  
**NT3** femur  
**NT3** skull  
   **NT4** jaw  
**NT3** tibia  
**NT3** vertebrae  
**NT2** skin  
**NT3** epidermis  
**NT3** hair  
**NT3** hair follicles  
**NT3** nails  
**NT2** spleen  
**NT2** stomach  
**NT2** thymus  
**NT2** tongue  
**NT2** urinary tract  
**NT3** bladder  
**NT3** ureters  
**NT1** pelvis  
*RT* anatomy  
*RT* body composition  
*RT* retention  
*RT* sinuses  
*RT* whole-body counting  
*RT* whole-body irradiation

**body areas**

1999-04-06

(Until April 1999 this was a valid descriptor.)

USE body

**BODY BURDEN**

*RT* biological half-life  
*RT* contamination  
*RT* icrp critical group  
*RT* maximum permissible body burden  
*RT* pollution  
*RT* radioactivity  
*RT* radionuclide kinetics

**body centered cubic**

USE bcc lattices

**BODY COMPOSITION**

*RT* body  
*RT* quantitative chemical analysis

**BODY FLUIDS**

*UF* aqueous humor  
*SF* biological fluids  
 \*BT1 biological materials  
**NT1** amniotic fluid  
**NT1** bile  
**NT1** blood  
   **NT2** blood cells  
     **NT3** blood platelets  
     **NT3** erythrocytes  
     **NT4** reticulocytes  
   **NT3** leukocytes  
     **NT4** basophils  
     **NT4** eosinophils  
     **NT4** lymphocytes  
     **NT4** monocytes  
     **NT4** natural killer cells  
     **NT4** neutrophils  
   **NT2** blood plasma  
   **NT3** blood serum  
**NT1** cerebrospinal fluid  
**NT1** gastric acid  
**NT1** lymph  
**NT1** milk  
**NT1** saliva  
**NT1** sweat  
**NT1** urine  
*RT* edema  
*RT* excretion  
*RT* feces  
*RT* secretion

**BODY TEMPERATURE***UF* temperature (body)

**NT1** hyperthermia  
**NT1** hypothermia  
*RT* fever  
*RT* heat stress  
*RT* physiology  
*RT* thermoregulation

**body waves p (seismic)**

1980-05-14

USE seismic p waves

**body waves s (seismic)**

1980-05-14

USE seismic s waves

**BOGHEAD COAL***INIS*: 2000-04-12; *ETDE*: 1978-05-03

\*BT1 sapropelic coal

**NT1** torbanite**BOGOLYUBOV METHOD**

BT1 calculation methods

*RT* superconductivity**bogolyubov theory**

USE bbgky equation

**BOGOLYUBOV TRANSFORMATION***UF* bogolyubov-valatin relation

\*BT1 canonical transformations

*RT* hartree-fock-bogolyubov theory**bogolyubov-valatin relation**

USE bogolyubov transformation

**bogs***INIS*: 1976-10-29; *ETDE*: 1979-05-03

USE swamps

**BOHM CRITERION***UF* bohm-gross method*UF* bohm theory*RT* plasma**bohm-gross method**

USE bohm criterion

**bohm-pines theory**

USE pines-bohm theory

**bohm theory**

USE bohm criterion

**bohr approximation**

USE nilsson-mottelson model

**bohr-mottelson model**

USE nilsson-mottelson model

**bohr-sommerfeld quantum theory**

USE bohr theory

**BOHR THEORY***UF* bohr-sommerfeld quantum theory*RT* atomic models**BOHR-WHEELER THEORY***RT* fission*RT* nuclear models**BOHRUM**

2004-03-19

(Prior to March 2004 ELEMENT 107 was used for this element.)

*UF* eka-rhenium*UF* element 107*UF* unnilseptium

\*BT1 transactinide elements

**BOHRUM 260**

2007-01-19

\*BT1 alpha decay radioisotopes

\*BT1 bohrium isotopes

\*BT1 heavy nuclei

\*BT1 microseconds living radioisotopes

\*BT1 odd-odd nuclei

**BOHRUM 261**

2004-03-19

(Prior to March 2004 ELEMENT 107 261 was used for this concept.)

*UF* element 107 261

\*BT1 alpha decay radioisotopes

\*BT1 bohrium isotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 spontaneous fission radioisotopes

**BOHRUM 262**

2004-03-19

(Prior to March 2004 ELEMENT 107 262 was used for this concept.)

*UF* element 107 262

\*BT1 alpha decay radioisotopes

\*BT1 bohrium isotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 spontaneous fission radioisotopes

**BOHRUM 263**

2007-01-19

\*BT1 bohrium isotopes

\*BT1 heavy nuclei

\*BT1 microseconds living radioisotopes

\*BT1 odd-even nuclei

**BOHRUM 264**

2004-03-19

(Prior to March 2004 ELEMENT 107 264 was used for this concept.)

*UF* element 107 264

\*BT1 alpha decay radioisotopes

\*BT1 bohrium isotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**BOHRUM 265**

2006-06-12

\*BT1 alpha decay radioisotopes

\*BT1 bohrium isotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**BOHRUM 266**

2007-01-19

\*BT1 alpha decay radioisotopes

\*BT1 bohrium isotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**BOHRUM 267**

2007-01-19

\*BT1 alpha decay radioisotopes

\*BT1 bohrium isotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**BOHRUM 271**

2006-09-04

\*BT1 alpha decay radioisotopes

\*BT1 bohrium isotopes

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**BOHRUM 272**

2007-01-19

\*BT1 alpha decay radioisotopes

- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**BOHRIUM 273**

2007-01-19

- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**BOHRIUM 274**

2007-01-19

- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**BOHRIUM 275**

2007-01-19

- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BOHRIUM COMPOUNDS**

2004-03-19

(Prior to March 2004 ELEMENT 107 COMPOUNDS was used for this concept.)

UF *element 107 compounds*  
 \*BT1 transactinide compounds

**BOHRIUM ISOTOPES**

2004-03-19

(Prior to March 2004 ELEMENT 107 ISOTOPES was used for this concept.)

UF *element 107 isotopes*

- BT1 isotopes
- NT1 bohrium 260
- NT1 bohrium 261
- NT1 bohrium 262
- NT1 bohrium 263
- NT1 bohrium 264
- NT1 bohrium 265
- NT1 bohrium 266
- NT1 bohrium 267
- NT1 bohrium 271
- NT1 bohrium 272
- NT1 bohrium 273
- NT1 bohrium 274
- NT1 bohrium 275

**BOHUNICE A-1 REACTOR**

Trnava, Slovakia.

- UF *a-1 reactor (bohunice)*
- UF *heavy water gas cooled reactor of slovakia*
- UF *ks-150 reactor*
- \*BT1 carbon dioxide cooled reactors
- \*BT1 hwgcr type reactors
- \*BT1 natural uranium reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**BOHUNICE A-2 REACTOR**

Trnava, Slovakia.

- UF *a-2 reactor (bohunice)*
- \*BT1 hwgcr type reactors
- \*BT1 natural uranium reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**bohunice plant**

2004-12-15

- USE bohunice radioactive waste processing center

**BOHUNICE RADIOACTIVE WASTE PROCESSING CENTER**

2004-12-15

- UF *bohunice plant*
- UF *bsc rao*
- \*BT1 radioactive waste facilities
- RT intermediate-level radioactive wastes
- RT low-level radioactive wastes
- RT manivier canal
- RT slovakia

**BOHUNICE V-1 REACTOR**

Trnava, Slovakia.

- UF *v-1 reactor (bohunice)*
- \*BT1 wwer type reactors

**BOHUNICE V-2 REACTOR**

INIS: 1979-05-28; ETDE: 1979-09-06

Trnava, Slovakia.

- UF *v-2 reactor (bohunice)*
- \*BT1 wwer type reactors

**BOILER FUELS**

INIS: 1993-02-15; ETDE: 1981-01-30

(From May 1975 to January 1981 BOILER FUEL was a valid ETDE descriptor.)

- BT1 fuels
- RT boilers
- RT fossil-fuel power plants
- RT steam generators

**BOILERS**

- NT1 condensing boilers
- NT1 fluidized bed boilers
- NT1 refuse-fueled boilers
- NT1 vapor generators
- NT2 steam generators
- NT1 waste heat boilers
- RT boiler fuels
- RT boiling
- RT central receivers
- RT combustion control
- RT deaerators
- RT district heating
- RT feedwater
- RT heat production
- RT heat transfer
- RT reactor cooling systems
- RT stokers

**BOILING**

- BT1 phase transformations
- NT1 film boiling
- NT1 nucleate boiling
- NT2 departure nucleate boiling
- NT1 pool boiling
- NT1 subcooled boiling
- NT1 transition boiling
- RT boilers
- RT boiling detection
- RT bubble growth
- RT evaporation
- RT heat transfer
- RT heating
- RT steam generators
- RT two-phase flow

**BOILING DETECTION**

- BT1 detection
- RT boiling
- RT bubble growth
- RT bubbles
- RT foams
- RT reactor control systems
- RT reactor safety
- RT voids

**boiling heavy water cooled and moderated reactor**

1993-11-04

- USE bhwr type reactors

**boiling nuclear superheater reactor**

1993-11-04

- USE bonus reactor

**BOILING POINTS**

- \*BT1 transition temperature
- RT azeotrope

**boiling reactor experiment 1**

- USE borax-1 reactor

**boiling reactor experiment 2**

- USE borax-2 reactor

**boiling reactor experiment 3**

- USE borax-3 reactor

**boiling reactor experiment 4**

- USE borax-4 reactor

**boiling reactor experiment 5**

2000-04-12

- USE borax-5 reactor

**boiling water cooled and moderated reactor**

- USE bwr type reactors

**BOLIVIA**

- BT1 developing countries
- \*BT1 south america
- NT1 chacaltaya
- RT andes

**BOLL WEEVIL**

- UF *anthonomus grandis*
- \*BT1 beetles
- RT cotton plants

**BOLLWORM**

- UF *heliolithis*
- \*BT1 moths
- RT cotton plants

**BLOMETERS**

- BT1 measuring instruments
- RT temperature measurement
- RT thermometers

**BOLSA CHICA-1 REACTOR**

2000-04-12

USA.

- \*BT1 bwr type reactors

**BOLSA CHICA-2 REACTOR**

2000-04-12

USA.

- \*BT1 bwr type reactors

**BOLTED JOINTS**

- BT1 joints

**bolting**

- USE fastening

**bolts**

ETDE: 2002-06-13

- USE fasteners

**boltpwoodite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE silicate minerals
- USE uranium minerals

**boltzmann approximation**

- USE boltzmann statistics

**boltzmann collision integral**

- USE boltzmann equation

**BOLTZMANN EQUATION**

1996-07-18

- UF *boltzmann collision integral*
- UF *boltzmann transport equation*
- UF *born-green-yvon equation*
- UF *maxwell-boltzmann equation*
- \*BT1 integro-differential equations
- \*BT1 kinetic equations
- \*BT1 partial differential equations
- RT collision integrals
- RT collision probability method
- RT gases
- RT p1-approximation
- RT p2-approximation
- RT p3-approximation
- RT statistical mechanics
- RT transport theory

**boltzmann event**

INIS: 2000-04-12; ETDE: 1983-11-23

- USE atmospheric explosions
- USE plumbbob project

**boltzmann factor**

- USE boltzmann statistics

**BOLTZMANN STATISTICS**

- UF *boltzmann approximation*
- UF *boltzmann factor*
- UF *maxwell-boltzmann distribution*
- UF *maxwell-boltzmann statistics*
- UF *maxwell distribution*
- UF *maxwell statistics*
- UF *maxwell velocity distribution*
- RT distribution
- RT h theorem
- RT statistical mechanics

**boltzmann transport equation**

- USE boltzmann equation

**BOLTZMANN-VLASOV EQUATION**

1995-09-06

- UF *collisionless boltzmann equation*
- UF *liouville equation*
- UF *vlasov equation*
- UF *vlasov instability*
- UF *vlasov-maxwell equations*
- SF *maxwell-boltzmann system*
- \*BT1 partial differential equations
- NT1 plasma fluid equations
- RT plasma
- RT quasilinear problems
- RT transport theory

**bom-erda process**

INIS: 2000-04-12; ETDE: 1978-04-27

*This wet oxidative process employs air in place of oxygen and operates at higher temperature and pressure than the Ledgemont process. Ferric and ferrous sulfates and sulfuric acid are generated.*

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**bom refining districts**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE petroleum refineries

**BOMB REDUCTION**

- \*BT1 reduction

**BOMBS**

INIS: 2000-04-12; ETDE: 1984-09-05

*Explosive devices fused to detonate under specified conditions.*

- BT1 weapons

**bombyx**

- USE silkworm

**BOND ANGLE**

- UF *angle (bond)*
- RT binding energy
- RT chemical bonds

**BOND LENGTHS**

1999-07-20

- \*BT1 length
- RT binding energy
- RT chemical bonds
- RT molecular structure

**BONDING**

*For joining metals and other materials. For nuclear or chemical bonding, see also BINDING ENERGY.*

- UF *fusion (bonding, nonmetallic)*
- \*BT1 joining
- RT adhesion
- RT cementing
- RT coalescence
- RT grouting
- RT joints

**BONDUR**

2000-04-12

- \*BT1 aluminium base alloys
- \*BT1 copper alloys
- \*BT1 magnesium additions
- \*BT1 manganese additions
- \*BT1 silicon additions

**BONE CELLS**

- UF *osteocytes*
- \*BT1 connective tissue cells
- RT bone marrow
- RT bone marrow cells
- RT bone tissues

**bone diseases**

- USE skeletal diseases

**BONE FRACTURES**

- UF *fractures (bone)*
- \*BT1 injuries
- RT skeletal diseases

**BONE JOINTS**

- UF *joints (anatomy)*
- UF *synovia*
- \*BT1 skeleton
- RT cartilage
- RT rheumatic diseases
- RT skeletal diseases

**BONE MARROW**

- \*BT1 animal tissues
- \*BT1 hematopoietic system
- \*BT1 organs
- RT blood
- RT blood cells
- RT blood formation
- RT bone cells
- RT bone marrow cells
- RT bone tissues
- RT leukemia
- RT plasma cells
- RT polycythemia
- RT radiation syndrome
- RT reticuloendothelial system
- RT stem cells
- RT trabecular bone

**BONE MARROW CELLS**

- UF *erythroblasts*
- UF *megakaryocytes*
- \*BT1 connective tissue cells
- RT biological indicators
- RT blood formation

- RT bone cells
- RT bone marrow

**BONE SEEKERS**

- \*BT1 radioisotopes
- RT biological hot spots
- RT biological localization
- RT bone tissues
- RT calcium isotopes
- RT radionuclide kinetics
- RT radium isotopes
- RT strontium isotopes

**BONE TISSUES**

- UF *endosteum*
- UF *epiphysis (bones)*
- UF *periosteum*
- \*BT1 connective tissue
- NT1 antlers
- NT1 trabecular bone
- RT bone cells
- RT bone marrow
- RT bone seekers
- RT calcium
- RT dentin
- RT hyperparathyroidism
- RT osteodensitometry
- RT osteomyelitis
- RT osteoporosis
- RT osteoradionecrosis
- RT osteosarcomas
- RT parathormone
- RT rheumatic diseases
- RT rickets
- RT skeletal diseases
- RT skeleton
- RT teeth

**bones**

- USE skeleton

**BONN SYNCHROTRON**

- \*BT1 synchrotrons

**BONNER SPHERE DETECTORS**

- UF *multisphere neutron detectors*
- \*BT1 moderating detectors

**BONNER SPHERE SPECTROMETERS**

- \*BT1 neutron spectrometers

**BONNEVILLE POWER ADMINISTRATION**

INIS: 1991-08-09; ETDE: 1977-03-04

- UF *bpa*
- \*BT1 us doe
- RT electric power

**BONUS REACTOR**

- UF *boiling nuclear superheater reactor*
- UF *bwr superheater puerto rico reactor*
- UF *puerto rico bonus reactor*
- \*BT1 bwr type reactors

**bookkeeping**

- USE accounting

**BOOM CLAY**

2003-08-27

- UF *boom clay formation*
- \*BT1 clays
- RT geologic formations
- RT hades underground research facility
- RT marine disposal
- RT radioactive waste disposal
- RT underground disposal

**boom clay formation**

2003-08-27

*Silty-clay formation, studied as possible site for radioactive waste disposal.*

USE boom clay

USE geologic formations

**BOOM TOWNS**

INIS: 2000-04-12; ETDE: 1978-02-14

RT human populations

RT rural areas

RT social services

RT urban areas

**boosters (particle)**

USE particle boosters

**BOOTSTRAP CURRENT**

INIS: 1989-04-20; ETDE: 1989-05-11

\*BT1 electric currents

RT neoclassical transport theory

RT non-inductive current drive

RT plasma

**BOOTSTRAP MODEL**

\*BT1 composite models

RT coupling

**bop**

INIS: 2000-04-12; ETDE: 1976-05-17

USE blowout preventers

**BOPSSAR STANDARD PLANT**

INIS: 1977-10-17; ETDE: 1976-03-11

\*BT1 nuclear power plants

RT westinghouse standard reactor

**BOR-60 REACTOR***Dimitrovgrad, Russian Federation.*

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 Imfbr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**BORANES**

1996-08-05

UF diborane

BT1 boron compounds

\*BT1 hydrides

RT carboranes

**BORATES***Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor with the exception of the one NT below.*

BT1 boron compounds

BT1 oxygen compounds

NT1 borax

RT boric acid

RT boron oxides

**BORAX**

\*BT1 borates

\*BT1 sodium compounds

**BORAX-1 REACTOR***ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1954.*

UF boiling reactor experiment 1

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**BORAX-2 REACTOR***ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1955.*

UF boiling reactor experiment 2

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**BORAX-3 REACTOR***ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1956.*

UF boiling reactor experiment 3

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 power reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**BORAX-4 REACTOR***ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1958.*

UF boiling reactor experiment 4

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 power reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 thorium reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**BORAX-5 REACTOR**

2000-04-12

*ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1964.*

UF boiling reactor experiment 5

\*BT1 enriched uranium reactors

\*BT1 power reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**bordentown nj newbold island-1 reactor**

ETDE: 2002-06-16

USE newbold island-1 reactor

**bordentown nj newbold island-2 reactor**

ETDE: 2002-06-16

USE newbold island-2 reactor

**BORDONI PEAK**

RT dislocations

RT internal friction

**BOREAL REGIONS**

INIS: 1992-05-28; ETDE: 1987-02-13

*Those regions comprising the climate and biotic communities between the polar regions and the temperate zones.*

RT climates

RT cryosphere

RT polar regions

RT temperate zones

**BOREHOLE LINKING**

INIS: 2000-04-12; ETDE: 1976-11-29

*Creation of channels or fissures between boreholes in ore deposits to facilitate movement of gases or liquids.*

UF linking (borehole)

NT1 electrolinking

RT propping agents

**BOREHOLES**

UF drill holes

BT1 cavities

RT borescopes

RT earthmoving equipment

RT electrolinking

RT exploratory wells

RT formation damage

RT openings

RT rock drilling

RT stemming materials

RT subterrene penetrators

RT well logging

RT wells

**BORESCOPES**

INIS: 1975-11-11; ETDE: 1975-12-16

*A device, usually optical, for examining the inside surface of tubes, pipes, or bores.*

RT boreholes

RT pipes

RT pressure tubes

RT telescopes

RT tubes

RT well logging

**BORIC ACID**

BT1 boron compounds

\*BT1 inorganic acids

BT1 oxygen compounds

RT borates

**BORIDES**

1996-11-13

BT1 boron compounds

NT1 aluminium borides

NT1 barium borides

NT1 beryllium borides

NT1 bismuth borides

NT1 cadmium borides

NT1 calcium borides

NT1 cerium borides

NT1 chromium borides

NT1 cobalt borides

NT1 copper borides

NT1 dysprosium borides

NT1 erbium borides

NT1 europium borides

NT1 gadolinium borides

NT1 germanium borides

NT1 hafnium borides

NT1 holmium borides

NT1 indium borides

NT1 iridium borides

NT1 iron borides

NT1 lanthanum borides

NT1 lithium borides

NT1 lutetium borides

NT1 magnesium borides

NT1 manganese borides

NT1 molybdenum borides

NT1 neodymium borides

NT1 neptunium borides

NT1 nickel borides

NT1 niobium borides

NT1 osmium borides

NT1 palladium borides

NT1 plutonium borides

NT1 potassium borides

NT1 praseodymium borides

NT1 rhenium borides

NT1 rhodium borides

NT1 ruthenium borides

NT1 samarium borides

NT1 scandium borides

NT1 silicon borides

NT1 sodium borides

NT1 strontium borides

NT1 tantalum borides

NT1 terbium borides



NT1 thorium borides  
 NT1 thulium borides  
 NT1 tin borides  
 NT1 titanium borides  
 NT1 tungsten borides  
 NT1 uranium borides  
 NT1 vanadium borides  
 NT1 ytterbium borides  
 NT1 yttrium borides  
 NT1 zinc borides  
 NT1 zirconium borides  
 RT ceramics  
 RT intermetallic compounds

**BORN APPROXIMATION**

UF *born cross sections*  
 UF *plane-wave born approximation*  
 UF *pwba*  
 \*BT1 approximations  
 NT1 coupled channel born approximation  
 NT1 dwba  
 RT perturbation theory  
 RT quantum mechanics  
 RT scattering

**born-bogolyubov-green-kirkwood-yvon**

1993-11-04  
 USE bbgky equation

**born cross sections**

USE born approximation

**born-green-yvon equation**

ETDE: 2002-06-13  
 USE boltzmann equation

**BORN-INFELD THEORY**

RT electrodynamics  
 RT maxwell equations

**BORN-MAYER EQUATION**

BT1 equations

**BORN-OPPENHEIMER APPROXIMATION**

\*BT1 approximations  
 RT adiabatic approximation  
 RT scattering

**BORN-VON KARMAN THEORY**

RT specific heat

**BOROHYDRIDES**

*Specific compounds should be indexed by coordination of adescrptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 boron compounds  
 BT1 hydrogen compounds  
 NT1 uranium borohydrides

**BORON**

\*BT1 semimetals

**BORON 10**

\*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 stable isotopes  
 RT boron 10 beams  
 RT boron 10 reactions

**BORON 10 BEAMS**

\*BT1 ion beams  
 RT boron 10

**BORON 10 REACTIONS**

\*BT1 heavy ion reactions  
 RT boron 10

**BORON 10 TARGET**

ETDE: 1976-07-09  
 BT1 targets

**BORON 11**

\*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes  
 RT boron 11 beams  
 RT boron 11 reactions

**BORON 11 BEAMS**

\*BT1 ion beams  
 RT boron 11

**BORON 11 REACTIONS**

\*BT1 heavy ion reactions  
 RT boron 11

**BORON 11 TARGET**

ETDE: 1976-07-09  
 BT1 targets

**BORON 12**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**BORON 12 TARGET**

ETDE: 1976-07-09  
 BT1 targets

**BORON 13**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**BORON 13 TARGET**

INIS: 1975-12-19; ETDE: 1976-07-12  
 BT1 targets

**BORON 14**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**BORON 15**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**BORON 16**

1992-09-22  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei

**BORON 17**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**BORON 18**

INIS: 1985-07-22; ETDE: 1985-02-07  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei

**BORON 19**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 boron isotopes

\*BT1 light nuclei  
 \*BT1 odd-even nuclei

**BORON 6**

2007-10-01  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei

**BORON 7**

\*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

**BORON 8**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**BORON 8 REACTIONS**

1995-05-03  
 \*BT1 heavy ion reactions

**BORON 8 TARGET**

INIS: 1992-09-22; ETDE: 1981-11-10  
 BT1 targets

**BORON 9**

\*BT1 alpha decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

**BORON ADDITIONS**

1996-11-13  
*Alloys containing not more than 1% B are listed here.*

\*BT1 boron alloys  
 NT1 alloy-in-102  
 NT1 alloy-mo99b  
 NT1 alloy-ni43fe33cr16mo3  
 NT2 nimonic pe16  
 NT1 alloy-ni46cr23co19ti5al4  
 NT2 alloy-in-939  
 NT1 alloy-ni53co19cr15mo5al4ti3  
 NT2 udimet 700  
 NT1 alloy-ni55co17cr15mo5al4ti4  
 NT2 astroloy  
 NT1 alloy-ni55cr19co11mo10ti3  
 NT2 rene 41  
 NT1 alloy-ni58cr20co14mo4ti3  
 NT2 waspaloy  
 NT1 alloy-ni59cr20co17ti2  
 NT1 alloy-ni60co15cr10al6ti5mo3  
 NT2 alloy-in-100  
 NT1 alloy-ni61cr16co9al3ti3w3  
 NT2 alloy-in-738  
 NT1 alloy-ni62cr16mo15fe3  
 NT2 hastelloy s  
 NT1 alloy-ni74cr13al6mo4  
 NT2 inconel 713c  
 NT1 alloy-ni75cr12al6mo5  
 NT2 inconel 713lc  
 NT1 alloy-ni76cr20ti2  
 NT2 nimonic 80a  
 NT1 alloy-ni77cr20ti2  
 NT1 incoloy 901  
 NT1 rene 80  
 NT1 steel-cr15ni15motib  
 NT1 steel-ni26cr15ti2movalb  
 NT2 alloy-a-286

**BORON ALLOYS**

*Alloys containing more than 1% B.*  
 BT1 alloys  
 NT1 boron additions  
 NT2 alloy-in-102  
 NT2 alloy-mo99b  
 NT2 alloy-ni43fe33cr16mo3  
 NT3 nimonic pe16

NT2 alloy-ni46cr23co19ti5al4  
 NT3 alloy-in-939  
 NT2 alloy-ni53co19cr15mo5al4ti3  
 NT3 udimet 700  
 NT2 alloy-ni55co17cr15mo5al4ti4  
 NT3 astroloy  
 NT2 alloy-ni55cr19co11mo10ti3  
 NT3 rene 41  
 NT2 alloy-ni58cr20co14mo4ti3  
 NT3 waspaloy  
 NT2 alloy-ni59cr20co17ti2  
 NT2 alloy-ni60co15cr10al6ti5mo3  
 NT3 alloy-in-100  
 NT2 alloy-ni61cr16co9al3ti3w3  
 NT3 alloy-in-738  
 NT2 alloy-ni62cr16mo15fe3  
 NT3 hastelloy s  
 NT2 alloy-ni74cr13al6mo4  
 NT3 inconel 713c  
 NT2 alloy-ni75cr12al6mo5  
 NT3 inconel 713lc  
 NT2 alloy-ni76cr20ti2  
 NT3 nimonic 80a  
 NT2 alloy-ni77cr20ti2  
 NT2 incoloy 901  
 NT2 rene 80  
 NT2 steel-cr15ni15motib  
 NT2 steel-ni26cr15ti2movalb  
 NT3 alloy-a-286  
 NT1 colmonoy

**BORON ARSENIDES**

*INIS: 1989-04-20; ETDE: 1976-12-15*

\*BT1 arsenides  
 BT1 boron compounds

**BORON BROMIDES**

BT1 boron compounds  
 \*BT1 bromides

**BORON CARBIDES**

BT1 boron compounds  
 \*BT1 carbides

**BORON CHLORIDES**

BT1 boron compounds  
 \*BT1 chlorides

**BORON COATED ION CHAMBERS**

\*BT1 ionization chambers  
 \*BT1 neutron detectors

**BORON COMPLEXES**

BT1 complexes

**BORON COMPOUNDS**

*1996-08-05*

NT1 boranes  
 NT1 borates  
 NT2 borax  
 NT1 boric acid  
 NT1 borides  
 NT2 aluminium borides  
 NT2 barium borides  
 NT2 beryllium borides  
 NT2 bismuth borides  
 NT2 cadmium borides  
 NT2 calcium borides  
 NT2 cerium borides  
 NT2 chromium borides  
 NT2 cobalt borides  
 NT2 copper borides  
 NT2 dysprosium borides  
 NT2 erbium borides  
 NT2 europium borides  
 NT2 gadolinium borides  
 NT2 germanium borides  
 NT2 hafnium borides  
 NT2 holmium borides  
 NT2 indium borides  
 NT2 iridium borides

NT2 iron borides  
 NT2 lanthanum borides  
 NT2 lithium borides  
 NT2 lutetium borides  
 NT2 magnesium borides  
 NT2 manganese borides  
 NT2 molybdenum borides  
 NT2 neodymium borides  
 NT2 neptunium borides  
 NT2 nickel borides  
 NT2 niobium borides  
 NT2 osmium borides  
 NT2 palladium borides  
 NT2 plutonium borides  
 NT2 potassium borides  
 NT2 praseodymium borides  
 NT2 rhenium borides  
 NT2 rhodium borides  
 NT2 ruthenium borides  
 NT2 samarium borides  
 NT2 scandium borides  
 NT2 silicon borides  
 NT2 sodium borides  
 NT2 strontium borides  
 NT2 tantalum borides  
 NT2 terbium borides  
 NT2 thorium borides  
 NT2 thulium borides  
 NT2 tin borides  
 NT2 titanium borides  
 NT2 tungsten borides  
 NT2 uranium borides  
 NT2 vanadium borides  
 NT2 ytterbium borides  
 NT2 yttrium borides  
 NT2 zinc borides  
 NT2 zirconium borides  
 NT1 borohydrides  
 NT2 uranium borohydrides  
 NT1 boron arsenides  
 NT1 boron bromides  
 NT1 boron carbides  
 NT1 boron chlorides  
 NT1 boron fluorides  
 NT1 boron hydrides  
 NT1 boron hydroxides  
 NT1 boron iodides  
 NT1 boron nitrides  
 NT1 boron oxides  
 NT1 boron phosphates  
 NT1 boron phosphides  
 NT1 boron silicates  
 NT1 boron silicides  
 NT1 boron sulfides  
 NT1 boronic acids  
 NT1 fluoroborates  
 NT1 fluoroboric acid  
 RT organic boron compounds

**BORON FLUORIDES**

BT1 boron compounds  
 \*BT1 fluorides  
 RT fluoroborates

**BORON HYDRIDES**

*1996-08-05*

(Until July 1996 this concept was indexed to BORANES.)

BT1 boron compounds  
 \*BT1 hydrides

**BORON HYDROXIDES**

BT1 boron compounds  
 \*BT1 hydroxides

**boron injection**

*1995-05-02*

USE safety injection

**BORON IODIDES**

BT1 boron compounds

\*BT1 iodides

**BORON IONS**

\*BT1 ions

**BORON ISOTOPES**

*1999-07-16*

BT1 isotopes  
 NT1 boron 10  
 NT1 boron 11  
 NT1 boron 12  
 NT1 boron 13  
 NT1 boron 14  
 NT1 boron 15  
 NT1 boron 16  
 NT1 boron 17  
 NT1 boron 18  
 NT1 boron 19  
 NT1 boron 6  
 NT1 boron 7  
 NT1 boron 8  
 NT1 boron 9

**BORON LINED COUNTERS**

\*BT1 neutron detectors  
 \*BT1 proportional counters

**BORON NITRIDES**

BT1 boron compounds  
 \*BT1 nitrides

**BORON OXIDES**

BT1 boron compounds  
 \*BT1 oxides  
 RT borates

**BORON PHOSPHATES**

BT1 boron compounds  
 \*BT1 phosphates  
 RT borophosphate glass

**BORON PHOSPHIDES**

*INIS: 1978-07-03; ETDE: 1976-03-11*

BT1 boron compounds  
 \*BT1 phosphides

**BORON SILICATES**

BT1 boron compounds  
 \*BT1 silicates  
 RT borosilicate glass  
 RT silicate minerals  
 RT tourmaline

**BORON SILICIDES**

*INIS: 1985-09-06; ETDE: 1981-03-16*

BT1 boron compounds  
 \*BT1 silicides

**BORON SULFIDES**

BT1 boron compounds  
 \*BT1 sulfides

**BORONIC ACIDS**

BT1 boron compounds  
 \*BT1 organic acids

**BOROPHOSPHATE GLASS**

*INIS: 2000-04-04; ETDE: 1980-10-07*

*Low expansion heat resistant glass.*

UF borophosphates

BT1 glass

RT boron phosphates

RT borosilicate glass

RT phosphate glass

**borophosphates**

*INIS: 1981-02-27; ETDE: 1980-10-07*

USE borophosphate glass

**BOROSILICATE GLASS**

*INIS: 1980-11-07; ETDE: 1980-07-09*

*Low expansion heat resistant glass.*

UF borosilicates

BT1 glass

**NT1** pyrex  
*RT* boron silicates  
*RT* borophosphate glass

### borosilicates

*INIS: 1980-11-07; ETDE: 1980-07-23*  
 (Prior to July 1980 this was a valid term and older information is so indexed.)  
 USE borosilicate glass

### BORSSELE REACTOR

*Borssele, Zeeland, Netherlands.*  
*UF* kcb reactor  
*UF* kernenergiecentrale borssele reactor  
 \*BT1 pwr type reactors

### BOSCH PROCESS

*2000-04-12*  
*Catalytic process for hydrogen production from carbon monoxide and steam.*  
 BT1 chemical reactions  
*RT* carbon monoxide  
*RT* hydrogen production  
*RT* steam

### BOSE-EINSTEIN CONDENSATION

*RT* pion condensation  
*RT* superfluidity

### BOSE-EINSTEIN GAS

*RT* bose-einstein statistics  
*RT* bosons  
*RT* fermi gas

### BOSE-EINSTEIN STATISTICS

*RT* bose-einstein gas  
*RT* bosons  
*RT* cooper pairs  
*RT* fermi statistics  
*RT* parastatistics  
*RT* statistical mechanics

### BOSNIA AND HERZEGOVINA

*INIS: 1997-11-11; ETDE: 2000-10-12*  
*SF* yugoslavia  
 \*BT1 eastern europe

### BOSON-EXCHANGE MODELS

*UF* meson exchange  
 \*BT1 peripheral models  
 NT1 obe model  
 NT2 ope model  
 NT3 electric born model  
 NT1 sigma model  
*RT* deep inelastic scattering

### BOSON EXPANSION

*INIS: 1986-01-21; ETDE: 1984-11-08*  
*UF* bosonization  
*RT* boson-fermion symmetry  
*RT* collective model  
*RT* dyson representation  
*RT* generator-coordinate method  
*RT* hartree-fock-bogolyubov theory  
*RT* interacting boson model  
*RT* quantum mechanics  
*RT* quantum operators  
*RT* random phase approximation  
*RT* series expansion  
*RT* tamm-dancoff method

### BOSON-FERMION SYMMETRY

*1984-12-04*  
*Symmetry of a system containing a conserved number of bosons as well as fermions in which bosons and fermions share a common symmetry.*  
*UF* dynamical boson-fermion symmetry  
*UF* fermion-boson symmetry  
*UF* spinor symmetry  
 BT1 symmetry  
*RT* boson expansion

*RT* bosons  
*RT* dynamical groups  
*RT* fermions  
*RT* interacting boson model

### bosonization

*INIS: 2000-04-12; ETDE: 1984-11-08*  
 USE boson expansion

### BOSONS

NT1 gluons  
 NT1 goldstone bosons  
 NT2 axions  
 NT1 higgs bosons  
 NT1 intermediate bosons  
 NT2 intermediate vector bosons  
 NT3 w minus bosons  
 NT3 w plus bosons  
 NT3 z neutral bosons  
 NT1 mesons  
 NT2 antimesons  
 NT3 pseudoscalar antimesons  
 NT4 anti-b neutral mesons  
 NT4 anti-d neutral mesons  
 NT2 axial vector mesons  
 NT3 a1-1260 mesons  
 NT3 b1-1235 mesons  
 NT3 chi b1-9890 mesons  
 NT3 chi1-3510 mesons  
 NT3 d s-2536 mesons  
 NT3 d1-2420 mesons  
 NT3 f1-1285 mesons  
 NT3 f1-1420 mesons  
 NT3 f1-1510 mesons  
 NT3 h1-1170 mesons  
 NT3 k1-1270 mesons  
 NT3 k1-1400 mesons  
 NT2 baryonium  
 NT2 beauty mesons  
 NT3 b c mesons  
 NT3 b mesons  
 NT4 b minus mesons  
 NT4 b neutral mesons  
 NT5 anti-b neutral mesons  
 NT4 b plus mesons  
 NT3 b s mesons  
 NT3 b\*-5325 mesons  
 NT2 bottomonium  
 NT3 chi b0-10235 mesons  
 NT3 chi b0-9860 mesons  
 NT3 chi b1-10255 mesons  
 NT3 chi b1-9890 mesons  
 NT3 chi b2-10270 mesons  
 NT3 chi b2-9915 mesons  
 NT3 upsilon-10023 mesons  
 NT3 upsilon-10355 mesons  
 NT3 upsilon-10580 mesons  
 NT3 upsilon-10860 mesons  
 NT3 upsilon-11020 mesons  
 NT3 upsilon-9460 mesons  
 NT2 charmed mesons  
 NT3 b c mesons  
 NT3 d mesons  
 NT4 d minus mesons  
 NT4 d neutral mesons  
 NT5 anti-d neutral mesons  
 NT4 d plus mesons  
 NT3 d s-2536 mesons  
 NT3 d s mesons  
 NT3 d\*-2010 mesons  
 NT3 d\*2-2460 mesons  
 NT3 d\*s-2110 mesons  
 NT3 d1-2420 mesons  
 NT2 charmonium  
 NT3 chi0-3415 mesons  
 NT3 chi1-3510 mesons  
 NT3 chi2-3555 mesons  
 NT3 eta c-2980 mesons  
 NT3 eta c-3590 mesons  
 NT3 j psi-3097 mesons

NT3 psi-3685 mesons  
 NT3 psi-3770 mesons  
 NT3 psi-4040 mesons  
 NT3 psi-4160 mesons  
 NT3 psi-4415 mesons  
 NT2 phi mesons  
 NT3 phi-1020 mesons  
 NT3 phi-1680 mesons  
 NT3 phi3-1850 mesons  
 NT2 pseudoscalar mesons  
 NT3 b c mesons  
 NT3 b mesons  
 NT4 b minus mesons  
 NT4 b neutral mesons  
 NT5 anti-b neutral mesons  
 NT4 b plus mesons  
 NT3 b s mesons  
 NT3 d mesons  
 NT4 d minus mesons  
 NT4 d neutral mesons  
 NT5 anti-d neutral mesons  
 NT4 d plus mesons  
 NT3 d s mesons  
 NT3 eta-1295 mesons  
 NT3 eta-1440 mesons  
 NT3 eta c-2980 mesons  
 NT3 eta mesons  
 NT3 eta prime-958 mesons  
 NT3 k-1460 mesons  
 NT3 k-1830 mesons  
 NT3 kaons  
 NT4 antikaons  
 NT5 antikaons neutral  
 NT4 cosmic kaons  
 NT4 kaons minus  
 NT4 kaons neutral  
 NT5 antikaons neutral  
 NT5 kaons neutral long-lived  
 NT5 kaons neutral short-lived  
 NT4 kaons plus  
 NT3 pi-1300 mesons  
 NT3 pi-1770 mesons  
 NT3 pions  
 NT4 cosmic pions  
 NT4 pions minus  
 NT4 pions neutral  
 NT4 pions plus  
 NT3 pseudoscalar antimesons  
 NT4 anti-b neutral mesons  
 NT4 anti-d neutral mesons  
 NT2 scalar mesons  
 NT3 a0-980 mesons  
 NT3 chi0-3415 mesons  
 NT3 f0-1240 mesons  
 NT3 f0-1300 mesons  
 NT3 f0-1590 mesons  
 NT3 f0-1730 mesons  
 NT3 f0-980 mesons  
 NT3 k\*0-1430 mesons  
 NT2 strange mesons  
 NT3 b s mesons  
 NT3 d s-2536 mesons  
 NT3 d s mesons  
 NT3 d\*s-2110 mesons  
 NT3 k-1460 mesons  
 NT3 k-1830 mesons  
 NT3 k\*-1410 mesons  
 NT3 k\*-1680 mesons  
 NT3 k\*-892 mesons  
 NT3 k\*0-1430 mesons  
 NT3 k\*2-1430 mesons  
 NT3 k\*3-1780 mesons  
 NT3 k\*4-2045 mesons  
 NT3 k1-1270 mesons  
 NT3 k1-1400 mesons  
 NT3 k2-1770 mesons  
 NT3 k2-1820 mesons  
 NT3 kaons  
 NT4 antikaons

**NT5** antikaons neutral  
**NT4** cosmic kaons  
**NT4** kaons minus  
**NT4** kaons neutral  
**NT5** antikaons neutral  
**NT5** kaons neutral long-lived  
**NT5** kaons neutral short-lived  
**NT4** kaons plus  
**NT2** strangeonium  
**NT3** f2 prime-1525 mesons  
**NT2** tensor mesons  
**NT3** a2-1320 mesons  
**NT3** a4-2040 mesons  
**NT3** a6-2450 mesons  
**NT3** chi b2-9915 mesons  
**NT3** chi2-3555 mesons  
**NT3** d\*2-2460 mesons  
**NT3** f2-1270 mesons  
**NT3** f2-1430 mesons  
**NT3** f2-1720 mesons  
**NT3** f2-1810 mesons  
**NT3** f2-2010 mesons  
**NT3** f2-2300 mesons  
**NT3** f2-2340 mesons  
**NT3** f2 prime-1525 mesons  
**NT3** f4-2050 mesons  
**NT3** f4-2300 mesons  
**NT3** f6-2510 mesons  
**NT3** k\*2-1430 mesons  
**NT3** k\*3-1780 mesons  
**NT3** k\*4-2045 mesons  
**NT3** k2-1770 mesons  
**NT3** k2-1820 mesons  
**NT3** omega3-1670 mesons  
**NT3** phi3-1850 mesons  
**NT3** pi2-1670 mesons  
**NT3** pi2-2100 mesons  
**NT3** rho3-1690 mesons  
**NT3** rho3-2250 mesons  
**NT3** rho5-2350 mesons  
**NT2** toponium  
**NT2** vector mesons  
**NT3** b\*-5325 mesons  
**NT3** d\*-2010 mesons  
**NT3** j psi-3097 mesons  
**NT3** k\*-1410 mesons  
**NT3** k\*-1680 mesons  
**NT3** k\*-892 mesons  
**NT3** omega-1420 mesons  
**NT3** omega-1600 mesons  
**NT3** omega-782 mesons  
**NT3** phi-1020 mesons  
**NT3** phi-1680 mesons  
**NT3** psi-3685 mesons  
**NT3** psi-3770 mesons  
**NT3** psi-4040 mesons  
**NT3** psi-4160 mesons  
**NT3** psi-4415 mesons  
**NT3** rho-1450 mesons  
**NT3** rho-1700 mesons  
**NT3** rho-2150 mesons  
**NT3** rho-770 mesons  
**NT3** upsilon-10023 mesons  
**NT3** upsilon-10355 mesons  
**NT3** upsilon-10580 mesons  
**NT3** upsilon-10860 mesons  
**NT3** upsilon-11020 mesons  
**NT3** upsilon-9460 mesons  
**NT2** x-1700 mesons  
**NT2** x-1935 mesons  
**NT2** x-2220 mesons  
**NT2** x-3075 mesons  
**NT1** photons  
**NT2** cosmic photons  
**RT** bose-einstein gas  
**RT** bose-einstein statistics  
**RT** boson-fermion symmetry  
**RT** interacting boson model

**BOTANY**

**BT1** biology  
**NT1** geobotany  
**RT** plants

**BOTSWANA**

**BT1** africa  
**BT1** developing countries

**bottom baryons**

*INIS: 1987-12-21; ETDE: 1988-03-16*  
**USE** beauty baryons

**bottom-hole pressure**

*INIS: 2000-04-12; ETDE: 1978-08-10*  
**USE** well pressure

**bottom mesons**

*INIS: 1987-12-21; ETDE: 1984-12-26*  
**USE** beauty mesons

**bottom particles**

*INIS: 1985-01-17; ETDE: 1985-02-22*  
**USE** beauty particles

**bottom quark model**

*INIS: 2000-04-12; ETDE: 1979-11-07*  
**USE** flavor model

**BOTTOMING CYCLES**

*1996-08-05*  
 (Until July 1996 this concept was indexed to THERMODYNAMICCYCLES.)  
**BT1** thermodynamic cycles

**BOTTOMONIUM**

*INIS: 1995-10-04; ETDE: 1988-02-01*  
*A bound state of bottom and antibottom quarks.*

**SF** *upsilon resonances*  
**\*BT1** mesons  
**BT1** quarkonium  
**NT1** chi b0-10235 mesons  
**NT1** chi b0-9860 mesons  
**NT1** chi b1-10255 mesons  
**NT1** chi b1-9890 mesons  
**NT1** chi b2-10270 mesons  
**NT1** chi b2-9915 mesons  
**NT1** upsilon-10023 mesons  
**NT1** upsilon-10355 mesons  
**NT1** upsilon-10580 mesons  
**NT1** upsilon-10860 mesons  
**NT1** upsilon-11020 mesons  
**NT1** upsilon-9460 mesons  
**RT** b quarks  
**RT** beauty particles

**BOUND STATE**

**RT** charmonium  
**RT** coupling  
**RT** efimov effect  
**RT** energy levels  
**RT** glueballs  
**RT** impulse approximation  
**RT** kaonium  
**RT** pi-k atoms  
**RT** pi-mu atoms  
**RT** pionium  
**RT** quarkonium  
**RT** quasibound state  
**RT** toponium

**boundaries (grain)**

**USE** grain boundaries

**BOUNDARY CONDITIONS**

**UF** *asymptotic conditions*  
**NT1** marshak boundary conditions  
**NT1** moving-boundary conditions  
**RT** asymptotic solutions  
**RT** boundary-value problems  
**RT** cauchy problem

**RT** differential equations  
**RT** phi4-field theory

**BOUNDARY ELEMENT METHOD**

*INIS: 1992-01-22; ETDE: 1992-02-14*

**\*BT1** finite element method  
**RT** computer calculations  
**RT** finite difference method  
**RT** mathematics  
**RT** mesh generation

**BOUNDARY LAYERS**

**BT1** layers  
**NT1** plasma scrape-off layer  
**RT** fluid flow  
**RT** nusselt number  
**RT** plasma sheath  
**RT** plasma surface waves  
**RT** plasmopause  
**RT** prandtl number  
**RT** reynolds number  
**RT** rosseland approximation  
**RT** tropopause

**BOUNDARY-VALUE PROBLEMS**

*INIS: 1985-07-22; ETDE: 1976-05-13*

(Valid ETDE descriptor since May 1976. In INIS, prior to April 1982 this material was indexed to BOUNDARY CONDITIONS; from then till July 1985 the form BOUNDARY VALUE PROBLEMS was used.)

**NT1** dirichlet problem  
**RT** boundary conditions  
**RT** cauchy problem  
**RT** differential equations

**bovine**

**USE** cattle

**BOWING**

*2003-10-21*

*Geometric changes due to temperature and/or fluence gradients.*

**BT1** deformation  
**RT** temperature dependence  
**RT** thermoelasticity

**bowline operation**

*INIS: 2000-04-12; ETDE: 1979-11-23*

(Prior to February 1995, this was a valid ETDE descriptor.)

**USE** nuclear explosions  
**USE** underground explosions

**BOX MODELS**

*INIS: 1992-03-10; ETDE: 1987-07-31*

**BT1** mathematical models  
**RT** atmospheric circulation  
**RT** climate models  
**RT** oceanic circulation  
**RT** simulation

**boxcar event**

*1994-10-13*

*A test made during OPERATION CROSSTIE.*

(Prior to September 1994, this was a valid ETDE descriptor.)

**USE** nuclear explosions  
**USE** underground explosions

**bpa**

*INIS: 1991-08-09; ETDE: 1977-03-16*

**USE** bonneville power administration

**BPH**

**UF** *benzoylphenylhydroxylamine*  
**\*BT1** amines  
**\*BT1** hydroxy compounds  
**RT** amides

**BR-02 REACTOR**

*C.E.N.-S.C.K. Mol, Belgium.*

*UF belgian reactor 02*

*UF br-2 zero power mock-up reactor*

\*BT1 beryllium moderated reactors

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**BR-1 REACTOR**

*C.E.N.-S.C.K. Mol, Belgium.*

*UF belgian reactor 1*

\*BT1 air cooled reactors

\*BT1 graphite moderated reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

**br-1 reactor (russian federation)**

*1999-03-11*

USE sbr-1 reactor

**BR-2 REACTOR**

*UF belgian reactor 2*

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**br-2 reactor (russian federation)**

*1999-03-11*

USE sbr-2 reactor

**br-2 zero power mock-up reactor**

*1993-11-04*

USE br-02 reactor

**br-3/vulcain reactor**

USE br-3-vn reactor

**BR-3 REACTOR**

*UF belgian reactor 3*

\*BT1 pwr type reactors

**BR-3-VN REACTOR**

*UF belgian reactor-3/vulcain*

*UF br-3/vulcain reactor*

*UF vulcain/belgian-3 reactor*

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 mixed spectrum reactors

\*BT1 tank type reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**br-5 reactor (russian federation)**

*1999-03-11*

USE sbr-5 reactor

**BRACHYTHERAPY**

*INIS: 2003-10-06; ETDE: 2003-09-30*

*Radiotherapy in which the radioactive source is close to the body area being treated, either implanted, in physical contact, or located a short distance away.*

\*BT1 radiotherapy

*RT internal irradiation*

*RT radiation source implants*

*RT radiopharmaceuticals*

**brackish water ecosystems**

USE aquatic ecosystems

**BRADWELL REACTOR**

*Southminster, Essex, United Kingdom.*

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 thermal reactors

**BRADYKININ**

*1993-08-03*

*(Until August 1993, this concept was indexed by the broader term KININS.)*

\*BT1 kinins

**bragg angle**

USE bragg reflection

**BRAGG CURVE**

*UF bragg peak*

*UF bragg zone*

\*BT1 diagrams

*RT energy losses*

*RT ionization*

*RT let*

**bragg diffraction**

USE bragg reflection

**BRAGG GRAY CHAMBERS**

*UF air wall ionization chambers*

*UF cavity ionization chambers*

*UF tissue equivalent chambers*

\*BT1 dosimeters

\*BT1 ionization chambers

**bragg law**

USE bragg reflection

**bragg peak**

USE bragg curve

**BRAGG REFLECTION**

*UF bragg angle*

*UF bragg diffraction*

*UF bragg law*

*UF laue-bragg scattering*

BT1 reflection

*RT diffuse scattering*

*RT x-ray diffraction*

**bragg zone**

USE bragg curve

**BRAHMAPUTRA RIVER**

*INIS: 1993-10-01; ETDE: 1993-11-08*

\*BT1 rivers

*RT india*

**BRAIDWOOD-1 REACTOR**

*Exelon Generation Co., LLC, Braidwood, Illinois, USA.*

\*BT1 pwr type reactors

**BRAIDWOOD-2 REACTOR**

*Exelon Generation Co., LLC, Braidwood, Illinois, USA.*

\*BT1 pwr type reactors

**BRAIN**

\*BT1 central nervous system

\*BT1 organs

NT1 cerebellum

NT1 cerebrum

NT2 cerebral cortex

NT1 hippocampus

NT1 hypothalamus

NT1 olfactory bulbs

NT1 thalamus

*RT cerebral arteries*

*RT electroencephalography*

*RT encephalitis*

*RT endorphins*

*RT head*

*RT mental disorders*

*RT pineal gland*

*RT skull*

**BRAKES**

BT1 machine parts

NT1 water brakes

*RT regenerative braking*

**braking radiation**

USE bremsstrahlung

**BRANCHING RATIO**

BT1 dimensionless numbers

*RT bethe-heitler theory*

*RT decay*

*RT ft value*

*RT mixing ratio*

**BRANCHIOPODS**

*INIS: 1993-07-13; ETDE: 1981-06-15*

\*BT1 crustaceans

NT1 artemia

NT1 daphnia

**brane cosmology**

*2007-08-13*

USE m-theory

**brane models**

*2007-08-13*

USE m-theory

**brane theory**

*2007-08-13*

USE m-theory

**BRANES**

*2007-08-13*

*Spatially extended entities that appear in string theory and its relatives (M-theory and brane cosmology).*

*UF p-branes*

*UF s-branes*

NT1 d-branes

*RT cosmological models*

*RT particle models*

*RT string theory*

**BRANNERITE**

\*BT1 oxide minerals

\*BT1 thorium minerals

\*BT1 uranium minerals

*RT thorium oxides*

*RT titanium oxides*

*RT uranium oxides*

**brasil-argentina agencia contabil**

**controle mater nuclear**

*INIS: 1999-06-22; ETDE: 2002-06-13*

USE abacc

**brasimone pec reactor**

USE pec brasimone reactor

**BRASS**

\*BT1 copper base alloys

\*BT1 zinc alloys

NT1 brass-alpha

NT1 brass-beta

*RT heusler alloys*

*RT muntz metal*

*RT ounce metal*

**BRASS-ALPHA**

\*BT1 brass

**BRASS-BETA**

\*BT1 brass

**BRASSICA**

*UF cabbage*

*UF cauliflower*

*UF mustard*

UF rapeseed  
 UF sarson  
 UF turnips  
 \*BT1 magnoliopsida  
 \*BT1 vegetables  
 NT1 kale  
 RT radishes

### braun standard turbine island

INIS: 2000-04-12; ETDE: 1975-07-29  
 (Prior to February 1995, this was a valid ETDE descriptor.)

SEE bwr type reactors  
 SEE steam systems  
 SEE turbogenerators

### braunschweig experimental reactor

1993-11-04

USE fmrbr reactor

### braunschweig research reactor

USE fmrbr reactor

### bravo event

INIS: 1994-10-14; ETDE: 1984-05-23  
 A test made during OPERATION CASTLE.  
 (Prior to September 1994, this was a valid ETDE descriptor.)

USE surface explosions  
 USE thermonuclear explosions

### BRAWLEY GEOTHERMAL FIELD

INIS: 2000-04-12; ETDE: 1982-07-27

\*BT1 california  
 BT1 geothermal fields

### BRAYTON CYCLE

A thermodynamic cycle consisting of two constant-pressure processes interspersed with two constant-entropy cycles.

BT1 thermodynamic cycles  
 RT brayton cycle power systems  
 RT thermodynamics

### BRAYTON CYCLE POWER SYSTEMS

1999-01-29

(Until January 1999 this concept was indexed by BRAYTON CYCLE and POWER GENERATION.)

\*BT1 power systems  
 RT brayton cycle  
 RT gas turbines  
 RT solar heat engines

### BRAZED JOINTS

BT1 joints  
 RT brazing

### BRAZIL

UF goiania radiological emergency  
 BT1 developing countries  
 \*BT1 south america  
 RT amazon river  
 RT osamu utsumi mine

### brazil lab for synchrotron radiation

1991-02-11

USE brazilian lnls

### brazil triga reactor

INIS: 1984-06-21; ETDE: 2002-06-13

USE triga-brazil reactor

### BRAZILIAN CNEN

INIS: 1982-08-27; ETDE: 1982-09-10  
 Comissao Nacional de Energia Nuclear de Brasil.

UF cnen brazil  
 UF comissao nacional energia nuclear de brazil  
 \*BT1 brazilian organizations

### BRAZILIAN LNLS

1991-02-11

Brazilian Laboratory for Synchrotron Radiation.

UF brazil lab for synchrotron radiation  
 \*BT1 brazilian organizations

### brazilian lnls synchrotron

1991-02-11

USE lnls storage ring

### BRAZILIAN ORGANIZATIONS

INIS: 1977-03-29; ETDE: 1977-06-03

BT1 national organizations  
 NT1 brazilian cnen  
 NT1 brazilian lnls  
 NT1 nuclebras

### BRAZING

UF hard soldering  
 \*BT1 welding  
 RT brazed joints  
 RT brazing alloys  
 RT soldering

### BRAZING ALLOYS

BT1 alloys  
 RT brazing  
 RT filler metals

### BRAZOS RIVER

2000-04-12

\*BT1 rivers  
 RT texas

### BRAZZAVILLE

2000-04-12

\*BT1 congo peoples republic

### BREAD

BT1 food  
 RT flour

### BREAKDOWN

Limited to electric discharge phenomena. See also CLEAVAGE or DECOMPOSITION.

RT electric discharges  
 RT electric potential  
 RT electric sparks  
 RT electrical faults  
 RT flashover  
 RT lichtenberg figures  
 RT overvoltage  
 RT paschen law  
 RT spark gaps

### breakers (circuit)

USE circuit breakers

### BREAKEVEN

UF zero energy balance  
 BT1 energy balance  
 RT lawson criterion  
 RT plasma  
 RT thermonuclear reactors

### breakup fusion

INIS: 1985-01-18; ETDE: 2002-06-13

USE incomplete fusion reactions

### BREAKUP REACTIONS

BT1 nuclear reactions

### breakwaters

2000-04-12

USE dams

### breasts

USE mammary glands

### BREATH

RT air  
 RT exhalation

RT inhalation  
 RT respiration  
 RT respirators  
 RT respiratory system  
 RT respiratory system diseases

### breathing

USE respiration

### BREEDER REACTORS

BT1 reactors

NT1 fbr type reactors

NT2 aipfr reactor

NT2 gcftr type reactors

NT3 gcftr reactor

NT2 kalpakkam pfbr reactor

NT2 lmfbr type reactors

NT3 beloyarsk-3 reactor

NT3 beloyarsk-4 reactor

NT3 bn-1600 reactor

NT3 bn-350 reactor

NT3 bn-800 reactor

NT3 bor-60 reactor

NT3 cdftr reactor

NT3 clinch river breeder reactor

NT3 dftr reactor

NT3 ebr-1 reactor

NT3 ebr-2 reactor

NT3 enrico fermi-1 reactor

NT3 joyo reactor

NT3 kalpakkam lmfbr reactor

NT3 monju reactor

NT3 pfr reactor

NT3 phenix reactor

NT3 plbr reactor

NT3 rapsodie reactor

NT3 sbr-1 reactor

NT3 sbr-2 reactor

NT3 sbr-5 reactor

NT3 snr-2 reactor

NT3 snr reactor

NT3 super phenix reactor

NT2 pec brasimone reactor

NT2 zebra reactor

NT1 lwbr type reactors

RT accelerator breeders

RT breeding blankets

RT breeding pellets

RT breeding pellets

### BREEDING

Fuel breeding only. See also ANIMAL BREEDING and PLANT BREEDING.

BT1 nuclear fuel conversion

RT accelerator breeders

RT breeding blankets

RT breeding pellets

RT breeding ratio

RT transmutation

RT tritium recovery

### BREEDING BLANKETS

UF blankets (breeding)

BT1 reactor components

RT breeder reactors

RT breeding

RT breeding pellets

RT fertile materials

RT flibe

RT lotus facility

RT thermonuclear devices

RT tritium recovery

### BREEDING PELLETS

ETDE: 1976-08-24

BT1 pellets

RT breeder reactors

RT breeding

RT breeding blankets

RT pelletizing

RT thermonuclear reactors

**BREEDING RATIO**

- \*BT1 conversion ratio  
RT breeding

**BREIT-WIGNER FORMULA**

- UF single-level resonance formula  
RT cross sections  
RT multilevel analysis

**BREMSSTRAHLUNG**

- UF braking radiation  
\*BT1 electromagnetic radiation  
NT1 cyclotron radiation  
NT1 internal bremsstrahlung  
NT1 ondulator radiation  
NT1 synchrotron radiation  
RT bethe-heitler theory  
RT migdal theory  
RT peierls method  
RT penfold-leiss method  
RT radiation length  
RT tagged photon method

**bremsstrahlung (magnetic)**

- USE synchrotron radiation

**BRICKS**

- \*BT1 building materials  
RT adobe

**BRIDGES**

- 1991-09-25  
BT1 mechanical structures  
RT roads

**bridges (electric)**

- USE electric bridges

**BRIDGMAN METHOD**

- BT1 crystal growth methods  
RT crystal growth

**BRIGGS CRITERION**

- Allows distinguishing between absolute and convective plasma instabilities.*  
RT absolute instabilities  
RT convective instabilities

**brigham young university laboratory reactor**

- 2000-04-12  
USE byu 1-77 reactor

**BRIGHTNESS**

- \*BT1 optical properties  
RT beam emittance  
RT illuminance  
RT lighting requirements  
RT luminosity

**BRILLOUIN EFFECT**

- UF brillouin scattering  
\*BT1 coherent scattering

**brillouin scattering**

- USE brillouin effect

**BRILLOUIN THEOREM**

- 2000-04-12  
*Theorem states that if two determinants constructed from exact Hartree-Fock orbitals differ in one spin orbital, the matrix element connecting these two determinants will vanish.*  
RT energy levels  
RT matrix elements  
RT wave functions

**BRILLOUIN ZONES**

- BT1 zones  
RT band theory

**brine shrimp**

- INIS: 2000-04-12; ETDE: 1981-06-15  
USE artemia

**BRINELL HARDNESS**

- RT hardness

**BRINES**

- Water solutions saturated or strongly impregnated with common salt.*  
RT disposal wells  
RT geothermal fluids  
RT salinity  
RT salts  
RT seawater  
RT solutions

**BRINKMAN-KRAMERS APPROXIMATION**

- \*BT1 approximations  
RT perturbation theory  
RT scattering

**BRIQUETS**

- 2000-04-12  
\*BT1 solid fuels  
RT coal fines  
RT fossil fuels

**BRIQUETTING**

- INIS: 1993-03-24; ETDE: 1975-10-01  
\*BT1 molding  
RT agglomeration  
RT caking  
RT compacting  
RT formed coke processes  
RT pelletizing

**british anti-lewisite**

- INIS: 2005-01-31; ETDE: 2005-02-01  
USE dimercaprol

**BRITISH COAL**

- INIS: 2000-04-12; ETDE: 1989-05-17  
\*BT1 united kingdom organizations

**BRITISH COLUMBIA**

- \*BT1 canada  
RT blizzard deposit  
RT peace river

**british experimental pile operation**

- 1993-11-04  
USE bepo reactor

**british gas corporation process**

- INIS: 2000-04-12; ETDE: 1976-01-07  
USE crg processes

**british guiana**

- 1999-05-05  
*Now Guyana, an independent republic.*  
(Until May 1999 this was a valid descriptor.)  
USE guyana

**british nuclear fuels limited**

- INIS: 1980-04-02; ETDE: 1980-05-06  
USE bnfl

**BRITTLE-DUCTILE TRANSITIONS**

- 1998-10-23  
UF transitions (brittle-ductile)  
RT brittleness  
RT ductility  
RT embrittlement

**BRITTLENESS**

- BT1 mechanical properties  
RT brittle-ductile transitions  
RT crack propagation  
RT ductile-brittle transitions  
RT embrittlement  
RT helium embrittlement

- RT hydrogen embrittlement

**broadening (line)**

- INIS: 1978-09-28; ETDE: 2002-06-13  
USE line broadening

**BROADLANDS GEOTHERMAL FIELD**

- 2000-04-12  
BT1 geothermal fields  
RT geothermal hot-water systems  
RT new zealand

**BROEGGERITE**

- 2000-04-12  
\*BT1 uraninites

**BROENSTED ACIDS**

- INIS: 1996-08-05; ETDE: 1983-09-15  
*An acid as proton donor.*  
\*BT1 inorganic acids  
RT lewis acids

**BROKDORF REACTOR**

- INIS: 1976-09-06; ETDE: 1976-11-01  
*Wilstermarsch, Schleswig-Holstein, Federal Republic of Germany.*  
UF kernkraftwerk brokdorf  
\*BT1 pwr type reactors

**BROKEN-PAIR APPROXIMATION**

- 1978-08-14  
*A method, which conserves nucleon number, developed to treat pairing correlations in nuclei. It is an approximation to the seniority shell model and takes into account the quasi-particle residual interaction.*  
\*BT1 approximations  
RT nuclear theory  
RT shell models

**bromamines**

- INIS: 1984-04-04; ETDE: 1980-12-08  
(Prior to April 1994, this was a valid ETDE descriptor.)  
USE amines  
USE organic bromine compounds

**BROMATES**

- Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
\*BT1 bromine compounds  
BT1 oxygen compounds  
RT bromic acid

**BROMIC ACID**

- \*BT1 bromine compounds  
\*BT1 inorganic acids  
BT1 oxygen compounds  
RT bromates

**BROMIDES**

- 1997-06-17  
UF teab  
UF tetraethylammonium bromide  
\*BT1 bromine compounds  
\*BT1 halides  
NT1 actinium bromides  
NT1 aluminium bromides  
NT1 americium bromides  
NT1 antimony bromides  
NT1 arsenic bromides  
NT1 astatine bromides  
NT1 barium bromides  
NT1 berkelium bromides  
NT1 beryllium bromides  
NT1 bismuth bromides  
NT1 boron bromides  
NT1 cadmium bromides  
NT1 calcium bromides

NT1 californium bromides  
 NT1 cerium bromides  
 NT1 cesium bromides  
 NT1 chromium bromides  
 NT1 cobalt bromides  
 NT1 copper bromides  
 NT1 curium bromides  
 NT1 dysprosium bromides  
 NT1 einsteinium bromides  
 NT1 erbium bromides  
 NT1 europium bromides  
 NT1 fermium bromides  
 NT1 gadolinium bromides  
 NT1 gallium bromides  
 NT1 germanium bromides  
 NT1 gold bromides  
 NT1 hafnium bromides  
 NT1 holmium bromides  
 NT1 indium bromides  
 NT1 iodine bromides  
 NT1 iron bromides  
 NT1 krypton bromides  
 NT1 lanthanum bromides  
 NT1 lead bromides  
 NT1 lithium bromides  
 NT1 lutetium bromides  
 NT1 magnesium bromides  
 NT1 manganese bromides  
 NT1 mercury bromides  
 NT1 molybdenum bromides  
 NT1 neodymium bromides  
 NT1 neptunium bromides  
 NT1 nickel bromides  
 NT1 niobium bromides  
 NT1 nitrogen bromides  
 NT1 palladium bromides  
 NT1 phosphorus bromides  
 NT1 platinum bromides  
 NT1 plutonium bromides  
 NT1 polonium bromides  
 NT1 potassium bromides  
 NT1 praseodymium bromides  
 NT1 promethium bromides  
 NT1 protactinium bromides  
 NT1 radium bromides  
 NT1 rhenium bromides  
 NT1 rhodium bromides  
 NT1 rubidium bromides  
 NT1 ruthenium bromides  
 NT1 samarium bromides  
 NT1 scandium bromides  
 NT1 selenium bromides  
 NT1 silicon bromides  
 NT1 silver bromides  
 NT1 sodium bromides  
 NT1 strontium bromides  
 NT1 tantalum bromides  
 NT1 technetium bromides  
 NT1 tellurium bromides  
 NT1 terbium bromides  
 NT1 thallium bromides  
 NT1 thorium bromides  
 NT1 thulium bromides  
 NT1 tin bromides  
 NT1 titanium bromides  
 NT1 tungsten bromides  
 NT1 uranium bromides  
 NT1 vanadium bromides  
 NT1 xenon bromides  
 NT1 ytterbium bromides  
 NT1 yttrium bromides  
 NT1 zinc bromides  
 NT1 zirconium bromides  
 RT bromine additions  
 RT hydrobromic acid  
 RT oxybromides

### ***brominated alicyclic hydrocarbons***

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE halogenated alicyclic hydrocarbons  
 USE organic bromine compounds

### **BROMINATED ALIPHATIC HYDROCARBONS**

1999-04-13

(Prior to October 1991, this concept was indexed by ORGANIC BROMINE COMPOUNDS.)

\*BT1 halogenated aliphatic hydrocarbons  
 \*BT1 organic bromine compounds  
 NT1 bromoform  
 NT1 methyl bromide

### **BROMINATED AROMATIC HYDROCARBONS**

1991-10-01

(Prior to October 1991, this concept was indexed by ORGANIC BROMINE COMPOUNDS and AROMATICS.)

\*BT1 halogenated aromatic hydrocarbons  
 \*BT1 organic bromine compounds

### ***brominated hydrocarbons***

ETDE: 2002-06-13

USE organic bromine compounds

### **BROMINATION**

\*BT1 halogenation

### **BROMINE**

UF bromine bromides

\*BT1 halogens

### **BROMINE 67**

2007-10-22

\*BT1 bromine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

### **BROMINE 68**

2007-10-22

\*BT1 bromine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

### **BROMINE 69**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

### **BROMINE 70**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

### **BROMINE 71**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

### **BROMINE 71 TARGET**

INIS: 1980-05-14; ETDE: 1988-12-05

BT1 targets

### **BROMINE 72**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

### **BROMINE 73**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### **BROMINE 74**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### **BROMINE 75**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

### **BROMINE 76**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### **BROMINE 76 TARGET**

INIS: 1979-02-21; ETDE: 1979-03-28

BT1 targets

### **BROMINE 77**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### **BROMINE 78**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### **BROMINE 79**

\*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 stable isotopes  
 RT bromine 79 beams

### **BROMINE 79 BEAMS**

INIS: 1976-07-06; ETDE: 1976-08-24

\*BT1 ion beams  
 RT bromine 79

### **BROMINE 79 REACTIONS**

INIS: 1987-05-26; ETDE: 1988-09-22

\*BT1 heavy ion reactions

### **BROMINE 79 TARGET**

ETDE: 1976-07-09

BT1 targets

### **BROMINE 80**

\*BT1 beta-minus decay radioisotopes



\*BT1 beta-plus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**BROMINE 81**

\*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes

**BROMINE 81 REACTIONS**

1979-11-02

\*BT1 heavy ion reactions

**BROMINE 81 TARGET**

ETDE: 1976-07-09

BT1 targets

**BROMINE 82**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**BROMINE 83**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei

**BROMINE 84**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**BROMINE 85**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**BROMINE 86**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**BROMINE 87**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**BROMINE 88**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**BROMINE 89**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**BROMINE 90**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**BROMINE 91**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**BROMINE 92**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**BROMINE 93**

INIS: 1988-10-10; ETDE: 1988-11-01

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**BROMINE 94**

2007-10-22

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**BROMINE 95**

2007-10-22

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**BROMINE 96**

2007-10-22

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

**BROMINE 97**

2007-10-22

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**BROMINE ADDITIONS**

RT bromides  
 RT crystal doping  
 RT doped materials

**bromine bromides**

USE bromine

**BROMINE CHLORIDES**

UF chlorine bromides  
 \*BT1 bromine compounds  
 \*BT1 chlorides

**BROMINE COMPLEXES**

BT1 complexes

**BROMINE COMPOUNDS**

BT1 halogen compounds  
 NT1 bromates  
 NT1 bromic acid  
 NT1 bromides  
 NT2 actinium bromides  
 NT2 aluminium bromides

NT2 americium bromides  
 NT2 antimony bromides  
 NT2 arsenic bromides  
 NT2 astatine bromides  
 NT2 barium bromides  
 NT2 berkelium bromides  
 NT2 beryllium bromides  
 NT2 bismuth bromides  
 NT2 boron bromides  
 NT2 cadmium bromides  
 NT2 calcium bromides  
 NT2 californium bromides  
 NT2 cerium bromides  
 NT2 cesium bromides  
 NT2 chromium bromides  
 NT2 cobalt bromides  
 NT2 copper bromides  
 NT2 curium bromides  
 NT2 dysprosium bromides  
 NT2 einsteinium bromides  
 NT2 erbium bromides  
 NT2 europium bromides  
 NT2 fermium bromides  
 NT2 gadolinium bromides  
 NT2 gallium bromides  
 NT2 germanium bromides  
 NT2 gold bromides  
 NT2 hafnium bromides  
 NT2 holmium bromides  
 NT2 indium bromides  
 NT2 iodine bromides  
 NT2 iron bromides  
 NT2 krypton bromides  
 NT2 lanthanum bromides  
 NT2 lead bromides  
 NT2 lithium bromides  
 NT2 lutetium bromides  
 NT2 magnesium bromides  
 NT2 manganese bromides  
 NT2 mercury bromides  
 NT2 molybdenum bromides  
 NT2 neodymium bromides  
 NT2 neptunium bromides  
 NT2 nickel bromides  
 NT2 niobium bromides  
 NT2 nitrogen bromides  
 NT2 palladium bromides  
 NT2 phosphorus bromides  
 NT2 platinum bromides  
 NT2 plutonium bromides  
 NT2 polonium bromides  
 NT2 potassium bromides  
 NT2 praseodymium bromides  
 NT2 promethium bromides  
 NT2 protactinium bromides  
 NT2 radium bromides  
 NT2 rhenium bromides  
 NT2 rhodium bromides  
 NT2 rubidium bromides  
 NT2 ruthenium bromides  
 NT2 samarium bromides  
 NT2 scandium bromides  
 NT2 selenium bromides  
 NT2 silicon bromides  
 NT2 silver bromides  
 NT2 sodium bromides  
 NT2 strontium bromides  
 NT2 tantalum bromides  
 NT2 technetium bromides  
 NT2 tellurium bromides  
 NT2 terbium bromides  
 NT2 thallium bromides  
 NT2 thorium bromides  
 NT2 thulium bromides  
 NT2 tin bromides  
 NT2 titanium bromides  
 NT2 tungsten bromides  
 NT2 uranium bromides  
 NT2 vanadium bromides

NT2 xenon bromides  
 NT2 ytterbium bromides  
 NT2 yttrium bromides  
 NT2 zinc bromides  
 NT2 zirconium bromides  
 NT1 bromine chlorides  
 NT1 bromine fluorides  
 NT1 bromine oxides  
 NT1 hydrobromic acid  
 NT1 oxybromides  
 NT1 perbromates  
 RT organic bromine compounds

**BROMINE FLUORIDES**

UF fluorine bromides  
 \*BT1 bromine compounds  
 \*BT1 fluorides

**bromine iodides**

USE iodine bromides

**BROMINE IONS**

\*BT1 ions

**BROMINE ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 bromine 67  
 NT1 bromine 68  
 NT1 bromine 69  
 NT1 bromine 70  
 NT1 bromine 71  
 NT1 bromine 72  
 NT1 bromine 73  
 NT1 bromine 74  
 NT1 bromine 75  
 NT1 bromine 76  
 NT1 bromine 77  
 NT1 bromine 78  
 NT1 bromine 79  
 NT1 bromine 80  
 NT1 bromine 81  
 NT1 bromine 82  
 NT1 bromine 83  
 NT1 bromine 84  
 NT1 bromine 85  
 NT1 bromine 86  
 NT1 bromine 87  
 NT1 bromine 88  
 NT1 bromine 89  
 NT1 bromine 90  
 NT1 bromine 91  
 NT1 bromine 92  
 NT1 bromine 93  
 NT1 bromine 94  
 NT1 bromine 95  
 NT1 bromine 96  
 NT1 bromine 97

**BROMINE NUMBER**

INIS: 2000-04-12; ETDE: 1976-05-17

Number of centigrams of bromine which are absorbed by 1 gram of oil under certain conditions.

RT gasoline  
 RT oils

**BROMINE OXIDES**

\*BT1 bromine compounds  
 \*BT1 oxides  
 RT oxybromides

**bromodeoxyuridine**

USE budr

**BROMOFORM**

\*BT1 brominated aliphatic hydrocarbons  
 RT hydrocarbons  
 RT methane

**BROMOSULFOPHTHALEIN**

\*BT1 carboxylic acid esters

BT1 indicators  
 \*BT1 organic bromine compounds  
 \*BT1 polyphenols  
 BT1 reagents  
 \*BT1 sulfonic acids  
 RT phthalic acid  
 RT radiopharmaceuticals

**BROMOURACILS**

\*BT1 antimetabolites  
 \*BT1 organic bromine compounds  
 \*BT1 uracils  
 NT1 budr

**BRONCHI**

BT1 respiratory system  
 RT bronchitis  
 RT lungs  
 RT respiratory tract cells

**BRONCHITIS**

\*BT1 respiratory system diseases  
 RT bronchi

**bronchogenic carcinoma**

USE carcinomas  
 USE respiratory system diseases

**BRONCHOPNEUMONIA**

\*BT1 pneumonia

**bronco event**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions  
 USE plowshare project

**BRONZE**

\*BT1 copper base alloys  
 \*BT1 tin alloys  
 RT heusler alloys

**bronze (sodium tungsten)**

INIS: 2000-04-12; ETDE: 1979-08-09

USE sodium tungsten bronze

**BROOKHAVEN 200-MEV LINAC**

INIS: 1979-09-18; ETDE: 1979-12-10

\*BT1 linear accelerators  
 RT brookhaven ags

**BROOKHAVEN AGS**

\*BT1 synchrotrons  
 RT brookhaven 200-mev linac

**BROOKHAVEN CYCLOTRON**

\*BT1 isochronous cyclotrons

**brookhaven graphite research reactor**

1993-11-04

USE bgrr reactor

**brookhaven high flux beam reactor**

1993-11-04

USE hfbr reactor

**brookhaven intersecting storage accelerators**

1993-11-04

USE isabelle storage rings

**brookhaven medical research reactor**

1993-11-04

USE mrr reactor

**brookhaven national laboratory**

USE bnl

**BROOKHAVEN RHIC**

INIS: 1986-05-23; ETDE: 1986-01-14

Relativistic heavy ion collider facility located in former Isabelle Storage Ring tunnel.

UF relativistic heavy ion collider (bnl)

UF rhic (brookhaven)

\*BT1 heavy ion accelerators

BT1 storage rings

RT isabelle storage rings

**brooks**

INIS: 2000-04-12; ETDE: 1997-03-31

USE streams

**BROWN COAL**

1992-02-04

SF soft coal

\*BT1 coal

NT1 lignite

**brown coal liquefaction process**

INIS: 2000-04-12; ETDE: 1985-10-10

USE bcl process

**BROWNIAN MOVEMENT**

RT collisions

RT colloids

RT motion

**brownouts**

1995-03-27

USE outages

**BROWNS FERRY-1 REACTOR**

TVA, Decatur, Alabama, USA.

\*BT1 bwr type reactors

\*BT1 mixed spectrum reactors

**BROWNS FERRY-2 REACTOR**

TVA, Decatur, Alabama, USA.

\*BT1 bwr type reactors

\*BT1 mixed spectrum reactors

**BROWNS FERRY-3 REACTOR**

TVA, Decatur, Alabama, USA.

\*BT1 bwr type reactors

\*BT1 mixed spectrum reactors

**BRR REACTOR**

Battelle Columbus Laboratories, Columbus,

Ohio, USA. Shut down in 1975.

UF battelle research reactor

UF bmi reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

**BRUCE-1 REACTOR**

Tiverton, Ontario, Canada.

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

RT bruce site

**BRUCE-2 REACTOR**

Tiverton, Ontario, Canada.

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

RT bruce site

**BRUCE-3 REACTOR**

Tiverton, Ontario, Canada.

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

RT bruce site

**BRUCE-4 REACTOR**

*Tiverton, Ontario, Canada.*

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE-5 REACTOR**

*INIS: 1978-07-03; ETDE: 1978-08-07*

*Tiverton, Ontario, Canada.*

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE-6 REACTOR**

*INIS: 1978-07-03; ETDE: 1978-08-07*

*Tiverton, Ontario, Canada.*

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE-7 REACTOR**

*INIS: 1978-07-03; ETDE: 1978-08-07*

*Tiverton, Ontario, Canada.*

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE-8 REACTOR**

*INIS: 1978-07-03; ETDE: 1978-08-07*

*Tiverton, Ontario, Canada.*

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE SITE**

*INIS: 1993-01-14; ETDE: 1993-05-06*

*Tiverton, Ontario, Canada.*

- BT1 reactor sites
- RT bruce-1 reactor
- RT bruce-2 reactor
- RT bruce-3 reactor
- RT bruce-4 reactor
- RT bruce-5 reactor
- RT bruce-6 reactor
- RT bruce-7 reactor
- RT bruce-8 reactor

**BRUCELLA**

- \*BT1 bacteria

**brueckner approximation**

USE goldstone diagrams

**brueckner-gammel potential**

USE brueckner method

**brueckner-gammel-weitzner theory**

USE brueckner method

**brueckner-goldstone theory**

USE goldstone diagrams

**BRUECKNER METHOD**

- UF *brueckner-gammel potential*
- UF *brueckner-gammel-weitzner theory*
- BT1 calculation methods
- RT brueckner model
- RT nuclear models
- RT nucleons

**BRUECKNER MODEL**

- UF *brueckner potential*
- UF *brueckner-watson theory*
- \*BT1 nuclear models
- RT brueckner method

**brueckner potential**

USE brueckner model

**brueckner-sawada theory**

USE goldstone diagrams

**brueckner-watson theory**

USE brueckner model

**BRUNEI**

*INIS: 1993-01-26; ETDE: 1976-07-07*  
*Sultanate and British protectorate, NW Borneo.*

BT1 asia

**bruno leuschner-1 reactor**

USE greifswald-1 reactor

**bruno leuschner-2 reactor**

USE greifswald-2 reactor

**bruno leuschner-3 reactor**

*INIS: 1978-07-31; ETDE: 1978-09-11*

USE greifswald-3 reactor

**bruno leuschner-4 reactor**

*INIS: 1978-07-31; ETDE: 1978-09-11*

USE greifswald-4 reactor

**BRUNSBUETTEL REACTOR**

SF *kbb reactor*

\*BT1 bwr type reactors

**BRUNSWICK-1 REACTOR**

*Carolina Power and Light Co., Southport, North Carolina, USA.*

\*BT1 bwr type reactors

**BRUNSWICK-2 REACTOR**

*Carolina Power and Light Co., Southport, North Carolina, USA.*

\*BT1 bwr type reactors

**brussels conv liability for maritime carriage nuc mater 1971**

*ETDE: 2003-01-03*

USE bcoclmnm

**brussels conv liability for operation of nuclear ships**

*ETDE: 2003-01-03*

USE bcolons

**brussels conv-suppl to paris conv on third party liability**

*ETDE: 2003-01-03*

USE bcstpc

**BRYOPHYTA**

*INIS: 1991-12-13; ETDE: 1989-06-01*

BT1 plants

NT1 mosses

**BRYOZOA**

*INIS: 2000-04-12; ETDE: 1985-02-22*

BT1 aquatic organisms

\*BT1 invertebrates

**bsc rao**

*2004-12-15*

*Bohunicke Spracovatelske Centrum RadioAktivnych Odpadov.*

USE bohunice radioactive waste processing center

**bsf reactor**

USE bsr-1 reactor

**bsg devices**

*1996-07-16*

(Until July 1996 this was a valid descriptor.)

USE linear theta pinch devices

USE magnetic mirrors

**BSR-1 REACTOR**

*ORNL, Oak Ridge, Tennessee, USA. Shut down in 1991.*

UF *bsf reactor*

UF *bulk shielding reactor-1*

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**BSR-2 REACTOR**

*ORNL, Oak Ridge, Tennessee, USA. Shut down in 1991.*

UF *bulk shielding reactor-2*

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**btu content**

*INIS: 2000-04-12; ETDE: 1984-10-24*

USE calorific value

**btu meters**

*INIS: 2000-04-12; ETDE: 1981-10-24*

USE heat meters

**BUBBLE CHAMBERS**

\*BT1 gas track detectors

NT1 cryogenic bubble chambers

NT1 heavy liquid bubble chambers

NT1 ultrasonic bubble chambers

RT digitizers

**BUBBLE DOSEMETERS**

*INIS: 2003-12-17; ETDE: 2004-01-07*

\*BT1 dosimeters

RT neutron dosimetry

RT personnel dosimetry

**BUBBLE GROWTH**

UF *growth (bubble)*

RT boiling

RT boiling detection

**BUBBLES**

RT aeration

RT blisters

RT boiling detection

RT flow visualization

RT foams

RT voids

**bubiag-didier process**

*2000-04-12*

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**bucharest wwr-s reactor**

*INIS: 1984-06-21; ETDE: 2002-06-13*

USE wwr-s-bucharest reactor

**BUCKET WHEEL EXCAVATORS**

*INIS: 2000-04-12; ETDE: 1978-04-28*

\*BT1 earthmoving equipment

\*BT1 mining equipment

**BUCKINGHAM POTENTIAL**

BT1 potentials

RT interatomic forces

**BUCKLING**

*For neutron density distribution in reactors; for structural buckling see DEFORMATION or FAILURES.*

NT1 geometric buckling

NT1 material buckling

RT criticality

**buckling (structural)**

USE deformation

**BUCKWHEAT**

\*BT1 liliopsida  
RT cereals

**BUDAPEST TRAINING REACTOR**

1980-09-12

*Technical Univ., Budapest, Hungary.*

\*BT1 thermal reactors  
\*BT1 training reactors  
\*BT1 wwr type reactors

**budapest wwr-s reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE wwr-s-budapest reactor

**BUDGETS**

RT allocations  
RT cost  
RT economics  
RT expenditures  
RT financial data  
RT financing

**budker accelerators**

USE plasma betatrons

**BUDR**

UF bromodeoxyuridine  
\*BT1 bromouracils  
\*BT1 nucleosides  
RT deoxyuridine

**BUDS**

RT plants

**BUFFALO**

\*BT1 ruminants  
RT domestic animals

**BUFFALO GOURD**

INIS: 1991-12-16; ETDE: 1980-11-25

UF *cucurbita foetidissima*  
\*BT1 magnoliopsida  
RT arid lands  
RT biomass  
RT essential oils  
RT seeds

**buffalo project**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE nuclear explosions

**buffalo pulstar reactor**

USE pulstar-buffalo reactor

**BUFFERS**

RT acid neutralizing capacity  
RT gases  
RT ph value  
RT solutions

**BUFOTENINE**

1996-06-26

\*BT1 hallucinogens  
\*BT1 serotonin

**BUGEY-1 REACTOR**

*St-Vulbas, Ain, France.*

UF *edf-5 reactor*  
\*BT1 carbon dioxide cooled reactors  
\*BT1 gcr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**BUGEY-2 REACTOR**

*St-Vulbas, Ain, France.*

\*BT1 pwr type reactors

**BUGEY-3 REACTOR**

1983-09-05

*St-Vulbas, Ain, France.*

\*BT1 pwr type reactors

**BUGEY-4 REACTOR**

INIS: 1980-07-24; ETDE: 1980-08-12

*St-Vulbas, Ain, France.*

\*BT1 pwr type reactors

**BUGEY-5 REACTOR**

INIS: 1988-05-13; ETDE: 1988-06-24

*St-Vulbas, Ain, France.*

\*BT1 pwr type reactors

**BUILDERS**

INIS: 1993-04-28; ETDE: 1981-06-13

UF *building contractors*  
BT1 personnel  
RT architects  
RT construction industry  
RT craftsmen

**building (constructing)**

USE construction

**building (manufacturing)**

USE fabrication

**BUILDING CODES**

INIS: 1992-06-30; ETDE: 1978-04-05

\*BT1 regulations  
RT construction  
RT vernacular architecture

**building contractors**

INIS: 1993-04-28; ETDE: 1981-06-13

USE builders

**building envelope**

2004-05-28

USE roofs  
USE walls

**building foundations**

INIS: 1975-12-17; ETDE: 2002-06-13

USE foundations

**building-integrated energy-producing components**

2004-02-11

*Use the descriptor below + term(s) for the components, e.g. SOLAR CELL ARRAYS, TROMBE WALLS, ROOF PONDS.*

USE solar architecture

**BUILDING MATERIALS**

UF *materials (building)*  
UF *structural materials*  
BT1 materials  
NT1 adobe  
NT1 bricks  
NT1 cements  
NT2 gypsum cements  
NT2 portland cement  
NT1 concrete blocks  
NT1 concretes  
NT2 prestressed concrete  
NT2 reinforced concrete  
RT buildings  
RT composite materials  
RT glazing materials  
RT mortars  
RT pavements  
RT reinforced materials  
RT sand  
RT shielding materials  
RT structural beams  
RT thermal bridges  
RT u values

**BUILDINGS**

1997-06-17

UF *laundries*  
UF *structures (buildings)*  
NT1 animal shelters  
NT1 commercial buildings  
NT2 hotels  
NT2 shopping centers  
NT1 containment buildings  
NT1 double envelope buildings  
NT1 earth-covered buildings  
NT1 government buildings  
NT1 greenhouses  
NT2 attached greenhouses  
NT1 high-rise buildings  
NT1 hospitals  
NT1 industrial buildings  
NT1 laboratory buildings  
NT1 low-energy buildings  
NT1 office buildings  
NT1 prefabricated buildings  
NT1 public buildings  
NT1 residential buildings  
NT2 apartment buildings  
NT2 houses  
NT2 mobile homes  
NT1 school buildings  
RT air curtains  
RT air infiltration  
RT airtightness  
RT architects  
RT architecture  
RT atria  
RT attics  
RT basements  
RT building materials  
RT ceilings  
RT construction  
RT construction industry  
RT curtains  
RT distributed structures  
RT domed structures  
RT doors  
RT drum walls  
RT elevators  
RT energy management systems  
RT floors  
RT foundations  
RT high rooms  
RT laboratories  
RT libraries  
RT load collector ratio  
RT mechanical structures  
RT medical establishments  
RT occupants  
RT retrofitting  
RT roofs  
RT shelters  
RT shutters  
RT skylights  
RT soil-structure interactions  
RT solar architecture  
RT sport facilities  
RT stacks  
RT sun shades  
RT trombe walls  
RT walls  
RT weatherization  
RT window frames  
RT windows

**buildings (containment)**

2000-04-12

USE containment buildings

**BUILDUP**

1999-04-14

UF *accumulation*  
UF *radiation buildup*

*RT* depth dose distributions  
*RT* ionization  
*RT* ionizing radiations  
*RT* radiation doses  
*RT* radiations  
*RT* radioecological concentration  
*RT* scattering  
*RT* shielding  
*RT* spatial dose distributions

**BULBS**

*RT* allium sativum  
*RT* garlic  
*RT* onions  
*RT* plants

**BULGARIA**

BT1 developing countries  
 \*BT1 eastern europe  
*RT* black sea  
*RT* centrally planned economies  
*RT* danube river

**BULGARIAN ORGANIZATIONS**

1999-07-12

BT1 national organizations

**bulgarian research reactor irt-2000**

1993-11-04

USE irt-sofia reactor

**BULK DENSITY**

INIS: 1992-05-08; ETDE: 1978-05-03

\*BT1 density

**BULK SEMICONDUCTOR DETECTORS**

\*BT1 semiconductor detectors  
*RT* crystal counters

**bulk shielding reactor-1**

USE bsr-1 reactor

**bulk shielding reactor-2**

USE bsr-2 reactor

**BUMP-IN-TAIL INSTABILITY**

\*BT1 plasma microinstabilities  
*RT* resonance

**BUMPY TORI**

INIS: 1984-02-22; ETDE: 1984-03-06

\*BT1 magnetic mirrors  
 NT1 elmo bumpy torus  
*RT* tori

**BUNA**

\*BT1 rubbers  
*RT* butadiene

**bunching (beam)**

USE beam bunching

**BUNDESAMT FUER STRAHLENSCHUTZ**

1991-05-02

Federal Office for Radiation Protection,  
 Federal Republic of Germany.

UF bfs

UF saas

UF staat amt atomsicherheit und  
 strahlenschutz

UF staatliches amt fuer atomsicherheit  
 und strahlenschutz

\*BT1 german fr organizations

**BUNDLE DIVERTORS**

INIS: 1981-07-06; ETDE: 1979-09-26

Divertors that extract a bundle of magnetic  
 field lines.

BT1 divertors

*RT* toroidal field divertors

**bundles (fuel elements)**

USE fuel element clusters

**bunker oils**

INIS: 1992-05-21; ETDE: 1976-01-23

USE residual fuels

**bunkers**

INIS: 2000-04-12; ETDE: 1977-06-24

USE hoppers

**BUOYS**

INIS: 2000-04-12; ETDE: 1976-08-04

*RT* meteorology  
*RT* navigational instruments  
*RT* oceanography  
*RT* offshore operations  
*RT* water pollution

**bureau of mines (us)**

INIS: 1977-07-05; ETDE: 1976-11-17

USE us bureau of mines

**bureau of reclamation**

INIS: 2000-04-12; ETDE: 1980-08-25

(Prior to December 1991 this was a valid  
 ETDE descriptor.)

USE us bureau of reclamation

**BURGERS VECTOR**

*RT* dislocations

**BURKINA FASO**

1994-02-28

(Prior to February 2005 UPPER VOLTA was  
 also a valid descriptor.)

UF upper volta

BT1 africa

BT1 developing countries

**burma**

1999-01-26

(Until January 1999 this was a valid  
 descriptor.)

USE myanmar

**BURNABLE POISONS**

BT1 neutron absorbers

\*BT1 nuclear poisons

*RT* burnup

*RT* control elements

*RT* fluid poison control

*RT* poisoning

*RT* reactor control systems

*RT* reactor kinetics

**burner fuel oil**

INIS: 2000-04-12; ETDE: 1976-03-11

USE heating oils

**BURNERS**

1997-06-19

NT1 gas burners

NT1 oil burners

*RT* blowoff

*RT* combustion

*RT* combustors

*RT* flashback

*RT* furnaces

*RT* incinerators

*RT* pulse combustion

*RT* pulse combustors

*RT* stokers

**BURNOUT**

*RT* dryout

*RT* fuel elements

*RT* heat flux

*RT* heat transfer

*RT* hot spots

*RT* reactor accidents

**BURNOUT DEVICES**

\*BT1 magnetic mirrors

**BURNS**

\*BT1 injuries

NT1 flash burns

NT1 radiation burns

*RT* fires

*RT* safety showers

*RT* skin diseases

**BURNUP**

UF depletion (nuclear fuels)

NT1 burnup extension

*RT* burnable poisons

*RT* fuel cooling time

*RT* fuel cycle

*RT* fuel scanning

*RT* nuclear fuels

*RT* spent fuel elements

**BURNUP EXTENSION**

2003-10-21

BT1 burnup

**BURROS**

UF donkeys

\*BT1 mammals

**burroughs computers**

1997-01-28

(Until October 1996 this was a valid  
 descriptor.)

USE computers

**bursa of fabricius**

USE birds

USE lymphatic system

**burst can detection**

USE failed element detection

**burst can monitors**

USE failed element monitors

**burst reactors**

USE pulsed reactors

**burst slug detection**

USE failed element detection

**burst slug monitors**

USE failed element monitors

**BURUNDI**

INIS: 1992-06-04; ETDE: 1983-06-20

BT1 africa

BT1 developing countries

**BUSES**

1992-09-09

UF trolleybuses

BT1 vehicles

*RT* occupants

*RT* road tests

*RT* transportation systems

**bushehr-1 reactor**

2004-05-10

USE iran-1 reactor

**bushehr-2 reactor**

2004-05-10

USE iran-2 reactor

**BUSHINGS**

*RT* bearings

**BUSINESS**

INIS: 1992-02-21; ETDE: 1980-06-06

Buying and selling of goods and services;  
 also, the activity of an individual, partnership,

or organization involving production, commerce, and/or service.

NT1 marketing  
 NT1 procurement  
 NT1 small businesses  
 RT antitrust laws  
 RT economy  
 RT industry  
 RT market  
 RT sectoral analysis  
 RT trade

### buspr reactor

USE pulstar-buffalo reactor

### busulfan

USE myleran

### BUTADIENE

\*BT1 dienes  
 RT buna  
 RT neoprene  
 RT organic polymers

### BUTANE

\*BT1 alkanes

### BUTANEDIOLS

INIS: 2000-04-12; ETDE: 1979-07-18

\*BT1 glycols

### butanoic acid

USE butyric acid

### BUTANOLS

UF butyl alcohols  
 UF butyric alcohols  
 \*BT1 alcohols

### BUTENES

UF butylenes  
 \*BT1 alkenes

### butler-born approximation

USE butler theory

### BUTLER THEORY

UF butler-born approximation  
 RT stripping

### BUTOXY RADICALS

\*BT1 alkoxy radicals

### butt welds

INIS: 1976-03-17; ETDE: 2002-06-13

USE welded joints

### BUTTER

1996-10-22

\*BT1 milk products

### butter fat

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE fats  
 USE triglycerides

### buttercups

USE ranunculaceae

### butyl alcohols

USE butanols

### butyl-alpha-methylbenzylphenol

1996-06-26

(Prior to June 1996 BAMBP was used for this concept in ETDE.)

USE phenols

### BUTYL ETHER

UF dibutyl ether  
 \*BT1 ethers  
 RT organic solvents

### BUTYL PHOSPHATES

\*BT1 phosphoric acid esters  
 NT1 dbp  
 NT1 mbp  
 NT1 tbp

### BUTYL RADICALS

\*BT1 alkyl radicals

### butylamine

INIS: 1984-04-04; ETDE: 2002-06-13

USE amines

### butylenes

USE butenes

### BUTYRIC ACID

UF butanoic acid  
 \*BT1 monocarboxylic acids

### butyric alcohols

USE butanols

### butyrolactam

1996-04-29

USE pyrrolidones

### butyryl radicals

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE acyl radicals

### buyback

INIS: 1993-01-21; ETDE: 1980-03-04

USE sellback

### buyers

INIS: 1992-04-03; ETDE: 1979-10-03

USE marketers

### BW STANDARD REACTOR

1975-10-29

USA.

(Prior to 1975, PWR/241 TYPE REACTORS was used.)

UF babcock and wilcox standard reactor

UF pwr/241 type reactors

\*BT1 pwr type reactors

### bwr/6 type reactors

2000-01-10

USE ge standard reactor

### bwr superheater puerto rico reactor

1993-11-04

USE bonus reactor

### BWR TYPE REACTORS

UF boiling water cooled and moderated reactor

SF braun standard turbine island

SF c f braun standard turbine island

\*BT1 enriched uranium reactors

\*BT1 power reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

NT1 allens creek-1 reactor

NT1 allens creek-2 reactor

NT1 bailly-1 reactor

NT1 barsebaeck-1 reactor

NT1 barsebaeck-2 reactor

NT1 barton-1 reactor

NT1 barton-2 reactor

NT1 barton-3 reactor

NT1 barton-4 reactor

NT1 bell reactor

NT1 big rock point reactor

NT1 black fox-1 reactor

NT1 black fox-2 reactor

NT1 bolsa chica-1 reactor

NT1 bolsa chica-2 reactor

NT1 bonus reactor

NT1 browns ferry-1 reactor

NT1 browns ferry-2 reactor

NT1 browns ferry-3 reactor

NT1 brunsbuettel reactor

NT1 brunswick-1 reactor

NT1 brunswick-2 reactor

NT1 chinshan-1 reactor

NT1 chinshan-2 reactor

NT1 clinton-1 reactor

NT1 clinton-2 reactor

NT1 cofrentes reactor

NT1 cooper reactor

NT1 dodewaard reactor

NT1 douglas point-1 reactor

NT1 douglas point-2 reactor

NT1 dresden-1 reactor

NT1 dresden-2 reactor

NT1 dresden-3 reactor

NT1 duane arnold-1 reactor

NT1 ebwr reactor

NT1 enel-4 reactor

NT1 enrico fermi-2 reactor

NT1 err reactor

NT1 fitzpatrick reactor

NT1 forsmark-1 reactor

NT1 forsmark-2 reactor

NT1 forsmark-3 reactor

NT1 fukushima-1 reactor

NT1 fukushima-2 reactor

NT1 fukushima-3 reactor

NT1 fukushima-4 reactor

NT1 fukushima-5 reactor

NT1 fukushima-6 reactor

NT1 fukushima-ii-1 reactor

NT1 fukushima-ii-2 reactor

NT1 fukushima-ii-3 reactor

NT1 fukushima-ii-4 reactor

NT1 garigliano reactor

NT1 garona reactor

NT1 ge standard reactor

NT1 graben-1 reactor

NT1 graben-2 reactor

NT1 grand gulf-1 reactor

NT1 grand gulf-2 reactor

NT1 gundremmingen-2 reactor

NT1 gundremmingen-3 reactor

NT1 hamaoka-1 reactor

NT1 hamaoka-2 reactor

NT1 hamaoka-3 reactor

NT1 hamaoka-4 reactor

NT1 hamaoka-5 reactor

NT1 hartsville-1 reactor

NT1 hartsville-2 reactor

NT1 hartsville-3 reactor

NT1 hartsville-4 reactor

NT1 hatch-1 reactor

NT1 hatch-2 reactor

NT1 hdr reactor

NT1 hope creek-1 reactor

NT2 newbold island-1 reactor

NT1 hope creek-2 reactor

NT2 newbold island-2 reactor

NT1 humboldt bay reactor

NT1 isar reactor

NT1 jpdr-2 reactor

NT1 jpdr reactor

NT1 kaiseraugst reactor

NT1 kashiwazaki-kariwa-1 reactor

NT1 kashiwazaki-kariwa-2 reactor

NT1 kashiwazaki-kariwa-3 reactor

NT1 kashiwazaki-kariwa-4 reactor

NT1 kashiwazaki-kariwa-5 reactor

NT1 kashiwazaki-kariwa-6 reactor

NT1 kashiwazaki-kariwa-7 reactor

NT1 kruemmel reactor

NT1 kuosheng-1 reactor

NT1 kuosheng-2 reactor

NT1 la salle county-1 reactor

**NT1** la salle county-2 reactor  
**NT1** lachwr reactor  
**NT1** laguna verde-1 reactor  
**NT1** laguna verde-2 reactor  
**NT1** leibstadt reactor  
**NT1** limerick-1 reactor  
**NT1** limerick-2 reactor  
**NT1** lingen reactor  
**NT1** mendocino-1 reactor  
**NT1** mendocino-2 reactor  
**NT1** millstone-1 reactor  
**NT1** montague-1 reactor  
**NT1** montague-2 reactor  
**NT1** montalto di castro-1 reactor  
**NT1** montalto di castro-2 reactor  
**NT1** monticello reactor  
**NT1** muehleberg reactor  
**NT1** nine mile point-1 reactor  
**NT1** nine mile point-2 reactor  
**NT1** okg-1 reactor  
**NT1** okg-2 reactor  
**NT1** okg-3 reactor  
**NT1** olkiluoto-1 reactor  
**NT1** olkiluoto-2 reactor  
**NT1** onagawa-1 reactor  
**NT1** onagawa-2 reactor  
**NT1** onagawa-3 reactor  
**NT1** oyster creek-1 reactor  
**NT1** pathfinder reactor  
**NT1** peach bottom-2 reactor  
**NT1** peach bottom-3 reactor  
**NT1** perry-1 reactor  
**NT1** perry-2 reactor  
**NT1** philippsburg-1 reactor  
**NT1** phipps bend-1 reactor  
**NT1** phipps bend-2 reactor  
**NT1** pilgrim-1 reactor  
**NT1** quad cities-1 reactor  
**NT1** quad cities-2 reactor  
**NT1** ringhals-1 reactor  
**NT1** river bend-1 reactor  
**NT1** river bend-2 reactor  
**NT1** rwe-bayernwerk reactor  
**NT1** shika-1 reactor  
**NT1** shimane-1 reactor  
**NT1** shimane-2 reactor  
**NT1** shoreham reactor  
**NT1** skagit-1 reactor  
**NT1** skagit-2 reactor  
**NT1** sl-1 reactor  
**NT1** susquehanna-1 reactor  
**NT1** susquehanna-2 reactor  
**NT1** tarapur-1 reactor  
**NT1** tarapur-2 reactor  
**NT1** tokai-2 reactor  
**NT1** tsuruga reactor  
**NT1** tullnerfeld reactor  
**NT1** vak reactor  
**NT1** vbwr reactor  
**NT1** vermont yankee reactor  
**NT1** verplanck-1 reactor  
**NT1** verplanck-2 reactor  
**NT1** vk-50 reactor  
**NT1** wnp-2 reactor  
**NT1** wuergassen reactor  
**NT1** zimmer-1 reactor  
**NT1** zimmer-2 reactor

**BY-PRODUCTS**

1985-12-10

*RT* chars  
*RT* distillers dried grains  
*RT* industry  
*RT* pyrolysis products  
*RT* wastes

**byelorussian SSR**

1993-02-01

USE belarus

**BYPASSES**

*UF* shunts  
*RT* blood vessels  
*RT* coolant loops  
*RT* reactor cooling systems

**BYRON-1 REACTOR**

*Exelon Generation Co., LLC, Byron, Illinois, USA.*

\*BT1 pwr type reactors

**BYRON-2 REACTOR**

*Exelon Generation Co., LLC, Byron, Illinois, USA.*

\*BT1 pwr type reactors

**BYU L-77 REACTOR**

2000-04-12

*Brigham Young Univ., Provo, Utah, USA.*

*Shut down in 1982; dismantled in 1992.*

*UF* brigham young university laboratory reactor

\*BT1 aqueous homogeneous reactors

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**c-1430 resonances**

*INIS: 1988-03-08; ETDE: 1984-05-23*

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**c-2260 resonances**

*INIS: 2000-04-12; ETDE: 1978-10-19*

USE lambda c plus baryons

**C ANTIQUARKS**

2007-06-26

\*BT1 antiquarks

\*BT1 c quarks

**C CODES**

BT1 computer codes

**c f braun standard turbine island**

*INIS: 2000-04-12; ETDE: 1975-07-29*

SEE bwr type reactors

SEE steam systems

SEE turbogenerators

**C INVARIANCE**

*UF* charge conjugation invariance

BT1 invariance principles

*RT* electric charges

**C QUARKS**

*INIS: 1995-09-08; ETDE: 1995-10-03*

\*BT1 charm particles

\*BT1 quarks

**NT1** c antiquarks

*RT* charmonium

**c-reactive protein**

USE globulins

USE immunity

**C REACTOR**

*INIS: 1985-11-16; ETDE: 1983-11-23*

*Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.*

*UF* savannah river plant c reactor

\*BT1 heavy water moderated reactors

\*BT1 special production reactors

**C REGION**

*INIS: 1982-10-28; ETDE: 1976-04-19*

\*BT1 ionosphere

**C4 SPECIES**

*INIS: 1996-01-29; ETDE: 1986-06-12*

*Plants having a preliminary step in their carbon fixation pathway whereby carbon dioxide binds to phosphoenolpyruvate.*

**BT1** plants

*RT* calvin cycle species

*RT* carbon dioxide fixation

*RT* chloroplasts

*RT* leaves

*RT* photosynthesis

**cabbage**

USE brassica

**CABIBBO ANGLE**

*One of the two angles whose sines and cosines are the coefficients of strangeness-conserving and strangeness-changing vectors and axial parts of the hadronic current.*

*RT* current algebra

*RT* kobayashi-maskawa matrix

*RT* weak interactions

**CABLES**

*INIS: 1981-07-06; ETDE: 1976-08-04*

*For both electric and structural cables.*

*UF* tendons (structural)

**NT1** electric cables

**NT2** coaxial cables

**NT2** cryogenic cables

**NT2** gas-insulated cables

**NT2** oil-filled cables

**NT2** superconducting cables

*RT* chains

*RT* ropes

**cables (electric)**

2000-04-12

USE electric cables

**CABRI REACTOR**

*Nuclear Protection and Safety Inst., CEA St. Paul Lez Durance, France.*

*UF* cadarache swimming pool reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**cabriole event**

1994-10-14

*A test made under OPERATION CROSSTIE.*

(Prior to September 1994, this was a valid

ETDE descriptor.)

USE cratering explosions

USE nuclear explosions

**CACAO TREES**

*UF* theobroma

\*BT1 magnoliopsida

\*BT1 trees

*RT* cocoa products

**cacodylic acid**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE arsenic compounds

USE organic acids

**cactaceae**

1979-11-02

USE cacti

**CACTI**

1979-09-18

*UF* cactaceae

\*BT1 magnoliopsida

**cadarache (cea)**

USE cea cadarache

**cadarache fuel element testing reactor**

1993-11-04

USE pegase reactor

**cadarache maquette surgeneratic reactor**

1993-11-04

USE masurca reactor

**cadarache rapsodie reactor**

USE rapsodie reactor

**cadarache reactor marius**

USE marius reactor

**cadarache swimming pool reactor**

1999-04-15

USE cabri reactor

**CADAVERINE**

UF 1,5-diaminopentane

UF pentamethylenediamine

\*BT1 amines

**CADMIUM**

\*BT1 metals

**CADMIUM 100**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes

**CADMIUM 101**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**CADMIUM 102**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**CADMIUM 103**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**CADMIUM 104**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**CADMIUM 105**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**CADMIUM 106**

\*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

**CADMIUM 106 TARGET**

ETDE: 1976-07-09

BT1 targets

**CADMIUM 107**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei

**CADMIUM 108**

\*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

**CADMIUM 108 TARGET**

ETDE: 1976-07-09

BT1 targets

**CADMIUM 109**

\*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 years living radioisotopes

**CADMIUM 109 TARGET**

INIS: 1979-02-21; ETDE: 1979-03-28

BT1 targets

**CADMIUM 110**

\*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

**CADMIUM 110 TARGET**

ETDE: 1976-07-09

BT1 targets

**CADMIUM 111**

\*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 stable isotopes

**CADMIUM 111 TARGET**

ETDE: 1976-07-09

BT1 targets

**CADMIUM 112**

\*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

**CADMIUM 112 TARGET**

ETDE: 1976-07-09

BT1 targets

**CADMIUM 113**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 stable isotopes  
 \*BT1 years living radioisotopes

**CADMIUM 113 TARGET**

ETDE: 1976-07-09

BT1 targets

**CADMIUM 114**

\*BT1 cadmium isotopes  
 \*BT1 even-even nuclei

\*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

**CADMIUM 114 TARGET**

ETDE: 1976-07-09

BT1 targets

**CADMIUM 115**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei

**CADMIUM 116**

\*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

**CADMIUM 116 TARGET**

ETDE: 1976-07-09

BT1 targets

**CADMIUM 117**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei

**CADMIUM 118**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**CADMIUM 119**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**CADMIUM 120**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**CADMIUM 121**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**CADMIUM 122**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**CADMIUM 123**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**CADMIUM 124**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**CADMIUM 125**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes



- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 126**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 127**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 128**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 129**

2007-01-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 130**

INIS: 1987-02-25; ETDE: 1987-05-01

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 131**

2007-01-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 132**

2007-01-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 95**

2007-01-19

- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 96**

INIS: 1984-06-21; ETDE: 1983-10-11

- \*BT1 cadmium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 97**

INIS: 1980-02-26; ETDE: 1980-03-29

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CADMIUM 98**

INIS: 1977-02-08; ETDE: 1977-04-13

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CADMIUM 99**

INIS: 1980-02-26; ETDE: 1980-03-29

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CADMIUM ADDITIONS**

Alloys containing not more than 1% Cd are listed here.

- \*BT1 cadmium alloys
- NT1 zamak

**CADMIUM-AIR BATTERIES**

INIS: 2000-04-12; ETDE: 1976-03-22

- \*BT1 metal-gas batteries

**CADMIUM ALLOYS**

Alloys containing more than 1% Cd.

- BT1 alloys
- NT1 alloy-bi50pb25cd12sn12
- NT2 wood metal
- NT1 cadmium additions
- NT2 zamak
- NT1 cadmium base alloys
- NT1 cerrobend alloys

**CADMIUM ARSENIDE SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

- \*BT1 solar cells

**CADMIUM ARSENIDES**

INIS: 1978-04-21; ETDE: 1975-11-11

- \*BT1 arsenides
- BT1 cadmium compounds

**CADMIUM BASE ALLOYS**

- \*BT1 cadmium alloys

**CADMIUM BORIDES**

1996-06-26

(From June 1996 to February 2008

CADMIUM COMPOUNDS + BORIDES was used for this concept.)

- \*BT1 borides
- BT1 cadmium compounds

**CADMIUM BROMIDES**

- \*BT1 bromides
- \*BT1 cadmium halides

**CADMIUM CARBIDES**

INIS: 2000-04-12; ETDE: 1976-09-28

- BT1 cadmium compounds
- \*BT1 carbides

**CADMIUM CARBONATES**

- BT1 cadmium compounds
- \*BT1 carbonates

**CADMIUM CHLORIDES**

- \*BT1 cadmium halides
- \*BT1 chlorides

**CADMIUM COMPLEXES**

- BT1 complexes

**CADMIUM COMPOUNDS**

1997-06-17

- NT1 cadmium arsenides
- NT1 cadmium borides
- NT1 cadmium carbides
- NT1 cadmium carbonates

- NT1 cadmium halides
- NT2 cadmium bromides
- NT2 cadmium chlorides
- NT2 cadmium fluorides
- NT2 cadmium iodides
- NT1 cadmium hydroxides
- NT1 cadmium nitrates
- NT1 cadmium oxides
- NT1 cadmium perchlorates
- NT1 cadmium phosphates
- NT1 cadmium phosphides
- NT1 cadmium selenides
- NT1 cadmium silicates
- NT1 cadmium stannates
- NT1 cadmium sulfates
- NT1 cadmium sulfides
- NT1 cadmium tellurides
- NT1 cadmium titanates
- NT1 cadmium tungstates

**CADMIUM FLUORIDES**

- \*BT1 cadmium halides
- \*BT1 fluorides

**CADMIUM HALIDES**

1984-04-04

- BT1 cadmium compounds
- \*BT1 halides
- NT1 cadmium bromides
- NT1 cadmium chlorides
- NT1 cadmium fluorides
- NT1 cadmium iodides

**CADMIUM HYDROXIDES**

- BT1 cadmium compounds
- \*BT1 hydroxides

**CADMIUM IODIDES**

- \*BT1 cadmium halides
- \*BT1 iodides

**CADMIUM IONS**

- \*BT1 ions

**CADMIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 cadmium 100
- NT1 cadmium 101
- NT1 cadmium 102
- NT1 cadmium 103
- NT1 cadmium 104
- NT1 cadmium 105
- NT1 cadmium 106
- NT1 cadmium 107
- NT1 cadmium 108
- NT1 cadmium 109
- NT1 cadmium 110
- NT1 cadmium 111
- NT1 cadmium 112
- NT1 cadmium 113
- NT1 cadmium 114
- NT1 cadmium 115
- NT1 cadmium 116
- NT1 cadmium 117
- NT1 cadmium 118
- NT1 cadmium 119
- NT1 cadmium 120
- NT1 cadmium 121
- NT1 cadmium 122
- NT1 cadmium 123
- NT1 cadmium 124
- NT1 cadmium 125
- NT1 cadmium 126
- NT1 cadmium 127
- NT1 cadmium 128
- NT1 cadmium 129
- NT1 cadmium 130
- NT1 cadmium 131
- NT1 cadmium 132
- NT1 cadmium 95

NT1 cadmium 96  
 NT1 cadmium 97  
 NT1 cadmium 98  
 NT1 cadmium 99

**CADMIUM NITRATES**  
 BT1 cadmium compounds  
 \*BT1 nitrates

**CADMIUM OXIDES**  
 BT1 cadmium compounds  
 \*BT1 oxides

**CADMIUM PERCHLORATES**  
 BT1 cadmium compounds  
 \*BT1 perchlorates

**CADMIUM PHOSPHATES**  
 BT1 cadmium compounds  
 \*BT1 phosphates

**CADMIUM PHOSPHIDES**  
*INIS: 1977-01-25; ETDE: 1975-09-11*  
 BT1 cadmium compounds  
 \*BT1 phosphides

**CADMIUM SELENIDE SOLAR CELLS**  
*1992-05-28*  
 \*BT1 solar cells

**CADMIUM SELENIDES**  
 BT1 cadmium compounds  
 \*BT1 selenides

**CADMIUM SILICATES**  
 BT1 cadmium compounds  
 \*BT1 silicates

**CADMIUM STANNATES**  
*INIS: 2000-04-12; ETDE: 1976-02-19*  
 BT1 cadmium compounds  
 \*BT1 stannates

**CADMIUM SULFATES**  
 BT1 cadmium compounds  
 \*BT1 sulfates

**CADMIUM SULFIDE SOLAR CELLS**  
*1992-05-28*  
 \*BT1 solar cells

**CADMIUM SULFIDES**  
 BT1 cadmium compounds  
 \*BT1 inorganic phosphors  
 \*BT1 sulfides

*cadmium telluride detectors*  
 USE cdte semiconductor detectors

**CADMIUM TELLURIDE SOLAR CELLS**  
*1992-05-28*  
 \*BT1 solar cells

**CADMIUM TELLURIDES**  
 BT1 cadmium compounds  
 \*BT1 tellurides

**CADMIUM TITANATES**  
*INIS: 2000-04-12; ETDE: 1978-11-14*  
 BT1 cadmium compounds  
 \*BT1 titanates

**CADMIUM TUNGSTATES**  
 BT1 cadmium compounds  
 \*BT1 inorganic phosphors  
 \*BT1 tungstates

**caes**  
*INIS: 1993-01-27; ETDE: 1978-09-13*  
 USE compressed air energy storage

**caes plant**  
*INIS: 2000-04-12; ETDE: 1978-09-13*  
 USE compressed air storage power plants

**caesium**  
*ETDE: 2002-06-13*  
 USE cesium

**CAFB PROCESS**  
*2000-04-12*  
*Process consists of shallow fluidized bed of lime particles into which high-sulfur heavy fuel oil is injected.*  
 UF chemically active fluidized bed process  
 \*BT1 desulfurization  
 RT fluidized beds

**cafeterias**  
*INIS: 2000-04-12; ETDE: 1981-01-09*  
 USE restaurants

**CAFFEINE**  
 UF 1,3,7-trimethylxanthine  
 \*BT1 analeptics  
 \*BT1 xanthines

**cairo wwr-s reactor**  
*INIS: 1984-06-21; ETDE: 2002-06-13*  
 USE wwr-s-cairo reactor

**CAKING**  
*2000-04-12*  
 RT agglomeration  
 RT briquetting  
 RT caking power  
 RT compacting

**CAKING POWER**  
*2000-04-12*  
 RT caking

**calabash event**  
*1994-10-14*  
*A test made under OPERATION MANDREL. (Prior to September 1994, this was a valid ETDE descriptor.)*  
 USE nuclear explosions  
 USE underground explosions

**CALANDRIAS**  
 BT1 containers  
 RT pressure tubes

**CALCINATION**  
 \*BT1 pyrolysis  
 RT calcined wastes  
 RT pyrometallurgy  
 RT radioactive waste processing  
 RT waste processing

**CALCINED WASTES**  
*INIS: 1981-03-10; ETDE: 1980-11-12*  
*Waste forms resulting from the calcination of aqueous nuclear fuel reprocessing wastes and composed of granular solids of metallic oxides.*  
 \*BT1 radioactive wastes  
 RT calcination  
 RT radioactive waste processing  
 RT solid wastes

**CALCINOSIS**  
*INIS: 1984-04-04; ETDE: 1980-03-29*  
*A condition marked by the deposition of calcium salts in various tissues of the body.*  
 BT1 pathological changes

**CALCITE**  
 UF chalk  
 \*BT1 carbonate minerals  
 RT calcium carbonates

RT dolomite  
 RT limestone

**CALCITONIN**  
 \*BT1 peptide hormones  
 \*BT1 polypeptides  
 RT calcium  
 RT parathyroid glands  
 RT thymus  
 RT thyroid

**CALCIUM**  
 \*BT1 alkaline earth metals  
 RT blood coagulation factors  
 RT bone tissues  
 RT calcitonin  
 RT hyperparathyroidism  
 RT parathormone  
 RT teeth  
 RT thyrocalcitonin

**CALCIUM 34**  
*2007-03-13*  
 \*BT1 calcium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 proton decay radioisotopes

**CALCIUM 35**  
 \*BT1 calcium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei

**CALCIUM 36**  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 calcium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes

**CALCIUM 37**  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 calcium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes

**CALCIUM 38**  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 calcium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes

**CALCIUM 39**  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 calcium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes

**CALCIUM 39 TARGET**  
*INIS: 1992-09-22; ETDE: 1983-11-09*  
 BT1 targets

**CALCIUM 40**  
 \*BT1 calcium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 stable isotopes

**CALCIUM 40 BEAMS**  
*INIS: 1976-10-07; ETDE: 1976-11-01*  
 \*BT1 ion beams

**CALCIUM 40 REACTIONS**  
 \*BT1 heavy ion reactions

**CALCIUM 40 TARGET**  
*ETDE: 1976-07-09*  
 BT1 targets

**CALCIUM 41**

- \*BT1 calcium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 years living radioisotopes

**CALCIUM 41 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**CALCIUM 42**

- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CALCIUM 42 REACTIONS**

- 1984-11-30*  
\*BT1 heavy ion reactions

**CALCIUM 42 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**CALCIUM 43**

- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CALCIUM 43 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**CALCIUM 44**

- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CALCIUM 44 REACTIONS**

- INIS: 1977-09-15; ETDE: 1977-11-10*  
\*BT1 heavy ion reactions

**CALCIUM 44 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**CALCIUM 45**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM 46**

- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CALCIUM 46 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**CALCIUM 47**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM 48**

- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CALCIUM 48 BEAMS**

- INIS: 1977-04-07; ETDE: 1977-06-02*  
\*BT1 ion beams

**CALCIUM 48 REACTIONS**

- INIS: 1976-11-08; ETDE: 1976-12-16*  
\*BT1 heavy ion reactions

**CALCIUM 48 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**CALCIUM 49**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**CALCIUM 49 TARGET**

- INIS: 1984-06-21; ETDE: 1984-07-10*  
BT1 targets

**CALCIUM 50**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CALCIUM 51**

- INIS: 1984-06-21; ETDE: 1981-01-27*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 calcium isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes

**CALCIUM 52**

- INIS: 1984-10-19; ETDE: 1976-05-13*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 calcium isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes

**CALCIUM 53**

- INIS: 1984-06-21; ETDE: 1984-02-10*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 calcium isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes

**CALCIUM 54**

- 2007-03-13*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 calcium isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei

**CALCIUM 55**

- 2007-03-13*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 calcium isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei

**CALCIUM 56**

- 2007-03-13*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 calcium isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei

**CALCIUM 57**

- 2007-03-13*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 calcium isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei

**CALCIUM 58**

- 2007-03-13*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 calcium isotopes  
\*BT1 even-even nuclei

- \*BT1 intermediate mass nuclei

**CALCIUM 60**

- 2007-03-13*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 calcium isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei

**CALCIUM ADDITIONS**

- Alloys containing not more than 1% Ca are listed here.*  
\*BT1 calcium alloys

**CALCIUM ALLOYS**

- Alloys containing more than 1% Ca.*  
BT1 alloys  
NT1 calcium additions  
NT1 calcium base alloys

**CALCIUM BASE ALLOYS**

- \*BT1 calcium alloys

**CALCIUM BORIDES**

- \*BT1 borides
- \*BT1 calcium compounds

**CALCIUM BROMIDES**

- \*BT1 bromides
- \*BT1 calcium halides

**CALCIUM CARBIDES**

- \*BT1 calcium compounds
- \*BT1 carbides

**CALCIUM CARBONATES**

- 1996-07-08*  
\*BT1 calcium compounds  
\*BT1 carbonates  
*RT* ankerite  
*RT* aragonite  
*RT* calcite  
*RT* carbonate minerals  
*RT* dolomite  
*RT* limestone  
*RT* liming  
*RT* marble  
*RT* marlstone  
*RT* phosphate rocks  
*RT* shortite  
*RT* travertine

**CALCIUM CHLORIDES**

- \*BT1 calcium halides
- \*BT1 chlorides

**CALCIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**CALCIUM COMPOUNDS**

- 1997-06-17*  
BT1 alkaline earth metal compounds  
NT1 calcium borides  
NT1 calcium carbides  
NT1 calcium carbonates  
NT1 calcium halides  
NT2 calcium bromides  
NT2 calcium chlorides  
NT2 calcium fluorides  
NT2 calcium iodides  
NT1 calcium hydrides  
NT1 calcium hydroxides  
NT1 calcium nitrates  
NT1 calcium nitrides  
NT1 calcium oxides  
NT1 calcium perchlorates  
NT1 calcium phosphates  
NT1 calcium silicates  
NT1 calcium silicides  
NT1 calcium sulfates  
NT1 calcium sulfides  
NT1 calcium tungstates

**CALCIUM FLUORIDES**

- \*BT1 calcium halides
- \*BT1 fluorides
- RT fluorite
- RT halide minerals
- RT thermoluminescent dosimeters

**CALCIUM HALIDES**

1983-10-14

- \*BT1 calcium compounds
- \*BT1 halides
- NT1 calcium bromides
- NT1 calcium chlorides
- NT1 calcium fluorides
- NT1 calcium iodides

**CALCIUM HYDRIDES**

- \*BT1 calcium compounds
- \*BT1 hydrides

**CALCIUM HYDROXIDES**

- \*BT1 calcium compounds
- \*BT1 hydroxides

**calcium hydroxyapatite**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE apatites
- USE calcium phosphates

**CALCIUM IODIDES**

- \*BT1 calcium halides
- \*BT1 iodides

**CALCIUM IONS**

- \*BT1 ions

**CALCIUM ISOTOPES**

1999-02-01

- \*BT1 alkaline earth isotopes
- NT1 calcium 34
- NT1 calcium 35
- NT1 calcium 36
- NT1 calcium 37
- NT1 calcium 38
- NT1 calcium 39
- NT1 calcium 40
- NT1 calcium 41
- NT1 calcium 42
- NT1 calcium 43
- NT1 calcium 44
- NT1 calcium 45
- NT1 calcium 46
- NT1 calcium 47
- NT1 calcium 48
- NT1 calcium 49
- NT1 calcium 50
- NT1 calcium 51
- NT1 calcium 52
- NT1 calcium 53
- NT1 calcium 54
- NT1 calcium 55
- NT1 calcium 56
- NT1 calcium 57
- NT1 calcium 58
- NT1 calcium 60
- RT bone seekers

**CALCIUM NITRATES**

- \*BT1 calcium compounds
- \*BT1 nitrates

**CALCIUM NITRIDES**

- \*BT1 calcium compounds
- \*BT1 nitrides

**CALCIUM OXIDES**

1996-07-08

- \*BT1 calcium compounds
- \*BT1 oxides
- RT becquerelite
- RT ellsworthite
- RT liming

RT melanovanadite

RT oxide minerals

RT pascoite

RT perovskite

RT rauvite

RT tyuyamunite

RT zirconolite

**CALCIUM PERCHLORATES**

1991-09-16

- \*BT1 calcium compounds
- \*BT1 perchlorates

**CALCIUM PHOSPHATES**

1996-06-28

- UF calcium hydroxyapatite
- \*BT1 calcium compounds
- \*BT1 phosphates
- RT phosphate rocks

**CALCIUM SILICATES**

1996-11-13

- \*BT1 calcium compounds
- \*BT1 silicates
- RT epidotes
- RT garnets
- RT ilvaite
- RT kainosite
- RT lavenite
- RT ranquillite
- RT silicate minerals
- RT uranophane

**CALCIUM SILICIDES**

INIS: 2000-05-02; ETDE: 1976-06-07

- \*BT1 calcium compounds
- \*BT1 silicides

**CALCIUM SULFATES**

- \*BT1 calcium compounds
- \*BT1 sulfates
- RT anhydrite
- RT gypsum
- RT polyhalite
- RT sulfate minerals
- RT thermoluminescent dosimeters

**CALCIUM SULFIDES**

- \*BT1 calcium compounds
- \*BT1 sulfides

**CALCIUM TUNGSTATES**

- \*BT1 calcium compounds
- \*BT1 inorganic phosphors
- \*BT1 tungstates

**CALCRETES**

INIS: 1994-09-29; ETDE: 1978-06-14

*Conglomerate consisting of surficial sand and gravel cemented in a hard mass by calcium carbonate. Important host for uranium deposits in some parts of the world.*  
(Until September 1994 this concept was indexed to LIMESTONE.)

- \*BT1 conglomerates

**CALCULATION METHODS**

INIS: 1996-07-08; ETDE: 1975-11-11

- NT1 adjoint difference method
- NT1 approximations
  - NT2 adiabatic approximation
  - NT2 born approximation
    - NT3 coupled channel born approximation
    - NT3 dwba
  - NT2 born-oppenheimer approximation
  - NT2 brinkman-kramers approximation
  - NT2 broken-pair approximation
  - NT2 diabatic approximation
  - NT2 dirac approximation
  - NT2 eikonal approximation
  - NT2 equivalent-photon approximation
- NT2 fsc approximation
- NT2 guiding-center approximation
- NT2 hartree-fock method
- NT2 impulse approximation
- NT2 ladder approximation
- NT2 pade approximation
- NT2 random phase approximation
- NT2 rosseland approximation
- NT2 semiclassical approximation
- NT2 spherical harmonics method
  - NT3 p1-approximation
  - NT3 p2-approximation
  - NT3 p3-approximation
- NT2 straight-line path approximation
- NT2 sudden approximation
- NT2 tomonaga approximation
- NT2 unitary pole approximation
- NT2 wkb approximation
- NT2 zero-range approximation
- NT1 binary encounter method
- NT1 bogolyubov method
- NT1 brueckner method
- NT1 case method
- NT1 chew-low method
- NT1 collision probability method
- NT1 deterministic estimation
- NT1 discrete ordinate method
- NT1 dynamic programming
- NT1 feynman method
- NT1 finite element method
  - NT2 boundary element method
- NT1 generator-coordinate method
- NT1 homogenization methods
- NT1 iterative methods
  - NT2 finite difference method
  - NT2 galerkin-petrov method
  - NT2 newton method
  - NT2 runge-kutta method
- NT1 k-harmonics method
- NT1 lcao method
- NT1 linear programming
- NT1 lyapunov method
- NT1 molecular dynamics method
- NT1 molecular orbital method
- NT1 moments method
- NT1 monte carlo method
- NT1 multiple collision method
- NT1 n-d method
- NT1 nodal expansion method
- NT1 nonlinear programming
- NT1 omnes-muskhelishvili method
- NT1 oseen method
- NT1 patterson method
- NT1 probabilistic estimation
- NT1 response matrix method
- NT1 ritz method
- NT1 rydberg-klein-rees method
- NT1 saddle-point method
- NT1 slater method
- NT1 tamm-dancoff method
- NT1 transfer matrix method
- NT1 variational methods
  - NT2 density functional method
  - NT2 hsk procedure
  - NT2 resonating-group method
  - NT2 schwinger variational method
- NT1 wick-chandrasekhar method
- NT1 wigner-seitz method
- NT1 yvon method
- RT algorithms
- RT mathematical solutions
- RT measuring methods
- RT numerical solution
- RT sensitivity analysis

**calculations (1-dimensional)**

- USE one-dimensional calculations

**calculations (2-dimensional)**

USE two-dimensional calculations

**calculations (3-dimensional)**

USE three-dimensional calculations

**calculations (4-dimensional)**

USE four-dimensional calculations

**calculations (computer)**

USE computer calculations

**calculations (many dimensions)**

USE many-dimensional calculations

**CALCULATORS**

INIS: 1985-12-10; ETDE: 1978-11-14

*Small, often hand-held, devices capable of carrying out limited logic and arithmetic operations.*

UF pocket calculators

\*BT1 digital computers

RT data processing

**CALCULI***In biology and medicine only; to be assigned in coordination with descriptors specifying their location such as URINARY TRACT, PANCREAS, etc.*

UF gallstones

UF kidney stones

RT kidneys

RT urinary tract

**calculus (differential)**

USE differential calculus

**CALCUTTA CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24

\*BT1 heavy ion accelerators

\*BT1 variable energy cyclotrons

**CALDASITE**

BT1 rocks

\*BT1 uranium ores

RT baddeleyite

RT zircon

**CALDER HALL A-1 REACTOR***Seascale, Cumbria, United Kingdom.*

UF a-1 reactor (calder hall)

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

**CALDER HALL A-2 REACTOR***Seascale, Cumbria, United Kingdom.*

UF a-2 reactor (calder hall)

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

**CALDER HALL B-3 REACTOR***Seascale, Cumbria, United Kingdom.*

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

**CALDER HALL B-4 REACTOR***Seascale, Cumbria, United Kingdom.*

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

**CALDERAS**

INIS: 1984-04-04; ETDE: 1976-08-04

*Large, basin-shaped volcanic depressions, more or less circular in form, the diameter of**which is many times greater than that of the included vent or vents.*

RT volcanoes

**CALENDARS**

INIS: 2000-04-12; ETDE: 1975-11-28

RT time measurement

**CALHOUN-1 REACTOR***Omaha Public Power District, Fort Calhoun, Nebraska, USA.*

UF fort calhoun-1 reactor

\*BT1 pwr type reactors

**CALHOUN-2 REACTOR**

INIS: 1976-02-11; ETDE: 1975-11-28

*Omaha Public Power District, Fort Calhoun, Nebraska, USA. Canceled in 1977 before construction began.*

UF fort calhoun-2 reactor

\*BT1 pwr type reactors

**CALIBRATION**

RT absolute counting

RT accuracy

RT calibration standards

RT inspection

RT scaling laws

**CALIBRATION STANDARDS**

UF reference materials (standard)

UF srm

UF standard reference materials

UF standards (calibration)

BT1 standards

RT accuracy

RT calibration

RT interlaboratory comparisons

RT nisl facility

RT ssdl

RT standardization

**CALIFORNIA**

1997-06-19

UF humboldt bay

\*BT1 usa

NT1 brawley geothermal field

NT1 coso hot springs

NT1 los angeles

RT atomics international canoga park plant

RT cascade mountains

RT edna deposit

RT geysers geothermal field

RT great basin

RT heber geothermal field

RT imperial valley

RT lawrence berkeley laboratory

RT lawrence livermore laboratory

RT lawrence livermore national

RT laboratory

RT long valley

RT salton sea geothermal field

RT san bernardino mountains

RT san francisco bay

RT sandia laboratories

RT sandia national laboratories

RT santa barbara channel

RT sierra nevada colorado

RT stanford linear accelerator center

RT ucla

RT us naval petroleum reserves

RT us west coast

RT wendell-amedee hot springs

**california berkeley triga reactor**

INIS: 1993-11-04; ETDE: 2002-06-13

USE ucbr reactor

**california irvine triga-mk-1 reactor**

INIS: 1993-11-04; ETDE: 2002-06-13

USE triga-1-california reactor

**CALIFORNIUM**

\*BT1 actinides

\*BT1 transplutonium elements

**CALIFORNIUM 236**

2007-07-10

\*BT1 actinide nuclei

\*BT1 californium isotopes

\*BT1 even-even nuclei

**CALIFORNIUM 237**

2007-07-10

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 californium isotopes

\*BT1 even-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**CALIFORNIUM 238**

INIS: 1992-09-22; ETDE: 1979-11-23

\*BT1 actinide nuclei

\*BT1 californium isotopes

\*BT1 even-even nuclei

**CALIFORNIUM 239**

INIS: 1986-06-09; ETDE: 1982-03-11

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 californium isotopes

\*BT1 even-odd nuclei

\*BT1 seconds living radioisotopes

**CALIFORNIUM 240**

INIS: 1986-06-09; ETDE: 1988-12-05

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 californium isotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

**CALIFORNIUM 241**

INIS: 1986-06-09; ETDE: 1988-12-05

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 californium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

**CALIFORNIUM 242**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 californium isotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

**CALIFORNIUM 243**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 californium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

**CALIFORNIUM 244**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 californium isotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

**CALIFORNIUM 244 TARGET**

INIS: 1992-09-22; ETDE: 1978-09-11

BT1 targets

**CALIFORNIUM 245**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

- \*BT1 californium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes

**CALIFORNIUM 246**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes

**CALIFORNIUM 246 TARGET**

*INIS: 1992-09-22; ETDE: 1984-08-06*  
BT1 targets

**CALIFORNIUM 247**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes

**CALIFORNIUM 248**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes

**CALIFORNIUM 249**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 even-odd nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CALIFORNIUM 249 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**CALIFORNIUM 250**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 even-even nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CALIFORNIUM 250 TARGET**

*INIS: 1978-07-03; ETDE: 1977-08-24*  
BT1 targets

**CALIFORNIUM 251**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 even-odd nuclei
- \*BT1 years living radioisotopes

**CALIFORNIUM 251 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**CALIFORNIUM 252**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CALIFORNIUM 252 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**CALIFORNIUM 253**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei

**CALIFORNIUM 254**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes

**CALIFORNIUM 254 TARGET**

*INIS: 1978-09-28; ETDE: 1978-07-05*  
BT1 targets

**CALIFORNIUM 255**

*INIS: 1977-01-25; ETDE: 1976-11-01*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 californium isotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes

**CALIFORNIUM 256**

*INIS: 1978-09-28; ETDE: 1977-12-22*

- \*BT1 actinide nuclei
- \*BT1 californium isotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**californium additions**

*2000-04-12*

(Prior to August 1993 this was a valid ETDE descriptor.)  
USE alloys

**CALIFORNIUM ALLOYS**

*INIS: 1979-04-27; ETDE: 1978-10-23*

*Alloys containing more than 1% Cf.*  
\*BT1 actinide alloys

**CALIFORNIUM ARSENIDES**

*INIS: 1996-07-18; ETDE: 1978-10-23*

(From July 1996 to February 2008 CALIFORNIUM COMPOUNDS + ARSENIDES was used for this concept.)  
\*BT1 arsenides  
\*BT1 californium compounds

**CALIFORNIUM BROMIDES**

- \*BT1 bromides
- \*BT1 californium compounds

**CALIFORNIUM CHLORIDES**

- \*BT1 californium compounds
- \*BT1 chlorides

**CALIFORNIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**CALIFORNIUM COMPOUNDS**

*1996-11-13*

- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 californium arsenides
- NT1 californium bromides
- NT1 californium chlorides
- NT1 californium fluorides
- NT1 californium halides
- NT2 californium iodides
- NT1 californium nitrates
- NT1 californium nitrides
- NT1 californium oxides
- NT1 californium selenides
- NT1 californium sulfides

NT1 californium tellurides

**CALIFORNIUM FLUORIDES**

- \*BT1 californium compounds
- \*BT1 fluorides

**CALIFORNIUM HALIDES**

*2008-02-07*

- \*BT1 californium compounds
- \*BT1 halides
- NT1 californium iodides

**CALIFORNIUM IODIDES**

*1997-01-28*

(From October 1996 to February 2008

CALIFORNIUM COMPOUNDS + IODIDES was used for this concept.)

- \*BT1 californium halides
- \*BT1 iodides

**CALIFORNIUM IONS**

- \*BT1 ions

**CALIFORNIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 californium 236
- NT1 californium 237
- NT1 californium 238
- NT1 californium 239
- NT1 californium 240
- NT1 californium 241
- NT1 californium 242
- NT1 californium 243
- NT1 californium 244
- NT1 californium 245
- NT1 californium 246
- NT1 californium 247
- NT1 californium 248
- NT1 californium 249
- NT1 californium 250
- NT1 californium 251
- NT1 californium 252
- NT1 californium 253
- NT1 californium 254
- NT1 californium 255
- NT1 californium 256

**CALIFORNIUM NITRATES**

*1997-01-28*

(From November 1996 to November 2007

CALIFORNIUM COMPOUNDS + NITRATES was used for this concept.)

- \*BT1 californium compounds
- \*BT1 nitrates

**CALIFORNIUM NITRIDES**

*1996-07-18*

(From July 1996 to November 2007

CALIFORNIUM COMPOUNDS + NITRIDES was used for this concept.)

- \*BT1 californium compounds
- \*BT1 nitrides

**CALIFORNIUM OXIDES**

- \*BT1 californium compounds
- \*BT1 oxides

**CALIFORNIUM SELENIDES**

*INIS: 1996-07-18; ETDE: 1978-10-23*

(From July 1996 to November 2007

CALIFORNIUM COMPOUNDS + SELENIDES was used for this concept.)

- \*BT1 californium compounds
- \*BT1 selenides

**CALIFORNIUM SULFIDES**

*1996-07-18*

(From July 1996 to November 2007

CALIFORNIUM COMPOUNDS + SULFIDES was used for this concept.)

- \*BT1 californium compounds

\*BT1 sulfides

### CALIFORNIUM TELLURIDES

INIS: 1996-07-18; ETDE: 1978-10-23

(From July 1996 to February 2008

CALIFORNIUM COMPOUNDS + TELLURIDES was used for this concept.)

\*BT1 californium compounds

\*BT1 tellurides

### CALIPER LOGGING

INIS: 2000-04-12; ETDE: 1976-08-24

BT1 well logging

### CALIXARENES

1998-09-23

\*BT1 condensed aromatics

### CALLAWAY-1 REACTOR

Union Electric Co., Fulton, Missouri, USA.

\*BT1 pwr type reactors

### CALLAWAY-2 REACTOR

Union Electric Co., Fulton, Missouri, USA.

Canceled in 1981 before construction began.

\*BT1 pwr type reactors

### CALMODULIN

INIS: 1993-08-03; ETDE: 1987-07-22

\*BT1 proteins

RT membrane transport

RT receptors

### caloricon process

INIS: 2000-04-12; ETDE: 1981-08-04

(Prior to April 1994, this was a valid ETDE descriptor.)

USE waste processing

### CALORIFIC VALUE

INIS: 1992-03-17; ETDE: 1976-01-23

Quantity of heat liberated on the complete combustion of a unit weight or unit volume of fuel.

UF btu content

BT1 combustion properties

RT combustion

RT combustion heat

RT fuels

### calorimeter detectors

INIS: 1986-07-09; ETDE: 2002-06-13

USE shower counters

### CALORIMETERS

BT1 measuring instruments

RT calorimetric dosimeters

RT calorimetry

RT temperature measurement

### calorimeters (particle)

INIS: 2000-04-12; ETDE: 1979-03-28

USE shower counters

### CALORIMETRIC DOSEMETERS

\*BT1 dosimeters

RT calorimeters

RT thermocouples

### CALORIMETRY

RT calorimeters

RT heat transfer

RT temperature measurement

### calorizing

USE diffusion coating

### caltech synchrotron

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE synchrotrons

### calutrons

INIS: 2000-04-12; ETDE: 1984-02-10

USE electromagnetic isotope separators

### CALVERT CLIFFS-1 REACTOR

CCNPPI - subsidiary of Constellation Energy

Group, Lusby, Maryland, USA.

\*BT1 pwr type reactors

### CALVERT CLIFFS-2 REACTOR

CCNPPI - subsidiary of Constellation Energy

Group, Lusby, Maryland, USA.

\*BT1 pwr type reactors

### CALVES

\*BT1 cattle

### CALVIN CYCLE SPECIES

INIS: 1992-04-28; ETDE: 1986-07-03

Plants that fix carbon by the reductive pentose phosphate pathway only.

BT1 plants

RT c4 species

RT carbon dioxide fixation

RT chloroplasts

RT leaves

RT photosynthesis

### cam

INIS: 1984-01-18; ETDE: 1983-07-07

USE computer-aided manufacturing

### CAMAC SYSTEM

Computer Application to Measurement And Control.

RT computers

RT data acquisition systems

RT data transmission

RT electronic equipment

RT equipment interfaces

RT fastbus system

RT modular structures

RT nuclear instrument modules

RT on-line control systems

RT specifications

### cambium

USE meristems

### CAMBODIA

BT1 asia

### CAMBRIAN PERIOD

INIS: 1992-04-14; ETDE: 1977-10-19

\*BT1 paleozoic era

### CAMBRIDGE ELECTRON ACCELERATOR

UF cea (accelerator)

\*BT1 synchrotrons

### camellia sinensis

1980-11-07

USE tea plants

### CAMELS

INIS: 1992-03-02; ETDE: 1992-02-05

\*BT1 ruminants

RT domestic animals

### CAMERA TUBES

1996-07-08

(Prior to July 1996 ICONOSCOPES and ORTHICONS were valid ETDE descriptors.)

UF iconoscopes

UF orthicons

BT1 image tubes

NT1 vidicons

RT television

### CAMERAS

NT1 gamma cameras

NT2 positron cameras

NT1 neutron cameras

NT1 streak cameras

NT1 television cameras

RT photography

RT radioisotope scanning

### CAMEROON

BT1 africa

BT1 developing countries

### camp

USE amp

### camp century medium power plant 2a

1993-11-04

USE pm-2a reactor

### CAMPBELLING CIRCUITS

1976-08-17

Circuits based on Campbell's mean square theorem for evaluating the signal from an ionization chamber.

BT1 electronic circuits

RT ionization chambers

### camphene

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE cycloalkenes

USE terpenes

### CAMPHOR

\*BT1 ketones

\*BT1 terpenes

RT celluloid

### CANADA

1997-06-17

BT1 developed countries

BT1 north america

NT1 alberta

NT1 british columbia

NT1 manitoba

NT1 new brunswick

NT1 newfoundland

NT1 northwestern territories

NT1 nova scotia

NT1 nunavut

NT1 ontario

NT2 chalk river

NT2 deep river

NT2 elliot lake

NT1 prince edward island

NT1 quebec

NT1 saskatchewan

NT1 yukon territory

RT appalachian mountains

RT athabasca deposit

RT bay of fundy

RT chalk river nuclear labs

RT cold lake deposit

RT fraser river

RT lake wabamun

RT nelson river

RT oecd

RT peace river deposit

RT polar gas project

RT rocky mountains

RT saint clair river

RT saint john river

RT wabasca deposit

### canada-india reactor

USE cirus reactor

### canada nrx research reactor

USE nrx reactor

**CANADIAN AECB**

INIS: 1977-03-14; ETDE: 1977-06-02  
*Canadian Atomic Energy Control Board.*  
 UF aecb canada  
 UF atomic energy control board (canada)  
 \*BT1 canadian organizations

**canadian nru reactor**

USE nru reactor

**CANADIAN ORGANIZATIONS**

BT1 national organizations  
 NT1 atomic energy of canada ltd  
 NT2 chalk river nuclear labs  
 NT2 wre  
 NT1 canadian aecb

**canal manivier**

2004-12-15  
 USE manivier canal

**canals (waterways)**

USE inland waterways

**CANARE**

INIS: 1989-02-24; ETDE: 1989-03-20  
*Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency.*  
 UF assistance in nuclear accident/radiological emergency conv.  
 UF conv assist nuc acc/rad emerg  
 \*BT1 international agreements  
 RT iaea  
 RT radiation accidents  
 RT reactor accidents

**CANARY ISLANDS**

2000-04-12  
 BT1 islands  
 \*BT1 spain

**canberra tokamak**

ETDE: 1976-05-19  
 USE lt-3 tokamak

**CANCELLATION**

INIS: 1985-03-19; ETDE: 1983-09-15  
*Primarily for, but not limited to, energy facilities.*  
 RT amortization  
 RT decommissioning  
 RT planning  
 RT shutdown

**cancer**

USE neoplasms

**CANDIDA**

UF monilia  
 \*BT1 yeasts

**candu reactor**

INIS: 1975-09-12; ETDE: 1975-12-16  
 USE douglas point ontario reactor

**CANDU TYPE REACTORS**

INIS: 1975-09-12; ETDE: 1975-10-28  
*Thermal power reactors of Canadian design characterized by heavy water moderator, pressure tube construction, and on-power refuelling.*  
 \*BT1 heavy water moderated reactors  
 \*BT1 pressure tube reactors  
 \*BT1 thermal reactors  
 NT1 bruce-1 reactor  
 NT1 bruce-2 reactor  
 NT1 bruce-3 reactor  
 NT1 bruce-4 reactor  
 NT1 bruce-5 reactor  
 NT1 bruce-6 reactor

NT1 bruce-7 reactor  
 NT1 bruce-8 reactor  
 NT1 cernavoda-1 reactor  
 NT1 cordoba reactor  
 NT1 darlington-1 reactor  
 NT1 darlington-2 reactor  
 NT1 darlington-3 reactor  
 NT1 darlington-4 reactor  
 NT1 douglas point ontario reactor  
 NT1 embalse reactor  
 NT1 gentilly-2 reactor  
 NT1 gentilly reactor  
 NT1 kaiga-1 reactor  
 NT1 kaiga-2 reactor  
 NT1 kakrapar-1 reactor  
 NT1 kakrapar-2 reactor  
 NT1 kanupp reactor  
 NT1 npd reactor  
 NT1 pickering-1 reactor  
 NT1 pickering-2 reactor  
 NT1 pickering-3 reactor  
 NT1 pickering-4 reactor  
 NT1 pickering-5 reactor  
 NT1 pickering-6 reactor  
 NT1 pickering-7 reactor  
 NT1 pickering-8 reactor  
 NT1 point lepreau-1 reactor  
 NT1 point lepreau-2 reactor  
 NT1 qinshan-3-1 reactor  
 NT1 qinshan-3-2 reactor  
 NT1 rajasthan-1 reactor  
 NT1 rajasthan-2 reactor  
 NT1 rajasthan-3 reactor  
 NT1 rajasthan-4 reactor  
 NT1 wolsung-1 reactor  
 NT1 wolsung-2 reactor  
 NT1 wolsung-3 reactor  
 NT1 wolsung-4 reactor

**canines**

INIS: 2000-04-12; ETDE: 1981-06-15  
 USE dogs

**canis latrans**

INIS: 1993-02-18; ETDE: 1981-04-17  
 USE coyotes

**canisters**

INIS: 2000-04-12; ETDE: 1984-11-08  
 USE containers

**CANNEL COAL**

2000-04-12  
 \*BT1 sapropelic coal

**cannikin event**

1994-10-14  
*A test made during OPERATION GROMMET. (Prior to September 1994, this was a valid ETDE descriptor.)*  
 USE nuclear explosions  
 USE underground explosions

**CANNING**

UF sheathing  
 \*BT1 materials working  
 RT cladding  
 RT fuel cans

**canning (food)**

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE food processing

**CANONICAL DIMENSION**

*Scale dimension of quantum fields obeying canonical equal-time commutation relations.*  
 BT1 scale dimension  
 RT commutation relations

**canonical equations**

USE differential equations

**canonical quantum field theory**

INIS: 1977-11-21; ETDE: 1979-05-03  
 USE lagrangian field theory

**CANONICAL TRANSFORMATIONS**

BT1 transformations  
 NT1 bogolyubov transformation  
 NT1 foldy-wouthuysen transform  
 RT equations of motion  
 RT mathematics  
 RT mechanics  
 RT quantum mechanics

**CANOPIES**

INIS: 1992-03-05; ETDE: 1985-02-07  
*Vegetative canopies only.*  
 RT forests  
 RT ground cover  
 RT leaves  
 RT plants  
 RT throughfall  
 RT trees

**caorso reactor**

2000-04-12  
 USE enel-4 reactor

**CAP ROCK**

2000-04-12  
 RT rocks

**CAPACITANCE**

INIS: 1984-01-18; ETDE: 1981-06-13  
 \*BT1 electrical properties  
 RT deep level transient spectroscopy  
 RT dielectric properties  
 RT electric charges  
 RT electric impedance  
 RT inductance

**CAPACITIVE ENERGY STORAGE EQUIPMENT**

INIS: 2000-04-12; ETDE: 1979-02-27  
 SF supercapacitors  
 BT1 equipment  
 RT capacitors  
 RT energy storage  
 RT energy storage systems  
 RT peaking power plants

**CAPACITORS**

UF condensers (electric)  
 UF electric condensers  
 \*BT1 electrical equipment  
 RT capacitive energy storage equipment  
 RT dielectric materials  
 RT electrostatics  
 RT energy storage  
 RT energy storage systems  
 RT power supplies

**capacitrons**

1996-06-26  
 (Until June 1996 this was a valid descriptor.)  
 USE rectifier tubes

**CAPACITY**

INIS: 1982-12-03; ETDE: 1977-06-02  
*Coordinate with descriptor for appropriate other term. Not for electrical capacitance.*  
 UF generating capacity  
 UF production capacity  
 UF reserve capacity  
 RT load management  
 RT outages  
 RT power generation  
 RT production

**CAPE FEAR RIVER**

\*BT1 rivers  
 RT north carolina



**CAPE KENNEDY**

\*BT1 florida

**CAPE VERDE ISLANDS**

INIS: 1992-06-04; ETDE: 1979-12-10

BT1 islands  
RT atlantic ocean**CAPILLARIES**\*BT1 blood vessels  
RT animal tissues  
RT glomeruli  
RT histamine  
RT respiration  
RT supercritical fluid chromatography  
RT vasoconstriction  
RT vasodilation**capillary action shaping technique**

INIS: 2000-04-12; ETDE: 1980-02-11

USE cast method

**CAPILLARY FLOW**BT1 fluid flow  
RT heat pipe wicks  
RT heat pipes**CAPITAL**RT capitalized cost  
RT cost  
RT economics  
RT euromarket  
RT expenditures  
RT financing  
RT investment**capital costs**

INIS: 2000-04-12; ETDE: 1983-02-09

USE capitalized cost

**CAPITALIZED COST**

INIS: 1985-07-18; ETDE: 1980-06-06

(Prior to August 1985 CAPITAL COST was used.)

UF capital costs  
BT1 cost  
RT capital  
RT economic analysis  
RT operating cost**capric acid**

USE decanoic acid

**caproic acid**

USE hexanoic acid

**caprylic acid**

USE octanoic acid

**CAPSICUM**\*BT1 magnoliopsida  
RT peppers  
RT spices**CAPSULES**BT1 containers  
RT encapsulation**capsules (irradiation)**

USE irradiation capsules

**CAPTURE**

1996-01-24

For capture cross sections, see also INTEGRAL CROSS SECTIONS.

UF neutron capture  
UF radiative capture  
NT1 electron capture  
RT capture-to-fission ratio  
RT electron capture decay  
RT interactions  
RT nuclear reactions  
RT panofsky ratioRT r process  
RT valency model**CAPTURE-TO-FISSION RATIO**UF neutron capture-to-fission ratio  
BT1 dimensionless numbers  
RT capture  
RT fission ratio  
RT interactions  
RT nuclear reactions**carassius**

USE goldfish

**caraway**

USE ranunculaceae

**CARBAMATES**\*BT1 carbonic acid derivatives  
BT1 carboxylic acid salts  
\*BT1 organic nitrogen compounds  
NT1 dedtc  
NT1 urethane  
RT carbamic acid esters**CARBAMIC ACID ESTERS**\*BT1 carboxylic acid esters  
RT carbamates**carbamide**

USE urea

**carbanions**INIS: 2000-04-12; ETDE: 1981-05-18  
Negatively charged organic ions having one more electron than the corresponding free radical.  
(Prior to February 1997 this was a valid ETDE descriptor.)  
USE anions**CARBAZIDES**\*BT1 carbonic acid derivatives  
\*BT1 organic nitrogen compounds**CARBAZOLES**UF dibenzopyrroles  
\*BT1 azaarenes  
\*BT1 azoles  
RT pyrroles**CARBAZONES**1996-10-23  
(Prior to March 1997  
DIPHENYLCARBAZONES was a valid  
ETDE descriptor.)UF diphenylcarbazones  
\*BT1 carbonic acid derivatives  
\*BT1 organic nitrogen compounds  
NT1 dithizone**CARBENES**INIS: 1983-02-03; ETDE: 1978-03-03  
Organic radicals containing divalent carbon as CH<sub>2</sub>, CHO, CHF, etc.  
BT1 radicals  
RT reaction intermediates**CARBIDES**1997-06-19  
BT1 carbon compounds  
NT1 aluminium carbides  
NT1 americium carbides  
NT1 barium carbides  
NT1 beryllium carbides  
NT1 boron carbides  
NT1 cadmium carbides  
NT1 calcium carbides  
NT1 cerium carbides  
NT1 cesium carbides  
NT1 chromium carbides  
NT1 cobalt carbidesNT1 copper carbides  
NT1 dysprosium carbides  
NT1 erbium carbides  
NT1 europium carbides  
NT1 gadolinium carbides  
NT1 gallium carbides  
NT1 germanium carbides  
NT1 hafnium carbides  
NT1 holmium carbides  
NT1 indium carbides  
NT1 iridium carbides  
NT1 iron carbides  
NT2 cementite  
NT2 ni-hard  
NT1 lanthanum carbides  
NT1 lead carbides  
NT1 lithium carbides  
NT1 lutetium carbides  
NT1 magnesium carbides  
NT1 manganese carbides  
NT1 molybdenum carbides  
NT1 neodymium carbides  
NT1 neptunium carbides  
NT1 nickel carbides  
NT1 niobium carbides  
NT1 nitrogen carbides  
NT1 osmium carbides  
NT1 palladium carbides  
NT1 platinum carbides  
NT1 plutonium carbides  
NT1 potassium carbides  
NT1 praseodymium carbides  
NT1 protactinium carbides  
NT1 rhenium carbides  
NT1 rhodium carbides  
NT1 rubidium carbides  
NT1 ruthenium carbides  
NT1 samarium carbides  
NT1 scandium carbides  
NT1 selenium carbides  
NT1 silicon carbides  
NT1 sodium carbides  
NT1 strontium carbides  
NT1 tantalum carbides  
NT1 technetium carbides  
NT1 terbium carbides  
NT1 thallium carbides  
NT1 thorium carbides  
NT1 thulium carbides  
NT1 tin carbides  
NT1 titanium carbides  
NT1 tungsten carbides  
NT1 uranium carbides  
NT1 vanadium carbides  
NT1 ytterbium carbides  
NT1 yttrium carbides  
NT1 zinc carbides  
NT1 zirconium carbides  
RT carbon additions  
RT carbonitrides  
RT ceramics  
RT decarburization  
RT oxycarbides**carbinol**

USE methanol

**carbitols**1996-06-26  
Diglycol monoalkyl ethers.  
(Until June 1996 this was a valid descriptor.)  
USE ethers  
USE glycols  
USE organic solvents**CARBOHYDRATES**BT1 organic compounds  
NT1 glycosides  
NT2 cardiac glycosides  
NT3 digitalis glycosides

NT4 digitoxin  
 NT4 digoxin  
 NT3 strophanthins  
 NT4 ouabain  
 NT2 saponins  
 NT2 strophanthin  
 NT2 uridine diphosphoglucose  
 NT1 saccharides  
 NT2 glycolipids  
 NT3 cerebrosides  
 NT3 gangliosides  
 NT2 glycoproteins  
 NT3 avidin  
 NT3 glucoproteins  
 NT4 lactoferrin  
 NT4 ovalbumin  
 NT3 luteinizing hormone  
 NT2 monosaccharides  
 NT3 erythritol  
 NT3 hexoses  
 NT4 fructose  
 NT4 galactose  
 NT4 glucose  
 NT4 hexosamines  
 NT5 glucosamine  
 NT4 mannose  
 NT4 sorbose  
 NT3 inositols  
 NT4 inositol  
 NT3 pentoses  
 NT4 arabinose  
 NT4 deoxyribose  
 NT4 ribose  
 NT4 ribulose  
 NT4 xylose  
 NT3 sorbitol  
 NT2 oligosaccharides  
 NT3 disaccharides  
 NT4 cellobiose  
 NT4 lactose  
 NT4 maltose  
 NT4 saccharose  
 NT3 raffinose  
 NT2 polysaccharides  
 NT3 agar  
 NT3 alginic acid  
 NT3 cellophane  
 NT3 cellulose  
 NT3 dextran  
 NT3 dextrin  
 NT3 glycogen  
 NT3 gum acacia  
 NT3 hemicellulose  
 NT4 xylans  
 NT3 inulin  
 NT3 lignin  
 NT3 lipopolysaccharides  
 NT3 mucopolysaccharides  
 NT4 chitin  
 NT4 chondroitin  
 NT4 heparin  
 NT4 hyaluronic acid  
 NT3 mucoproteins  
 NT4 haptoglobins  
 NT4 intrinsic factor  
 NT4 phytohemagglutinin  
 NT3 nitrocellulose  
 NT3 pectins  
 NT3 rayon  
 NT3 starch  
 NT3 viscose  
 NT3 xanthan gum  
 RT food  
 RT glycolysis  
 RT phosphoenolpyruvate

**CARBOLOY**

2000-04-12

\*BT1 cobalt alloys

\*BT1 tantalum alloys  
 \*BT1 titanium alloys  
 \*BT1 tungsten alloys

**CARBON**

\*BT1 nonmetals  
 NT1 activated carbon  
 NT1 carbon black  
 NT1 carbynes  
 NT1 diamonds  
 NT1 fullerenes  
 NT1 graphite  
 NT1 pyrolytic carbon  
 RT carbon fibers  
 RT carbon meters  
 RT decarburization

**CARBON 10**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 carbon isotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes

**CARBON 10 BEAMS**

INIS: 1988-11-16; ETDE: 1988-12-02

\*BT1 radioactive ion beams

**CARBON 11**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 carbon isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes

**CARBON 11 BEAMS**

INIS: 1985-05-15; ETDE: 1985-07-18

\*BT1 radioactive ion beams

\*BT1 secondary beams

**CARBON 11 TARGET**

INIS: 1986-04-02; ETDE: 1979-07-24

BT1 targets

**CARBON 12**

\*BT1 carbon isotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
 RT carbon 12 beams

**CARBON 12 BEAMS**

\*BT1 ion beams  
 RT carbon 12

**CARBON 12 DECAY RADIOISOTOPES**

1995-06-29

\*BT1 heavy ion decay radioisotopes

NT1 barium 114

RT carbon 12 emission decay

**CARBON 12 EMISSION DECAY**

INIS: 1995-06-29; ETDE: 1991-05-17

\*BT1 heavy ion emission decay

RT carbon 12 decay radioisotopes

**CARBON 12 REACTIONS**

\*BT1 heavy ion reactions

**CARBON 12 TARGET**

ETDE: 1976-07-09

BT1 targets

**CARBON 13**

\*BT1 carbon isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
 RT carbon 13 beams

**CARBON 13 BEAMS**

\*BT1 ion beams

RT carbon 13

**CARBON 13 REACTIONS**

\*BT1 heavy ion reactions

**CARBON 13 TARGET**

ETDE: 1976-07-09

BT1 targets

**CARBON 14**

UF radiocarbon dating

\*BT1 beta-minus decay radioisotopes

\*BT1 carbon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 years living radioisotopes

RT carbon 14 beams

RT carbon 14 compounds

RT carbon 14 reactions

RT isotope dating

**CARBON 14 BEAMS**

\*BT1 radioactive ion beams

RT carbon 14

**CARBON 14 COMPOUNDS**

BT1 carbon compounds

BT1 labelled compounds

RT carbon 14

RT labelling

**CARBON 14 DECAY****RADIOISOTOPES**

INIS: 1986-03-04; ETDE: 1988-10-12

\*BT1 heavy ion decay radioisotopes

NT1 radium 222

NT1 radium 223

NT1 radium 224

NT1 radium 226

RT carbon 14 emission decay

**CARBON 14 EMISSION DECAY**

INIS: 1986-03-04; ETDE: 1988-10-12

\*BT1 heavy ion emission decay

RT carbon 14 decay radioisotopes

**CARBON 14 REACTIONS**

\*BT1 heavy ion reactions

RT carbon 14

**CARBON 14 TARGET**

ETDE: 1976-07-09

BT1 targets

**CARBON 15**

\*BT1 beta-minus decay radioisotopes

\*BT1 carbon isotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 seconds living radioisotopes

**CARBON 16**

\*BT1 beta-minus decay radioisotopes

\*BT1 carbon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**CARBON 16 EMISSION DECAY**

INIS: 2000-04-12; ETDE: 1991-05-17

\*BT1 heavy ion emission decay

**CARBON 16 TARGET**

INIS: 1992-09-22; ETDE: 1977-05-07

BT1 targets

**CARBON 17**

\*BT1 beta-minus decay radioisotopes

\*BT1 carbon isotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**CARBON 18**

\*BT1 beta-minus decay radioisotopes

- \*BT1 carbon isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**CARBON 19**

- \*BT1 carbon isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei

**CARBON 20**

- \*BT1 carbon isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei

**CARBON 21**

2007-01-19

- \*BT1 carbon isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes

**CARBON 22**

INIS: 1979-02-21; ETDE: 1979-03-28

- \*BT1 carbon isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei

**CARBON 8**

- \*BT1 carbon isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei

**CARBON 9**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 carbon isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**CARBON ADDITIONS**

1996-11-13

- BT1 alloys
- NT1 alloy-co43cr20fe18ni13w3
- NT2 havar
- NT1 alloy-hs-31
- NT1 alloy-in-102
- NT1 alloy-n-10m
- NT1 alloy-n-9m
- NT1 alloy-n28t3
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-s-816
- NT1 alloy-v-36
- NT1 ascology
- NT1 astroloy
- NT1 austenite
- NT1 cast iron
- NT1 discaloy
- NT1 duriron
- NT1 ferrite
- NT1 martensite
- NT1 rene 41
- NT1 rene 95
- NT1 steels
- NT2 austenitic steels
- NT3 steel-cr15ni15motib
- NT3 steel-cr16ni13monbv
- NT3 steel-cr16ni15mo3nb
- NT3 steel-cr16ni16monb
- NT3 steel-cr16ni8mo2
- NT4 stainless steel-16-8-2
- NT3 steel-cr17ni12mo3
- NT4 stainless steel-316
- NT3 steel-cr17ni12mo3-l
- NT4 stainless steel-316l
- NT4 stainless steel-zcnd17-13
- NT3 steel-cr17ni12monb
- NT3 steel-cr17ni13
- NT3 steel-cr17ni13mo2ti
- NT3 steel-cr17ni13mo3ti

- NT3 steel-cr17ni7
- NT4 stainless steel-301
- NT3 steel-cr18ni10
- NT4 stainless steel-18-10
- NT3 steel-cr18ni10-l
- NT3 steel-cr18ni10ti
- NT4 stainless steel-321
- NT3 steel-cr18ni11
- NT4 steel-x6crni1811
- NT3 steel-cr18ni11nb
- NT4 stainless steel-347
- NT3 steel-cr18ni11nbco
- NT4 stainless steel-348
- NT3 steel-cr18ni12
- NT4 stainless steel-305
- NT3 steel-cr18ni12ti
- NT3 steel-cr18ni8
- NT4 stainless steel-18-8
- NT3 steel-cr18ni9
- NT4 stainless steel-302
- NT3 steel-cr18ni9ti
- NT3 steel-cr19ni10
- NT4 stainless steel-304
- NT3 steel-cr19ni10-l
- NT4 stainless steel-304l
- NT3 steel-cr20ni11
- NT4 stainless steel-308
- NT3 steel-cr20ni11-l
- NT4 stainless steel-308l
- NT3 steel-cr21mn9ni6
- NT4 stainless steel-21-6-9
- NT3 steel-cr23ni14
- NT4 stainless steel-309
- NT4 stainless steel-309s
- NT3 steel-cr23ni18
- NT3 steel-cr25ni20
- NT4 alloy-hk-40
- NT4 stainless steel-310
- NT3 steel-ni25cr20
- NT4 stainless steel-20-25
- NT3 steel-ni26cr15ti2movalb
- NT4 alloy-a-286
- NT2 carbon steels
- NT3 steel-astm-a105
- NT3 steel-astm-a106
- NT3 steel-astm-a212
- NT3 steel-astm-a285
- NT3 steel-astm-a516
- NT3 steel-astm-a533-b
- NT3 steel-in-787
- NT3 steel-sae-1045
- NT2 croloy
- NT3 steel-cr13
- NT4 stainless steel-410
- NT3 steel-cr16
- NT4 stainless steel-430
- NT3 steel-cr18ni10
- NT4 stainless steel-18-10
- NT3 steel-cr25mo
- NT4 steel-astm-a542
- NT3 steel-cr5mo
- NT2 ferritic steels
- NT3 steel-cr12moniv
- NT3 steel-cr13al
- NT4 stainless steel-405
- NT3 steel-cr16
- NT4 stainless steel-430
- NT3 steel-cr25
- NT4 stainless steel-446
- NT3 steel-cr9mo
- NT3 steel-cr9monbv
- NT2 high alloy steels
- NT3 stainless steels
- NT4 chromium-nickel steels
- NT5 alloy-d-9
- NT5 carpenter
- NT5 chromium-nickel-molybdenum steels
- NT6 alloy-m-813

- NT6 steel-cr11ni10mo2ti-l
- NT6 steel-cr15ni15motib
- NT6 steel-cr16ni13monbv
- NT6 steel-cr16ni15mo3nb
- NT6 steel-cr16ni16monb
- NT6 steel-cr16ni8mo2
- NT7 stainless steel-16-8-2
- NT6 steel-cr16ni9mo2
- NT6 steel-cr17ni12mo3
- NT7 stainless steel-316
- NT6 steel-cr17ni12mo3-l
- NT7 stainless steel-316l
- NT7 stainless steel-zcnd17-13
- NT6 steel-cr17ni12monb
- NT6 steel-cr17ni13mo2ti
- NT6 steel-cr17ni13mo3ti
- NT6 steel-ni26cr15ti2movalb
- NT7 alloy-a-286
- NT5 durco
- NT5 enduro
- NT5 stainless steel-17-7ph
- NT5 stainless steel-303
- NT5 stainless steel-329
- NT5 stainless steel-ph-15-7-mo
- NT5 steel-cr17ni13
- NT5 steel-cr17ni7
- NT6 stainless steel-301
- NT5 steel-cr18ni10
- NT6 stainless steel-18-10
- NT5 steel-cr18ni10-l
- NT5 steel-cr18ni10ti
- NT6 stainless steel-321
- NT5 steel-cr18ni11
- NT6 steel-x6crni1811
- NT5 steel-cr18ni11nb
- NT6 stainless steel-347
- NT5 steel-cr18ni11nbco
- NT6 stainless steel-348
- NT5 steel-cr18ni12
- NT6 stainless steel-305
- NT5 steel-cr18ni12ti
- NT5 steel-cr18ni8
- NT6 stainless steel-18-8
- NT5 steel-cr18ni9
- NT6 stainless steel-302
- NT5 steel-cr18ni9ti
- NT5 steel-cr19ni10
- NT6 stainless steel-304
- NT5 steel-cr19ni10-l
- NT6 stainless steel-304l
- NT5 steel-cr20ni11
- NT6 stainless steel-308
- NT5 steel-cr20ni11-l
- NT6 stainless steel-308l
- NT5 steel-cr23ni14
- NT6 stainless steel-309
- NT6 stainless steel-309s
- NT5 steel-cr23ni18
- NT5 steel-cr25ni20
- NT6 alloy-hk-40
- NT6 stainless steel-310
- NT5 steel-ni25cr20
- NT6 stainless steel-20-25
- NT5 steel-ni36cr12ti3al-l
- NT5 timken alloys
- NT4 chromium steels
- NT5 chromium-molybdenum steels
- NT6 chromium-nickel-molybdenum steels
- NT7 alloy-m-813
- NT7 steel-cr11ni10mo2ti-l
- NT7 steel-cr15ni15motib
- NT7 steel-cr16ni13monbv
- NT7 steel-cr16ni15mo3nb
- NT7 steel-cr16ni16monb
- NT7 steel-cr16ni8mo2
- NT8 stainless steel-16-8-2
- NT7 steel-cr16ni9mo2
- NT7 steel-cr17ni12mo3

NT8 stainless steel-316  
 NT7 steel-cr17ni12mo3-l  
 NT8 stainless steel-316l  
 NT8 stainless steel-zcnd17-13  
 NT7 steel-cr17ni12monb  
 NT7 steel-cr17ni13mo2ti  
 NT7 steel-cr17ni13mo3ti  
 NT7 steel-ni26cr15ti2movalb  
 NT8 alloy-a-286  
 NT5 magnet steel-ks  
 NT5 miduale  
 NT5 stainless steel-406  
 NT5 steel-cr10mo2  
 NT5 steel-cr12  
 NT6 stainless steel-403  
 NT5 steel-cr12moniv  
 NT5 steel-cr12mov  
 NT6 alloy-ht-9  
 NT5 steel-cr13  
 NT6 stainless steel-410  
 NT5 steel-cr13al  
 NT6 stainless steel-405  
 NT5 steel-cr16  
 NT6 stainless steel-430  
 NT5 steel-cr16ni  
 NT5 steel-cr17cu4ni4nb-l  
 NT6 stainless steel-17-4ph  
 NT5 steel-cr17mo  
 NT6 stainless steel-440  
 NT5 steel-cr17ni4mo3  
 NT5 steel-cr18  
 NT5 steel-cr25  
 NT6 stainless steel-446  
 NT5 steel-cr9mo  
 NT5 steel-cr9monbv  
 NT4 low carbon-high alloy steels  
 NT5 steel-cr11ni10mo2ti-l  
 NT5 steel-cr17cu4ni4nb-l  
 NT6 stainless steel-17-4ph  
 NT5 steel-cr17ni12mo3-l  
 NT6 stainless steel-316l  
 NT6 stainless steel-zcnd17-13  
 NT5 steel-cr18ni10-l  
 NT5 steel-cr19ni10-l  
 NT6 stainless steel-304l  
 NT5 steel-cr20ni11-l  
 NT6 stainless steel-308l  
 NT5 steel-ni36cr12ti3al-l  
 NT4 stainless steel-317  
 NT4 stainless steel-318  
 NT4 stainless steel-422  
 NT4 stainless steel-fv-548  
 NT4 stainless steel-jbk-75  
 NT4 stainless steel m-50  
 NT4 steel-cr21mn9ni6  
 NT5 stainless steel-21-6-9  
 NT4 sweetalloy  
 NT2 low alloy steels  
 NT3 steel-astm-a350  
 NT3 steel-astm-a387  
 NT3 steel-astm-a508  
 NT3 steel-astm-a533  
 NT3 steel-cr2mo  
 NT4 steel-astm-a542  
 NT3 steel-cr2moninb  
 NT3 steel-cr2mov  
 NT3 steel-cr2nimov  
 NT3 steel-cr5mo  
 NT3 steel-cralnimo  
 NT3 steel-crmo  
 NT3 steel-crmov  
 NT3 steel-crni  
 NT3 steel-mncumo  
 NT4 steel-astm-a537  
 NT3 steel-mnmo  
 NT4 steel-astm-a302  
 NT3 steel-mnnimo  
 NT4 steel-astm-a533-b  
 NT3 steel-mnnimov

NT3 steel-ni3cr  
 NT3 steel-ni3crmo  
 NT4 steel-astm-a543  
 NT3 steel-ni3crmov  
 NT3 steel-ni4crw  
 NT3 steel-nicr  
 NT3 steel-nicrmo  
 NT3 steel-nimocr  
 NT2 manganese steels  
 NT2 martensitic steels  
 NT3 maraging steels  
 NT3 steel-cr10mo2  
 NT3 steel-cr12  
 NT4 stainless steel-403  
 NT3 steel-cr12mov  
 NT4 alloy-ht-9  
 NT3 steel-cr13  
 NT4 stainless steel-410  
 NT3 steel-cr16ni  
 NT3 steel-cr17cu4ni4nb-l  
 NT4 stainless steel-17-4ph  
 NT3 steel-cr17mo  
 NT4 stainless steel-440  
 NT3 steel-cr18  
 NT2 nickel steels  
 NT3 sweetalloy  
 NT2 steel-astm-a572  
 RT carbides

### CARBON BLACK

\*BT1 carbon

### CARBON BURNING

INIS: 1978-08-30; ETDE: 1978-10-19

*Astrophysical processes only.*

BT1 star burning  
 RT nucleosynthesis  
 RT star evolution  
 RT star models  
 RT stars

### CARBON-CARBON LYASES

INIS: 1986-12-03; ETDE: 1981-01-30

*Code number 4.1.*

\*BT1 lyases  
 NT1 aldehyde-lyases  
 NT1 aldolases  
 NT1 carboxy-lyases  
 NT2 carboxylase  
 NT2 decarboxylases  
 NT2 ribulose diphosphate carboxylase

### CARBON COMPLEXES

BT1 complexes

### CARBON COMPOUNDS

NT1 carbides  
 NT2 aluminium carbides  
 NT2 americium carbides  
 NT2 barium carbides  
 NT2 beryllium carbides  
 NT2 boron carbides  
 NT2 cadmium carbides  
 NT2 calcium carbides  
 NT2 cerium carbides  
 NT2 cesium carbides  
 NT2 chromium carbides  
 NT2 cobalt carbides  
 NT2 copper carbides  
 NT2 dysprosium carbides  
 NT2 erbium carbides  
 NT2 europium carbides  
 NT2 gadolinium carbides  
 NT2 gallium carbides  
 NT2 germanium carbides  
 NT2 hafnium carbides  
 NT2 holmium carbides  
 NT2 indium carbides  
 NT2 iridium carbides  
 NT2 iron carbides  
 NT3 cementite

NT3 ni-hard  
 NT2 lanthanum carbides  
 NT2 lead carbides  
 NT2 lithium carbides  
 NT2 lutetium carbides  
 NT2 magnesium carbides  
 NT2 manganese carbides  
 NT2 molybdenum carbides  
 NT2 neodymium carbides  
 NT2 neptunium carbides  
 NT2 nickel carbides  
 NT2 niobium carbides  
 NT2 nitrogen carbides  
 NT2 osmium carbides  
 NT2 palladium carbides  
 NT2 platinum carbides  
 NT2 plutonium carbides  
 NT2 potassium carbides  
 NT2 praseodymium carbides  
 NT2 protactinium carbides  
 NT2 rhenium carbides  
 NT2 rhodium carbides  
 NT2 rubidium carbides  
 NT2 ruthenium carbides  
 NT2 samarium carbides  
 NT2 scandium carbides  
 NT2 selenium carbides  
 NT2 silicon carbides  
 NT2 sodium carbides  
 NT2 strontium carbides  
 NT2 tantalum carbides  
 NT2 technetium carbides  
 NT2 terbium carbides  
 NT2 thallium carbides  
 NT2 thorium carbides  
 NT2 thulium carbides  
 NT2 tin carbides  
 NT2 titanium carbides  
 NT2 tungsten carbides  
 NT2 uranium carbides  
 NT2 vanadium carbides  
 NT2 ytterbium carbides  
 NT2 yttrium carbides  
 NT2 zinc carbides  
 NT2 zirconium carbides  
 NT1 carbon 14 compounds  
 NT1 carbon fluorides  
 NT1 carbon nitrides  
 NT1 carbon oxides  
 NT2 carbon dioxide  
 NT2 carbon monoxide  
 NT1 carbon oxysulfide  
 NT1 carbon sulfides  
 NT1 carbonates  
 NT2 americium carbonates  
 NT2 ammonium carbonates  
 NT3 auc  
 NT2 barium carbonates  
 NT2 beryllium carbonates  
 NT2 bismuth carbonates  
 NT2 cadmium carbonates  
 NT2 calcium carbonates  
 NT2 cerium carbonates  
 NT2 cesium carbonates  
 NT2 cobalt carbonates  
 NT2 copper carbonates  
 NT2 curium carbonates  
 NT2 erbium carbonates  
 NT2 europium carbonates  
 NT2 gadolinium carbonates  
 NT2 holmium carbonates  
 NT2 iron carbonates  
 NT2 lanthanum carbonates  
 NT2 lead carbonates  
 NT2 lithium carbonates  
 NT2 lutetium carbonates  
 NT2 magnesium carbonates  
 NT2 manganese carbonates  
 NT2 molybdenum carbonates

NT2 neodymium carbonates  
 NT2 neptunium carbonates  
 NT2 nickel carbonates  
 NT2 plutonium carbonates  
 NT2 polycarbonates  
 NT2 potassium carbonates  
 NT2 praseodymium carbonates  
 NT2 radium carbonates  
 NT2 rhenium carbonates  
 NT2 rubidium carbonates  
 NT2 samarium carbonates  
 NT2 scandium carbonates  
 NT2 silver carbonates  
 NT2 sodium carbonates  
 NT2 strontium carbonates  
 NT2 terbium carbonates  
 NT2 thallium carbonates  
 NT2 thorium carbonates  
 NT2 uranium carbonates  
 NT2 uranyl carbonates  
 NT2 ytterbium carbonates  
 NT2 yttrium carbonates  
 NT2 zinc carbonates  
 NT2 zirconium carbonates

NT1 carbonic acid  
 NT1 carbonitrides  
 NT1 carbonium compounds  
 NT1 carboranes  
 NT1 oxycarbides  
 RT soot

### CARBON CYCLE

INIS: 1982-07-22; ETDE: 1979-03-05

RT air-water interactions  
 RT carbon dioxide fixation  
 RT carbon sinks  
 RT carbon sources  
 RT deforestation  
 RT ecological concentration  
 RT ecosystems  
 RT metabolism  
 RT mineral cycling  
 RT photosynthesis  
 RT ribulose diphosphate carboxylase

### CARBON DIOXIDE

\*BT1 carbon oxides  
 RT carbon dioxide fixation  
 RT carbon sequestration  
 RT greenhouse gases  
 RT inert atmosphere  
 RT landfill gas  
 RT phosphoenolpyruvate

### carbon dioxide acceptor process

2000-04-12

Consolidation coal company process for producing high btu gas by catalytic methanation of synthesis gas. Heat for the reaction of coal and steam is supplied by reacting the carbon dioxide formed with calcined dolomite.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification  
 USE sng processes

### CARBON DIOXIDE COOLED REACTORS

\*BT1 gas cooled reactors  
 NT1 berkeley reactor  
 NT1 bohunice a-1 reactor  
 NT1 bradwell reactor  
 NT1 bugey-1 reactor  
 NT1 calder hall a-1 reactor  
 NT1 calder hall a-2 reactor  
 NT1 calder hall b-3 reactor  
 NT1 calder hall b-4 reactor  
 NT1 cesar reactor  
 NT1 chapelcross-1 reactor

NT1 chapelcross-2 reactor  
 NT1 chapelcross-3 reactor  
 NT1 chapelcross-4 reactor  
 NT1 chinon-1 reactor  
 NT1 chinon-2 reactor  
 NT1 chinon-3 reactor  
 NT1 connah quay-b reactor  
 NT1 dungeness-a reactor  
 NT1 dungeness-b reactor  
 NT1 el-2 reactor  
 NT1 el-4 reactor  
 NT1 g-2 reactor  
 NT1 g-3 reactor  
 NT1 hartlepool reactor  
 NT1 hector reactor  
 NT1 hero reactor  
 NT1 heysham-a reactor  
 NT1 heysham-b reactor  
 NT1 hinkley point-a reactor  
 NT1 hinkley point-b reactor  
 NT1 hunterston-a reactor  
 NT1 hunterston-b reactor  
 NT1 latina reactor  
 NT1 lucens reactor  
 NT1 niederaichbach reactor  
 NT1 oldbury-a reactor  
 NT1 oldbury-b reactor  
 NT1 saint laurent-1 reactor  
 NT1 saint laurent-2 reactor  
 NT1 sizewell-a reactor  
 NT1 tokai-mura reactor  
 NT1 torness reactor  
 NT1 trawsfynydd reactor  
 NT1 vandellos reactor  
 NT1 wagr reactor  
 NT1 wylfa reactor  
 RT agr type reactors  
 RT gcr type reactors  
 RT magnox type reactors

### CARBON DIOXIDE FIXATION

1982-02-10

UF fixation (carbon dioxide)  
 RT air  
 RT c4 species  
 RT calvin cycle species  
 RT carbon cycle  
 RT carbon dioxide  
 RT carbon sources  
 RT metabolism  
 RT photosynthesis  
 RT plant growth  
 RT ribulose diphosphate carboxylase

### CARBON DIOXIDE INJECTION

INIS: 1992-01-15; ETDE: 1978-08-07

UF co2 flooding  
 \*BT1 miscible-phase displacement  
 RT enhanced recovery  
 RT oil wells  
 RT well stimulation

### CARBON DIOXIDE LASERS

\*BT1 gas lasers  
 RT antares facility  
 RT helios facility

### CARBON FIBERS

INIS: 1983-03-15; ETDE: 1975-11-11

UF graphite fibers  
 BT1 fibers  
 RT carbon  
 RT graphite

### CARBON FLUORIDES

BT1 carbon compounds  
 \*BT1 fluorides

### CARBON-GROUP TRANSFERASES

INIS: 1986-12-03; ETDE: 1991-08-27

\*BT1 transferases

NT1 methyl transferases

### CARBON IONS

\*BT1 ions

### CARBON ISOTOPES

1999-07-16

BT1 isotopes  
 NT1 carbon 10  
 NT1 carbon 11  
 NT1 carbon 12  
 NT1 carbon 13  
 NT1 carbon 14  
 NT1 carbon 15  
 NT1 carbon 16  
 NT1 carbon 17  
 NT1 carbon 18  
 NT1 carbon 19  
 NT1 carbon 20  
 NT1 carbon 21  
 NT1 carbon 22  
 NT1 carbon 8  
 NT1 carbon 9

### CARBON METERS

INIS: 1978-01-16; ETDE: 1977-08-09

\*BT1 meters  
 RT carbon  
 RT chemical analysis

### CARBON MONOXIDE

UF cosorb process  
 \*BT1 carbon oxides  
 RT bosch process  
 RT carbonyls  
 RT carboxyhemoglobin

### CARBON MONOXIDE LASERS

\*BT1 gas lasers

### CARBON NITRIDES

BT1 carbon compounds  
 \*BT1 nitrides

### carbon-nitrogen-oxygen cycle

INIS: 1978-09-28; ETDE: 1978-10-19

USE cno cycle

### carbon oxide sulfide

INIS: 2000-04-12; ETDE: 1975-09-11

USE carbon oxysulfide

### CARBON OXIDES

BT1 carbon compounds  
 \*BT1 oxides  
 NT1 carbon dioxide  
 NT1 carbon monoxide  
 RT oxycarbides

### carbon oxychloride

USE phosgene

### CARBON-OXYGEN LYASES

INIS: 1986-12-03; ETDE: 1981-01-30

Code number 4.2.

UF polysaccharide-lyases  
 \*BT1 lyases  
 NT1 hyaluronidase  
 NT1 hydro-lyases  
 NT2 carbonic anhydrase

### CARBON OXYLSULFIDE

INIS: 2000-04-12; ETDE: 1975-09-11

UF carbon oxide sulfide  
 UF carbonyl sulfide  
 BT1 carbon compounds  
 BT1 sulfur compounds  
 RT carbonic acid derivatives

### CARBON SEQUESTRATION

2004-01-14

Removal of carbon and its compounds from the environment and deposition, for example,

into geological formations, to keep them away from the atmosphere.

UF sequestration (carbon oxides)

\*BT1 air pollution control

BT1 separation processes

RT carbon dioxide

RT carbon sinks

RT greenhouse gases

RT oxyfuel combustion process

### CARBON SINKS

INIS: 1992-08-28; ETDE: 1981-08-04

BT1 sinks

RT carbon cycle

RT carbon sequestration

RT carbon sources

RT mineral cycling

### CARBON SOURCES

INIS: 1992-08-28; ETDE: 1986-06-12

RT biosphere

RT carbon cycle

RT carbon dioxide fixation

RT carbon sinks

RT pollution sources

### CARBON STARS

\*BT1 main sequence stars

### CARBON STEELS

1996-11-13

Steels with carbon as the only alloying element.

UF steel-08g2sfb

UF steel-astm-a350 (gr 1)

UF steel-astm-a350 (gr 2)

UF steel-astm-a416

UF steel-sae-1006

\*BT1 steels

NT1 steel-astm-a105

NT1 steel-astm-a106

NT1 steel-astm-a212

NT1 steel-astm-a285

NT1 steel-astm-a516

NT1 steel-astm-a533-b

NT1 steel-in-787

NT1 steel-sae-1045

### CARBON SULFIDES

UF sulfur carbides

BT1 carbon compounds

\*BT1 sulfides

### CARBON TETRACHLORIDE

1985-07-22

(Prior to August 1985

TETRACHLOROMETHANE was used.)

UF tetrachloromethane

\*BT1 chlorinated aliphatic hydrocarbons

RT methane

RT organic solvents

### CARBON TETRAFLUORIDE

INIS: 1985-07-22; ETDE: 1976-08-04

(Prior to August 1985

TETRAFLUOROMETHANE was used.)

UF tetrafluoromethane

\*BT1 fluorinated aliphatic hydrocarbons

RT methane

### CARBONACEOUS MATERIALS

1982-07-22

Materials rich in carbon.

BT1 materials

NT1 bituminous materials

NT2 kerogen

NT2 oil sands

NT2 oil shales

NT3 black shales

NT1 coal

NT2 black coal

NT3 anthracite

NT3 bituminous coal

NT2 brown coal

NT3 lignite

NT2 coal fines

NT2 sapropelic coal

NT3 boghead coal

NT4 torbanite

NT3 cannel coal

NT2 subbituminous coal

RT organic matter

### CARBONATE MINERALS

INIS: 1996-11-13; ETDE: 1982-05-12

UF andersonite

UF bayleyite

UF cordylite

UF liebigite

UF rutherfordite

UF schroëckingerite

UF sharpite

BT1 minerals

NT1 ankerite

NT1 aragonite

NT1 calcite

NT1 dawsonite

NT1 diderichite

NT1 dolomite

NT1 nahcolite

NT1 shortite

NT1 siderite

NT1 trona

RT calcium carbonates

RT cerium carbonates

RT iron carbonates

RT lanthanum carbonates

RT magnesium carbonates

RT manganese carbonates

RT shales

RT sodium carbonates

RT uranium carbonates

### CARBONATE ROCKS

INIS: 1985-12-10; ETDE: 1976-08-04

Rocks composed principally of carbonates, usually more than 50% by weight. See also

CARBONATE MINERALS.

\*BT1 sedimentary rocks

NT1 limestone

NT2 travertine

RT reservoir rock

### CARBONATES

1997-06-19

SF ferroan

BT1 carbon compounds

BT1 oxygen compounds

NT1 americium carbonates

NT1 ammonium carbonates

NT2 auc

NT1 barium carbonates

NT1 beryllium carbonates

NT1 bismuth carbonates

NT1 cadmium carbonates

NT1 calcium carbonates

NT1 cerium carbonates

NT1 cesium carbonates

NT1 cobalt carbonates

NT1 copper carbonates

NT1 curium carbonates

NT1 erbium carbonates

NT1 europium carbonates

NT1 gadolinium carbonates

NT1 holmium carbonates

NT1 iron carbonates

NT1 lanthanum carbonates

NT1 lead carbonates

NT1 lithium carbonates

NT1 lutetium carbonates

NT1 magnesium carbonates

NT1 manganese carbonates

NT1 molybdenum carbonates

NT1 neodymium carbonates

NT1 neptunium carbonates

NT1 nickel carbonates

NT1 plutonium carbonates

NT1 polycarbonates

NT1 potassium carbonates

NT1 praseodymium carbonates

NT1 radium carbonates

NT1 rhenium carbonates

NT1 rubidium carbonates

NT1 samarium carbonates

NT1 scandium carbonates

NT1 silver carbonates

NT1 sodium carbonates

NT1 strontium carbonates

NT1 terbium carbonates

NT1 thallium carbonates

NT1 thorium carbonates

NT1 uranium carbonates

NT1 uranyl carbonates

NT1 ytterbium carbonates

NT1 yttrium carbonates

NT1 zinc carbonates

NT1 zirconium carbonates

RT acid carbonates

RT acid neutralizing capacity

### CARBONIC ACID

INIS: 1982-04-14; ETDE: 1977-05-07

BT1 carbon compounds

\*BT1 inorganic acids

BT1 oxygen compounds

### CARBONIC ACID DERIVATIVES

1996-10-23

UF guanethidine

BT1 organic compounds

NT1 carbamates

NT2 dedtc

NT2 urethane

NT1 carbazides

NT1 carbazones

NT2 dithizone

NT1 cyanamides

NT1 cyanates

NT1 dpca

NT1 guanidines

NT2 mibg

NT1 isocyanates

NT1 isonitriles

NT1 isothiocyanates

NT1 mercaptoethylguanidine

NT1 methyl nitrosoarea

NT1 phosgene

NT1 semicarbazides

NT1 semicarbazones

NT1 thiocyanates

NT2 ammonium thiocyanates

NT1 thioureas

NT2 beta-aminoethyl isothiurea

NT2 thiourea

NT1 urea

RT carbon oxysulfide

### CARBONIC ACID ESTERS

INIS: 2000-04-12; ETDE: 1975-12-16

UF propylene carbonate

\*BT1 esters

### CARBONIC ANHYDRASE

\*BT1 hydro-lyases

### CARBONIFEROUS PERIOD

INIS: 1992-05-22; ETDE: 1977-10-20

(Prior to April 1990 this material was indexed to MISSISSIPPIAN PERIOD or PENNSYLVANIAN PERIOD.)

UF mississippian period

UF pennsylvanian period

\*BT1 paleozoic era

**CARBONITRIDES**

1982-01-14

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 carbon compounds  
BT1 nitrogen compounds  
RT carbides  
RT nitrides

**CARBONIUM COMPOUNDS**

INIS: 2000-04-12; ETDE: 1983-01-21

BT1 carbon compounds  
RT cations

**CARBONIZATION**

\*BT1 decomposition  
NT1 coking  
NT1 electrocarbonization  
RT clean coke process  
RT coalcon process  
RT coke ovens  
RT consol stirred bed process  
RT decarbonization  
RT graphitization

**carbonyl chloride**

USE phosgene

**CARBONYL RADICALS**

BT1 radicals  
RT carbonyls

**carbonyl sulfide**

INIS: 2000-04-12; ETDE: 1976-11-01

USE carbon oxysulfide

**CARBONYLATION**

INIS: 1981-09-17; ETDE: 1978-07-05

UF hydroformylation  
BT1 chemical reactions

**CARBONYLS**

*Only for compounds of metals with carbonyl radicals.*

RT carbon monoxide  
RT carbonyl radicals  
RT metals

**CARBORANES**

INIS: 1978-05-19; ETDE: 1977-01-28

BT1 carbon compounds  
\*BT1 organic boron compounds  
RT boranes

**CARBOWAX**

\*BT1 polyethylene glycols  
\*BT1 waxes

**carbox process**

INIS: 2000-04-12; ETDE: 1979-11-07

*Dry reprocessing of U and Th carbide fuel. (Prior to September 1994, this was a valid ETDE descriptor.)*

USE reprocessing

**CARBOXY-LYASES**

INIS: 1993-08-03; ETDE: 1981-01-30

Code number 4.1.1.

\*BT1 carbon-carbon lyases  
NT1 carboxylase  
NT1 decarboxylases  
NT1 ribulose diphosphate carboxylase

**CARBOXYHEMOGLOBIN**

INIS: 1999-04-16; ETDE: 1976-07-07

RT carbon monoxide  
RT erythrocytes  
RT heme  
RT hemoglobin  
RT respiration

**CARBOXYLASE**

\*BT1 carboxy-lyases

**CARBOXYLATION**

BT1 chemical reactions  
RT decarboxylation  
RT lyases

**CARBOXYLESTERASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.1.1.

\*BT1 esterases  
NT1 cholinesterase  
NT1 lipases

**CARBOXYLIC ACID ESTERS**

1996-07-23

*(Prior to March 1997 TARTARIC ACID ESTERS was a valid ETDE descriptor.)*

UF tartaric acid esters

\*BT1 esters  
NT1 acetic acid esters  
NT2 methyl acetate  
NT2 polyvinyl acetate  
NT2 vinyl acetate  
NT1 acetoacetic acid esters  
NT1 acrylic acid esters  
NT1 bromosulphthalein  
NT1 carbamic acid esters  
NT1 citric acid esters  
NT1 glucoheptonate  
NT1 malathion  
NT1 methacrylic acid esters  
NT1 oxalic acid esters  
NT1 phenolphthalein  
NT1 retinoic acid  
RT carboxylic acids

**CARBOXYLIC ACID SALTS**

NT1 acetates  
NT1 acetoacetates  
NT1 acrylates  
NT1 carbamates  
NT2 dedtc  
NT2 urethane  
NT1 citrates  
NT1 formates  
NT1 lactates  
NT1 methacrylates  
NT1 oxalates  
NT1 phthalates  
NT1 stearates  
NT1 tartrates  
NT2 rochelle salt  
RT carboxylic acids  
RT esters

**CARBOXYLIC ACIDS**

1996-10-23

*(ACID HALIDES and TRICARBALLYLIC ACID have been valid ETDE descriptors.)*

UF acid halides

UF aldehydo acids

UF alkanolic acids

UF alkenolic acids

UF aromatic acids

UF fatty acids

UF tricarballylic acid

\*BT1 organic acids

NT1 amino acids  
NT2 alanines  
NT3 alanine-alpha  
NT4 alanine-l  
NT3 alanine-beta  
NT2 aminobutyric acid  
NT2 aminolevulinic acid  
NT2 anthranilic acid  
NT2 arginine  
NT2 asparagine  
NT2 aspartic acid

NT2 betaine  
NT2 carnitine  
NT2 cda  
NT2 citrulline  
NT2 creatine  
NT2 cysteine  
NT2 cystine  
NT2 dcta  
NT2 diiodotyrosine  
NT2 dopa  
NT2 dtpa  
NT2 eddha  
NT2 edta  
NT2 ethionine  
NT2 folic acid  
NT2 glutamic acid  
NT3 pyridoxylideneglutamate  
NT2 glutamine  
NT2 glycine  
NT2 glycyglycine  
NT2 hedta  
NT2 heida  
NT2 hippuric acid  
NT2 histidine  
NT2 homocysteine  
NT2 hydroxyproline  
NT2 hydroxytryptophan  
NT2 kynurenine  
NT2 leucine  
NT2 lysine  
NT2 methionine  
NT2 methyl red  
NT2 methyl tyrosine  
NT2 mimosine  
NT2 mpg  
NT2 nta  
NT2 ornithine  
NT2 paba  
NT2 pantothenic acid  
NT2 penicillamine  
NT2 phenylalanine  
NT2 phosphocreatine  
NT2 proline  
NT2 sarcosine  
NT2 serine  
NT2 tetaha  
NT2 threonine  
NT2 thyronine  
NT2 thyroxine  
NT2 tryptophan  
NT2 tyrosine  
NT2 valine  
NT1 bile acids  
NT2 cholic acid  
NT1 carminic acid  
NT1 dicarboxylic acids  
NT2 adipic acid  
NT2 fumaric acid  
NT2 glutaric acid  
NT2 itaconic acid  
NT2 maleic acid  
NT2 malonic acid  
NT2 oxalic acid  
NT2 phthalic acid  
NT2 sebamic acid  
NT2 succinic acid  
NT2 terephthalic acid  
NT1 egta  
NT1 glyoxylic acid  
NT1 heterocyclic acids  
NT2 bilirubin  
NT2 biotin  
NT2 histidine  
NT2 hydroxyproline  
NT2 lysergic acid  
NT2 nicotinic acid  
NT2 orotic acid  
NT2 picolinic acid  
NT2 porphyrins

NT3 chlorins  
 NT3 chlorophyll  
 NT3 hematoporphyrins  
 NT3 heme  
 NT3 hemoglobin  
   NT4 methemoglobin  
 NT3 hemosiderin  
 NT3 myoglobin  
 NT3 protoporphyrins  
 NT2 proline  
 NT2 rhodamines  
 NT2 thioctic acid  
 NT2 tryptophan  
 NT2 urocanic acid  
 NT1 hydroxy acids  
 NT2 acetylsalicylic acid  
 NT2 benzilic acid  
 NT2 carnitine  
 NT2 citric acid  
 NT2 diiodotyrosine  
 NT2 dopa  
 NT2 eddha  
 NT2 eosin  
 NT2 fluorescein  
   NT3 erythrosine  
 NT2 galacturonic acid  
 NT2 gallic acid  
 NT2 gibberellic acid  
 NT2 gluconic acid  
 NT2 glucuronic acid  
 NT2 glyceric acid  
 NT2 glycolic acid  
 NT2 hedta  
 NT2 heida  
 NT2 hydroxyproline  
 NT2 hydroxytryptophan  
 NT2 lactic acid  
 NT2 malic acid  
 NT2 mandelic acid  
 NT2 methyl tyrosine  
 NT2 mevalonic acid  
 NT2 pantothenic acid  
 NT2 rose bengal  
 NT2 salicylic acid  
 NT2 serine  
 NT2 shikimic acid  
 NT2 tartaric acid  
 NT2 threonine  
 NT2 thyronine  
 NT2 tyrosine  
 NT1 keto acids  
   NT2 acetoacetic acid  
   NT2 kynurenine  
   NT2 levulinic acid  
   NT2 pyruvic acid  
 NT1 mellitic acid  
 NT1 monocarboxylic acids  
   NT2 abscisic acid  
   NT2 acetic acid  
   NT2 acrylic acid  
   NT2 arachidonic acid  
   NT2 benzoic acid  
   NT2 butyric acid  
   NT2 chlorambucil  
   NT2 cinnamic acid  
   NT2 crotonic acid  
   NT2 decanoic acid  
   NT2 dodecanoic acid  
   NT2 eicosanoic acid  
   NT2 formic acid  
   NT2 glycolic acid  
   NT2 heptanoic acid  
   NT2 hexadecanoic acid  
   NT2 hexanoic acid  
   NT2 isobutyric acid  
   NT2 isovaleric acid  
   NT2 linoleic acid  
   NT2 linolenic acid  
   NT2 methacrylic acid

NT2 nicotinic acid  
 NT2 nonanoic acid  
 NT2 octadecanoic acid  
 NT2 octanoic acid  
 NT2 oleic acid  
 NT2 pethidine  
 NT2 pivalic acid  
 NT2 propionic acid  
 NT2 sorbic acid  
 NT2 tetradecanoic acid  
 NT2 uronic acids  
 NT2 valeric acid  
 NT1 tannic acid  
 RT alginic acid  
 RT carboxylic acid esters  
 RT carboxylic acid salts  
 RT ketenes  
 RT metabolites  
 RT nitriles

**carboxypeptidase**

1985-04-23

(Prior to April 1985 this was a valid descriptor.)

USE carboxypeptidases

**CARBOXYPEPTIDASES**

INIS: 1985-04-23; ETDE: 1981-01-30

(Prior to April 1985 the singular form was used.)

UF carboxypeptidase

\*BT1 peptide hydrolases

**carburan**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE bitumens

USE uranium minerals

**CARBURETORS**

INIS: 2000-04-12; ETDE: 1978-10-25

BT1 fuel systems

RT fuel-air ratio

RT internal combustion engines

RT spark ignition engines

**CARBURETTED WATER GAS**

2000-04-12

*Water gas enriched with gasified hydrocarbon oil.*

\*BT1 intermediate btu gas

RT water gas

**CARBURIZATION**

\*BT1 surface hardening

RT decarburization

**CARBYNES**

INIS: 1983-03-15; ETDE: 1982-02-11

*Triply bonded allotropes of carbon.*

\*BT1 carbon

BT1 radicals

RT reaction intermediates

**CARCINOEMBRYONIC ANTIGEN**

INIS: 1982-09-21; ETDE: 1980-10-07

UF cea (antigen)

BT1 antigens

RT embryos

RT neoplasms

**CARCINOGEN SCREENING**

INIS: 2000-04-12; ETDE: 1981-01-09

UF screening (carcinogen)

RT bioassay

RT carcinogenesis

RT carcinogens

RT mutagen screening

RT testing

**CARCINOGENESIS**

BT1 pathogenesis

NT1 leukemogenesis  
 RT carcinogen screening  
 RT carcinogens  
 RT dna adducts  
 RT neoplasms  
 RT oncogenes  
 RT oncogenic transformations  
 RT oncogenic viruses

**CARCINOGENS**

UF cycasin

RT acetylaminofluorenes

RT carcinogen screening

RT carcinogenesis

RT dimethylbenzanthracene

RT dna adducts

RT environmental exposure

RT mutagens

RT neoplasms

RT nitrosamines

RT occupational exposure

RT oncogenic transformations

RT phorbol esters

RT polycyclic aromatic hydrocarbons

RT radiation equivalence

RT radiomimetic drugs

RT teratogens

RT tumor promoters

**CARCINOMAS**

UF adenocarcinomas

UF bronchogenic carcinoma

UF pulmonary cancer

UF uterine cervix carcinoma

\*BT1 neoplasms

NT1 adenomas

NT1 angiomas

NT1 epitheliomas

NT2 melanomas

NT1 hepatomas

RT epithelium

**card punches**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

SEE data processing

**CARDIAC GLYCOSIDES**

INIS: 2000-03-27; ETDE: 1981-04-20

UF cardiotonic glycosides

\*BT1 cardiotonics

\*BT1 glycosides

NT1 digitalis glycosides

NT2 digitoxin

NT2 digoxin

NT1 strophanthins

NT2 ouabain

**cardiac output**

USE blood circulation

**CARDIAC PACEMAKERS**

1995-11-15

UF pacemakers

RT artificial organs

RT electric batteries

RT heart

RT mechanical heart

RT prostheses

RT radioisotope batteries

**CARDIOGRAPHY**

BT1 diagnostic techniques

NT1 radiocardiography

RT blood circulation

RT blood pressure

RT electrocardiograms

RT heart



**CARDIOLIPIN**

\*BT1 phospholipids

**cardiopulmonary resuscitation**

INIS: 2000-04-12; ETDE: 1983-04-07

(Prior to September 1994, this was a valid ETDE descriptor.)

USE first aid

**cardiotonic glycosides**

USE cardiac glycosides

**CARDIOTONICS**UF *strophanthin*

\*BT1 cardiovascular agents

NT1 adrenaline

NT1 cardiac glycosides

NT2 digitalis glycosides

NT3 digitoxin

NT3 digoxin

NT2 strophanthins

NT3 ouabain

NT1 dopamine

NT1 noradrenaline

RT heart

RT steroids

**CARDIOVASCULAR AGENTS**

INIS: 1984-05-24; ETDE: 1981-04-20

BT1 drugs

NT1 antihypertensive agents

NT2 reserpine

NT1 cardiotonics

NT2 adrenaline

NT2 cardiac glycosides

NT3 digitalis glycosides

NT4 digitoxin

NT4 digoxin

NT3 strophanthins

NT4 ouabain

NT2 dopamine

NT2 noradrenaline

NT1 vasoconstrictors

NT2 angiotensin

NT2 ephedrine

NT1 vasodilators

NT2 dipyridamole

NT2 theobromine

NT2 theophylline

RT blood vessels

RT cardiovascular diseases

RT cardiovascular system

RT heart

RT vasoconstriction

RT vasodilation

**CARDIOVASCULAR DISEASES**UF *heart disease*

BT1 diseases

NT1 arteriosclerosis

NT1 hypertension

NT1 ischemia

NT1 myocardial infarction

NT1 nephrosclerosis

NT1 telangiectasis

NT1 thrombosis

RT cardiovascular agents

RT cardiovascular system

RT emboli

RT heart failure

RT vascular diseases

**CARDIOVASCULAR SYSTEM**

NT1 blood vessels

NT2 arteries

NT3 aorta

NT3 carotid arteries

NT3 cerebral arteries

NT3 coronaries

NT2 capillaries

NT2 veins

NT3 portal system

NT1 heart

NT2 myocardium

NT2 pericardium

RT blood circulation

RT blood pressure

RT cardiovascular agents

RT cardiovascular diseases

RT lymphatic system

RT organs

**CARGO**

INIS: 1992-06-30; ETDE: 1979-11-23

UF *freight*

RT materials handling

RT transport

**CARIBBEAN SEA**

\*BT1 atlantic ocean

NT1 gulf of mexico

NT2 galveston bay

NT2 san antonio bay

RT west indies

**caribou**

USE deer

**CARIES**

INIS: 1975-09-16; ETDE: 1975-10-28

BT1 pathological changes

RT dentistry

RT teeth

**carl still process**

INIS: 2000-04-12; ETDE: 1979-01-30

*Process in which ammonia water adsorbs hydrogen sulfide. The acid gas is fed to a sulfuric acid production plant.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**carlson method**

ETDE: 1975-07-29

USE discrete ordinate method

**carlton power reactor**

USE kewaunee reactor

**CARMINIC ACID**

\*BT1 anthraquinones

\*BT1 carboxylic acids

\*BT1 hydroxy compounds

RT dyes

**CARNALLITE**

\*BT1 halide minerals

RT magnesium chlorides

RT potassium chlorides

**CARNATIONS**

\*BT1 magnoliopsida

**CARNITINE**UF *novain*UF *vitamin b-t*

\*BT1 amino acids

\*BT1 hydroxy acids

\*BT1 vitamin b group

RT betaine

**CARNOT CYCLE**

BT1 thermodynamic cycles

RT thermodynamics

**CARNOTITE**

\*BT1 uranium minerals

RT uranium vanadates

**carolina power light robinson-2 reactor**

1993-11-04

USE robinson-2 reactor

**carolinas virginia tube reactor**

1993-11-04

USE cvtr reactor

**carotenes**

2003-11-05

USE carotenoids

**CAROTENOIDS**UF *carotenes*

\*BT1 hydrocarbons

BT1 pigments

\*BT1 terpenes

RT vitamin a

RT vitamins

**CAROTID ARTERIES**

\*BT1 arteries

RT head

RT neck

**CARPENTER**

2000-04-12

\*BT1 chromium-nickel steels

**carpetbag event**

1994-10-14

*A test made during OPERATION EMERY. (Prior to September 1994, this was a valid ETDE descriptor.)*

USE nuclear explosions

USE underground explosions

**carpocapsa pomonella**

INIS: 1975-12-19; ETDE: 1979-05-03

USE codling moth

**CARPOOLING**

INIS: 2000-04-12; ETDE: 1976-04-19

SF *ridesharing*

NT1 vanpooling

RT automobiles

RT energy conservation

RT land transport

RT roads

RT transportation systems

**CARRIER DENSITY**UF *density (carrier)*

RT charge carriers

RT current density

**CARRIER-FREE ISOTOPES**

1999-07-16

BT1 isotopes

RT labelled compounds

RT labelling

RT radioisotopes

RT trace amounts

**CARRIER LIFETIME**

BT1 lifetime

RT charge carriers

**CARRIER MOBILITY**

BT1 mobility

RT charge carriers

RT electric conductivity

RT electron transfer

**CARRIERS***Not for CHARGE CARRIERS.*

RT liposomes

RT radioisotopes

RT radionuclide kinetics

RT stable isotopes

**carrizo mountains**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE mountains

**CARROTS**

\*BT1 magnoliopsida

\*BT1 vegetables

**cars**

ETDE: 2002-06-13

USE automobiles

**cars (spectroscopy)**

INIS: 1986-04-04; ETDE: 2002-06-13

*Coherent Anti-stokes Raman Spectroscopy.*

USE raman spectroscopy

**CARTELS**

INIS: 1996-08-05; ETDE: 1977-09-19

*Voluntary, often international, combinations of independent private enterprises supplying like commodities or services that agree to limit their competitive activities.*

RT competition

RT embargoes

RT market

RT monopolies

RT opec

RT trade

**CARTESIAN COORDINATES**

BT1 coordinates

**CARTILAGE**

UF disks (intervertebral)

UF intervertebral disks

\*BT1 connective tissue

RT bone joints

**casaccia rana reactor**

USE rana reactor

**casaccia rospo reactor**

1986-10-29

USE rospo reactor

**cascade (extraction)**

USE extraction columns

**CASCADE IMPACTORS**

RT aerosol monitoring

RT air pollution monitors

RT air samplers

**CASCADE MOUNTAINS**

INIS: 1997-06-17; ETDE: 1982-09-10

BT1 mountains

NT1 mt baker

NT1 mt hood

NT1 mt st helens

RT california

RT oregon

RT sierra nevada colorado

RT washington

**CASCADE REACTORS**

INIS: 1999-04-19; ETDE: 1984-05-23

*A conceptual inertial confinement fusion reactor which uses a replenished layer of granules for wall protection, heat exchange, and fuel production.*

\*BT1 laser fusion reactors

RT icf devices

**CASCADE SHOWERS**

BT1 showers

RT cascade theory

RT cosmic showers

**CASCADE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1981-07-18

UF graded band gap solar cells

\*BT1 solar cells

RT graded band gaps

**CASCADE THEORY**

RT cascade showers

RT gamma cascades

**cascaes (nuclear)**

USE nuclear cascades

**CASE LAW**

INIS: 1976-12-08; ETDE: 1977-06-24

BT1 laws

**CASE METHOD**

BT1 calculation methods

RT transport theory

**CASEIN**

\*BT1 organic phosphorus compounds

\*BT1 proteins

**CASIMIR EFFECT**

INIS: 1986-05-27; ETDE: 1986-11-18

*Attractive force between two uncharged, conducting, parallel plates due to vacuum fluctuations of the electromagnetic field, i.e. quantum electromagnetic zero-point energy.*

UF casimir force

RT electric fields

RT vacuum polarization

**casimir force**

INIS: 1986-05-27; ETDE: 2002-06-13

USE casimir effect

**CASIMIR OPERATORS**

BT1 mathematical operators

RT symmetry groups

**casings**

2000-04-12

USE coverings

**casings (well)**

INIS: 1992-05-26; ETDE: 1981-01-27

USE well casings

**CASKS**

UF flasks

UF fuel casks

BT1 containers

NT1 spent fuel casks

**CASPIAN SEA**

INIS: 1976-01-28; ETDE: 1975-09-11

\*BT1 lakes

\*BT1 seas

RT azerbaijan

RT iran

RT kazakhstan

RT russian federation

RT turkmenistan

**CASSAVA**

UF manioc

\*BT1 magnoliopsida

RT food

**CASSEGRAINIAN****CONCENTRATORS**

INIS: 2000-04-12; ETDE: 1981-03-17

*Solar concentrators consisting of a paraboloidal primary reflector and a confocal hyperboloidal secondary reflector.*

\*BT1 solar concentrators

RT parabolic reflectors

**CAST IRON**

\*BT1 carbon additions

\*BT1 iron base alloys

\*BT1 silicon alloys

RT iron carbides

RT pearlite

**CAST METHOD**

INIS: 2000-04-12; ETDE: 1980-02-11

*Capillary action shaping technique for ribbon crystal growth.*

UF capillary action shaping technique

BT1 crystal growth methods

RT crystal growth

RT efg method

RT sheets

**CASTAGNOLI FORMULA**

RT angular distribution

**caste (insects)**

USE insects

USE occupations

USE populations

**castillejo-dalitz-dyson poles**

USE cdd poles

**CASTING**

BT1 fabrication

NT1 electroslag casting

NT1 slip casting

NT1 vacuum casting

RT casting molds

RT castings

RT crucibles

RT dies

RT foundries

RT materials working

RT melting

RT molding

**CASTING MOLDS**

UF molds (casting)

RT casting

RT castings

RT dies

RT molding

**CASTINGS**

1977-01-25

UF metal castings

RT casting

RT casting molds

RT degassing

RT inclusions

RT machine parts

RT solidification

**CASTLE PROJECT**

UF project castle

\*BT1 nuclear explosions

RT atmospheric explosions

RT bikini

RT nuclear weapons

RT surface explosions

RT thermonuclear explosions

**CASTOR**

UF ricinum communis

\*BT1 euphorbia

\*BT1 medicinal plants

RT castor oil

**CASTOR OIL**

\*BT1 vegetable oils

RT castor

**CASTOR TOKAMAK**

INIS: 1987-05-26; ETDE: 1987-06-09

*Institute of Plasma Physics, Czech Academy of Sciences, Prague.*

\*BT1 tokamak devices

**CASTRATION**

\*BT1 surgery

RT androgens

RT estrogens

RT gonads  
 RT reproductive disorders  
 RT therapy

**cat-ox process**

2000-04-12

*Catalytic oxidation method developed by Monsanto Enviro-Chem Systems, Inc., for removing sulfur dioxide from flue gas of fossil-fuel generating stations. System consists basically of following phases: fly ash collection, conversion of sulfur dioxide to sulfur trioxide, heat recovery, removal of hydrogen sulfate, acid mist elimination, and acid storage and loading.*  
 (Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**CAT SCANNING**

INIS: 1978-01-16; ETDE: 1978-03-03

*Computerized Axial Tomography scanning.*  
 UF computer axial tomography scanning  
 UF ct scanning  
 \*BT1 computerized tomography  
 RT biomedical radiography  
 RT image processing

**CATABOLISM**

BT1 metabolism  
 RT decomposition  
 RT glycolysis  
 RT proteolysis

**catcarb carbon dioxide removal process**

2000-04-12

USE desulfurization

**catcarb process**

2000-04-12

*Process for gas purification by removal of acid gases.*  
 (Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**cataclysmic binary stars**

INIS: 1984-05-24; ETDE: 2002-06-13

USE eruptive variable stars

**cataclysmic variable stars**

INIS: 1984-05-24; ETDE: 1984-06-29

*Variable close binary systems, one star of which provides the other with accretion material.*

USE eruptive variable stars

**CATAGENESIS**

INIS: 2000-04-12; ETDE: 1977-08-09

*Changes in a sedimentary rock caused by pressure-temperature conditions quite different from those of deposition; as opposed to diagenesis in which burial depth is slight and temperature close to that of deposition temperature.*

RT diagenesis  
 RT origin  
 RT sediments

**CATALASE**

\*BT1 peroxidases

**CATALOGS**

INIS: 1994-07-01; ETDE: 1978-01-23

(Until June 1994 this concept was indexed to INDEXES.)

BT1 document types  
 RT directories

**CATALYSIS**

NT1 heterogeneous catalysis

NT1 homogeneous catalysis  
 NT1 photocatalysis  
 RT catalysts  
 RT catalytic converters  
 RT catalytic cracking  
 RT catalytic effects  
 RT chemical reaction kinetics  
 RT chemical reactions  
 RT coenzymes  
 RT electrocatalysts  
 RT enzyme activity  
 RT enzymes  
 RT inhibition  
 RT selective catalytic reduction  
 RT ziegler catalyst

**CATALYST SUPPORTS**

INIS: 1992-01-16; ETDE: 1978-06-14

UF supports (catalyst)  
 RT catalysts  
 RT substrates  
 RT supports

**CATALYSTS**

NT1 electrocatalysts  
 NT1 ziegler catalyst  
 RT additives  
 RT catalysis  
 RT catalyst supports  
 RT catalytic combustors  
 RT catalytic converters  
 RT photocatalysis  
 RT promoters

**CATALYTIC COMBUSTORS**

INIS: 2000-04-12; ETDE: 1978-04-06

*Combustors which contain catalysts to increase efficiency and/or to reduce the emission of harmful gaseous pollutants.*

BT1 combustors  
 RT air pollution control  
 RT catalysts  
 RT pollution control equipment

**CATALYTIC CONVERTERS**

1991-12-18

*Air pollution control devices using a catalytic reaction to change gaseous effluents to harmless gases.*

\*BT1 pollution control equipment  
 RT air pollution control  
 RT automobiles  
 RT catalysis  
 RT catalysts  
 RT exhaust gases

**CATALYTIC CRACKING**

INIS: 1998-01-28; ETDE: 1976-12-15

\*BT1 cracking  
 RT catalysis  
 RT hydrocracking  
 RT thermal cracking

**CATALYTIC EFFECTS**

1992-01-16

RT catalysis  
 RT electrocatalysts

**CATALYTIC HYDROSOLVATION PROCESS**

INIS: 2000-04-12; ETDE: 1978-08-07

*Coal is impregnated with catalysts (zinc chloride, stannous chloride, and ammonium molybdate), slurried with oil, and hydrogenated under hydrogen pressures up to 4000 psi at 400 to 500 degrees C.*

\*BT1 coal liquefaction  
 RT desulfurization

**catalytic-ifp ammonia scrubbing process**

INIS: 2000-04-12; ETDE: 1977-04-12

USE desulfurization

**CATALYTIC REFORMING**

INIS: 2000-04-12; ETDE: 1979-01-30

*Catalytic aromatization of the paraffins and naphthenes of a naphtha to a liquid.*

\*BT1 reformer processes  
 RT refining

**catalytic rich gas process**

INIS: 2000-04-12; ETDE: 1976-01-07

USE crg processes

**cataphoresis**

USE electrophoresis

**catapleite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE silicate minerals

**CATARACTS**

UF eye cataracts  
 \*BT1 sense organs diseases  
 RT crystalline lens

**CATAWBA-1 REACTOR**

*Duke Energy Co., Rock Hill, South Carolina, USA.*

\*BT1 pwr type reactors

**CATAWBA-2 REACTOR**

*Duke Energy Co., Rock Hill, South Carolina, USA.*

\*BT1 pwr type reactors

**catchment basins**

2001-07-26

USE watersheds

**catechol**

USE pyrocatechol

**CATECHOLAMINES**

\*BT1 amines  
 \*BT1 polyphenols  
 RT pyrocatechol

**cathepsin**

2000-04-12

(From January 1981 to August 1989, this was a valid ETDE descriptor and material from this period is so indexed.)

USE cathepsins

**CATHEPSINS**

ETDE: 1981-01-30

Code number 3.4.22.1.

UF cathepsin  
 \*BT1 sh-proteinases

**CATHODE FOLLOWERS**

BT1 electronic circuits  
 RT pulse amplifiers

**CATHODE RAY TUBE DIGITIZERS**

UF pepr devices  
 \*BT1 digitizers

**CATHODE RAY TUBES**

BT1 electron tubes  
 RT display devices  
 RT electron scanning  
 RT image tubes  
 RT oscillographs

**CATHODE SPUTTERING**

BT1 sputtering  
 RT physical vapor deposition  
 RT vapor plating

**CATHODES**

- BT1 electrodes
- NT1 hollow cathodes
- NT1 photocathodes
- RT cathodoluminescence
- RT electron tubes
- RT thermionic emitters

**CATHODIC PROTECTION**

INIS: 1999-10-08; ETDE: 1977-03-08  
(Until October 1999 this concept was indexed by CORROSION PROTECTION.)

- BT1 corrosion protection
- RT electrochemical corrosion
- RT pitting corrosion

**CATHODOLUMINESCENCE**

*Cathode-ray-excited emission.*

- \*BT1 luminescence
- RT cathodes
- RT emission spectroscopy

**cation exchange capacity**

INIS: 2000-04-12; ETDE: 1979-03-27

- USE cations
- USE ion exchange

**CATIONS**

- UF cation exchange capacity
- UF positive ions
- \*BT1 ions
- NT1 hydrogen ions 1 plus
- NT1 hydrogen ions 2 plus
- NT1 hydrogen ions 3 plus
- RT carbonium compounds
- RT chemical state
- RT electrolysis
- RT ion beams
- RT ion exchange materials

**CATS**

- \*BT1 mammals

**CATTAILS**

INIS: 1991-12-16; ETDE: 1980-11-25

- \*BT1 liliopsida
- RT aquatic ecosystems
- RT biomass
- RT marshes

**CATTENOM-1 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

- \*BT1 pwr type reactors

**CATTENOM-2 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

- \*BT1 pwr type reactors

**CATTENOM-3 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

- \*BT1 pwr type reactors

**CATTENOM-4 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

- \*BT1 pwr type reactors

**CATTLE**

- UF bovine
- \*BT1 domestic animals
- \*BT1 ruminants
- NT1 calves
- NT1 cows
- RT forage
- RT gramineae
- RT meat
- RT pastures

**CAUCASUS**

INIS: 2000-04-12; ETDE: 1978-06-14

- RT armenia
- RT azerbaijan
- RT republic of georgia
- RT russian federation

**CAUCHY PROBLEM**

1999-04-13

- RT boundary conditions
- RT boundary-value problems
- RT partial differential equations

**cauliflower**

- USE brassica

**caulking**

INIS: 2000-04-12; ETDE: 1977-11-09

(Prior to February 1997 this was a valid ETDE descriptor.)

- SEE air infiltration
- SEE seals
- SEE weatherization

**CAUSALITY**

- RT quantum mechanics
- RT schwinger source theory

**CAUSTIC FLOODING**

INIS: 2000-04-12; ETDE: 1978-10-23

*Injection of alkaline solution to enhance recovery of residual petroleum.*

- UF alkaline flooding
- \*BT1 waterflooding
- RT enhanced recovery

**CAVES**

- BT1 cavities
- RT geologic fissures
- RT openings
- RT rock caverns
- RT salt caverns

**CAVING**

INIS: 1992-09-01; ETDE: 1979-06-06

- RT strata control
- RT strata movement
- RT underground mining

**CAVING MINING**

INIS: 2000-04-12; ETDE: 1979-01-30

- \*BT1 underground mining

**CAVITATION**

- UF column separation (fluid mechanics)
- RT fluid flow
- RT ultrasonic waves

**CAVITIES**

(From November 1976 till March 1997 UNDERGROUND SPACE was a valid ETDE descriptor.)

- SF underground space
- NT1 boreholes
- NT1 caves
- NT1 craters
- NT1 rock caverns
- NT1 salt caverns
- NT1 sinuses
- RT chimneys
- RT crystal defects
- RT excavation
- RT mine shafts
- RT nuclear explosions
- RT openings
- RT underground explosions
- RT underground storage
- RT voids
- RT water influx

**cavity ionization chambers**

- USE bragg gray chambers

**CAVITY RECEIVERS**

INIS: 2000-04-12; ETDE: 1979-09-26

- BT1 solar receivers

**CAVITY RESONATORS**

- UF resonance cavities

- \*BT1 resonators

- NT1 superconducting cavity resonators
- RT cyclic accelerators
- RT microwave equipment
- RT rf systems
- RT tuning

**cba (brookhaven colliding beam accelerator)**

INIS: 2000-04-12; ETDE: 1983-04-28

- USE isabelle storage rings

**cba process**

INIS: 2000-04-12; ETDE: 1977-08-09

- USE desulfurization

**ccba**

- USE coupled channel born approximation

**ccd**

INIS: 1979-09-18; ETDE: 1978-04-27

- USE charge-coupled devices

**ccms**

INIS: 2000-04-12; ETDE: 1978-02-14

*Committee on the challenges of modern society.*

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE international organizations

**cd-4mcu**

INIS: 2000-04-12; ETDE: 1979-09-06

- USE steel-cd-4mcu

**CDC COMPUTERS**

- BT1 computers
- RT supercomputers

**CDD POLES**

- UF castillejo-dalitz-dyson poles
- RT dispersion relations
- RT partial waves

**cdf**

INIS: 1992-01-14; ETDE: 1985-12-13

(Prior to January 1992, this was a valid ETDE descriptor.)

- USE fermilab collider detector

**CDFR REACTOR**

INIS: 1979-09-18; ETDE: 1979-10-23

- UF commercial demonstration fast reactor

- \*BT1 lmfbr type reactors
- \*BT1 power reactors
- \*BT1 sodium cooled reactors

**CDTA**

*Cyclohexylenedinitrilotetraacetic acid.*

- UF cyclohexylenedinitrilotetraacetic acid
- \*BT1 amino acids
- BT1 chelating agents

**CDTE SEMICONDUCTOR****DETECTORS**

- UF cadmium telluride detectors
- \*BT1 semiconductor detectors

**CDX-U SPHEROMAK**

INIS: 1999-07-26; ETDE: 1999-09-02

*Current Drive Experiment Upgrade, Princeton Plasma Physics Laboratory, USA.*

- \*BT1 spheromak devices

**CE ENTRAINED FUEL PROCESS**

INIS: 2000-04-12; ETDE: 1977-05-07

Process using a low pressure, air-blown entrained gasifier with two points of coal feed that can be modified to operate under pressure and with oxygen blowing.

UF combustion engineering gasification process

\*BT1 coal gasification

RT entrainment

**ce lummus cffc process**

INIS: 2000-04-12; ETDE: 1981-10-24

A plug flow, expanded-bed, catalytic, hydroliquefaction process.

(Prior to February 1995, this was a valid ETDE descriptor.)

USE coal liquefaction

**CE STANDARD REACTOR**

1975-10-29

USA.

(Prior to 1975, PWR/80 TYPE REACTORS was used.)

UF combustion engineering standard reactor

UF pwr/80 type reactors

\*BT1 pwr type reactors

RT palo verde-1 reactor

RT palo verde-2 reactor

RT palo verde-3 reactor

RT palo verde-4 reactor

RT palo verde-5 reactor

**CEA**

UF commissariat a l'energie atomique

\*BT1 french organizations

NT1 cea bruyeres-le-chatel

NT1 cea cadarache

NT1 cea fontenay-aux-roses

NT1 cea grenoble

NT1 cea la hague

NT1 cea marcoule

NT1 cea pierrelatte

NT1 cea saclay

RT france

**cea (accelerator)**

INIS: 1984-06-21; ETDE: 2002-06-13

USE cambridge electron accelerator

**cea (antigen)**

INIS: 1982-09-21; ETDE: 1980-10-07

USE carcinoembryonic antigen

**CEA-ADL DUAL ALKALI PROCESS**

INIS: 2000-04-12; ETDE: 1978-06-14

Flue gas is passed through an absorption section where sulfur dioxide, chlorides, and sulfur trioxide are removed via contact with a solution of sodium salts. The sodium/sulfur salts are reacted with hydrated lime in a special 2-stage reactor to regenerate the sodium. Calcium/sulfur solids produced are separated from the liquor containing regenerated sodium compounds and disposed of. The regenerated liquor is recirculated to the absorption section.

UF limestone dual alkali desulfurization process

\*BT1 desulfurization

RT waste processing

**CEA BRUYERES-LE-CHATEL**

INIS: 1989-12-08; ETDE: 1990-01-03

\*BT1 cea

**CEA CADARACHE**

UF cadarache (cea)

\*BT1 cea

**CEA FONTENAY-AUX-ROSES**

UF fontenay-aux-roses (cea)

\*BT1 cea

**CEA GRENOBLE**

\*BT1 cea

**CEA LA HAGUE**

\*BT1 cea

\*BT1 fuel reprocessing plants

**CEA MARCOULE**

UF marcoule (cea)

\*BT1 cea

**CEA PIERRELATTE**

UF pierrelatte (cea)

\*BT1 cea

**CEA SACLAY**

UF saclay (cea)

\*BT1 cea

**CEBAF ACCELERATOR**

INIS: 1987-05-26; ETDE: 1987-06-09

Continuous Electron Beam Accelerator Facility.

UF jefferson laboratory

UF thomas jefferson national accelerator facility

\*BT1 linear accelerators

**CEDAR COMPUTERS**

INIS: 2000-04-12; ETDE: 1987-04-08

RT array processors

RT parallel processing

RT supercomputers

RT vector processing

**CEDARS**

INIS: 1992-01-15; ETDE: 1985-12-11

UF junipers

UF juniperus

\*BT1 conifers

\*BT1 trees

**cef-or reactor**

USE or-cef reactor

**CEFR REACTOR**

INIS: 2000-02-22; ETDE: 2000-10-04

Beijing, China.

UF china experimental fast reactor

\*BT1 experimental reactors

\*BT1 fast reactors

**CEILING FANS**

INIS: 2000-04-12; ETDE: 1982-03-10

RT air conditioning

RT blowers

RT cooling systems

RT ventilation

**CEILINGS**

INIS: 2000-04-12; ETDE: 1975-09-11

RT buildings

**CELESTIN REACTOR**

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 tritium production reactors

**CELL CONSTITUENTS**

1997-06-19

UF organelles

UF subcellular organelles

NT1 cell membranes

NT2 myelin

NT1 cell nuclei

NT2 nucleoli

NT1 cell wall

NT1 chloroplasts

NT1 cytoplasm

NT1 endoplasmic reticulum

NT2 sarcoplasmic reticulum

NT1 golgi complexes

NT1 microtubules

NT1 mitochondria

NT1 phycobilisomes

NT1 plasmids

NT1 ribosomes

NT2 microsomes

RT animal cells

RT cytological techniques

RT cytology

RT liposomes

RT phagocytosis

RT plant cells

RT post-translation modification

RT subcellular distribution

RT tissue extracts

RT ultracentrifugation

RT ultrastructural changes

**CELL CULTURES**

UF cultures (cells)

NT1 clone cells

NT1 synchronous cultures

RT animal cells

RT biotechnology

RT cho cells

RT cloning

RT colony formation

RT culture media

RT hybridomas

RT in vitro

RT methanotrophic bacteria

RT microorganisms

RT mutagen screening

RT plant cells

RT tissue cultures

RT tumor cells

**CELL CYCLE**

RT cell division

RT concanavalin a

RT dna replication

RT replicons

RT synchronization

RT synchronous cultures

**CELL DIFFERENTIATION**

RT apoptosis

RT blood formation

RT gene amplification

RT genetic engineering

RT growth factors

RT ontogenesis

**CELL DIVISION**

NT1 meiosis

NT1 mitosis

RT cell cycle

RT cell proliferation

RT gametogenesis

RT healing

RT in vivo

RT mitogens

RT non-disjunction

**CELL FLOW SYSTEMS**

INIS: 1977-09-06; ETDE: 1976-08-04

Fluid flow devices in which a stream of individual cells from biological cell samples flow through a chamber enabling the screening of cytological material.

UF flow cytometers

RT animal cells

RT chromosome sorting

RT cytological techniques

RT cytology

RT plant cells

**cell growth (animal)**

USE animal cells  
USE growth

**cell growth (plant)**

USE growth  
USE plant cells

**CELL KILLING**

RT apoptosis  
RT death

**CELL MEMBRANES**

1999-04-21

SF *membrane theory*  
BT1 cell constituents  
BT1 membranes  
NT1 myelin  
RT cell wall  
RT golgi complexes  
RT membrane pores  
RT radioreceptor assay  
RT subcellular distribution

**CELL NUCLEI**

UF *nuclei (cells)*  
BT1 cell constituents  
NT1 nucleoli  
RT chromatin  
RT chromosomes  
RT human chromosomes  
RT nucleic acids  
RT subcellular distribution

**CELL PROLIFERATION**

UF *proliferation (cell)*  
RT cell division  
RT cloning  
RT concanavalin a  
RT growth factors  
RT in vivo  
RT phytohemagglutinin  
RT replicons

**cell recycle**

INIS: 2000-04-12; ETDE: 1978-10-23

*Technique of recycling yeasts or other microorganisms back into biochemical reaction vessel.*

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE anaerobic digestion  
SEE fermentation

**CELL TRANSFORMATIONS**

INIS: 1999-04-21; ETDE: 1985-11-19

NT1 oncogenic transformations  
RT viral diseases

**CELL WALL**

UF *walls (cell)*  
BT1 cell constituents  
RT cell membranes  
RT plant cells

**cellars**

INIS: 1992-08-25; ETDE: 1984-08-06

USE basements

**CELLOBIOSE**

\*BT1 disaccharides

**CELLOPHANE**

\*BT1 polysaccharides  
RT cellulose

**CELLOSOLVES**

UF *glycol monoalkyl ethers*  
\*BT1 ethers  
\*BT1 glycols  
\*BT1 organic solvents

**cells (animal)**

USE animal cells

**cells (bacterial)**

USE bacteria

**cells (electrolytic)**

USE electrolytic cells

**cells (immobilized)**

INIS: 2000-04-12; ETDE: 1980-09-22

SEE immobilized cells

**cells (plant)**

USE plant cells

**cells (reactor)**

USE reactor cells

**CELLULOSE**

INIS: 1996-11-13; ETDE: 1981-01-12

Code number 3.2.1.4.

UF *cellulases*

UF *cellulolytic activity*

\*BT1 o-glycosyl hydrolases

RT enzymatic hydrolysis

**celluloses**

INIS: 2000-04-12; ETDE: 1978-03-03

Code number 3.2.1.4.

USE cellulase

**CELLULOID**

RT camphor  
RT cellulose esters  
RT nitrocellulose

**cellulolytic activity**

INIS: 1985-07-23; ETDE: 1979-05-25

*Measure of efficiency for cellulose biodegradation.*

(Prior to February 1997 this was a valid ETDE descriptor.)

USE cellulase

USE enzymatic hydrolysis

**CELLULOSE**

UF *ethocel*

\*BT1 polysaccharides

RT bagasse

RT biomass

RT cellophane

RT cellulose esters

RT delignification

RT hemicellulose

RT polyacetals

RT rayon

**CELLULOSE ESTERS**

1999-04-27

\*BT1 esters

NT1 nitrocellulose

RT celluloid

RT cellulose

**CELSIUS STORAGE RING**

INIS: 1986-07-09; ETDE: 1989-08-16

BT1 storage rings

RT uppsala synchrocyclotron

**celtic sea**

INIS: 2000-04-12; ETDE: 1977-05-07

USE irish sea

**CEMENT INDUSTRY**

INIS: 1994-09-13; ETDE: 1977-07-23

BT1 industry

RT cements

RT portland cement

**cemented carbides**

ETDE: 2002-06-13

USE cermets

**CEMENTING**

INIS: 2000-06-27; ETDE: 1981-08-21

RT bonding

RT cements

RT compacting

RT grouting

RT plugging

RT seals

RT well casings

RT well completion

**CEMENTITE**

1995-11-22

*A compound, Fe<sub>3</sub>C, occurring as lamellae in steel.*

\*BT1 intermetallic compounds

\*BT1 iron carbides

RT martensite

RT pearlite

RT steels

**CEMENTS**

\*BT1 building materials

NT1 gypsum cements

NT1 portland cement

RT cement industry

RT cementing

RT concretes

RT grouting

RT mortars

RT plugging agents

**CEN**

INIS: 2004-07-16; ETDE: 2002-10-02

UF *european committee for standardization*

BT1 international organizations

RT recommendations

RT standardization

RT standardized terminology

RT standards document

**CENNA**

INIS: 1989-02-24; ETDE: 1989-03-20

*Convention on Early Notification of a Nuclear Accident.*

UF *convention on early notification of nuclear accident*

UF *early notification convention*

\*BT1 international agreements

RT iaea

RT reactor accidents

**CENOZOIC ERA**

INIS: 1992-04-14; ETDE: 1977-10-19

BT1 geologic ages

NT1 quaternary period

NT2 pleistocene epoch

NT1 tertiary period

NT2 eocene epoch

NT2 miocene epoch

NT2 pliocene epoch

**CENTAURO-TYPE EVENTS**

INIS: 1999-03-23; ETDE: 1979-08-07

*Cosmic-ray events of high hadron multiplicity without associated neutral pions.*

RT cosmic radiation

RT cosmic showers

RT extensive air showers

RT fireball model

RT hadrons

RT multiple production

RT nuclear matter

RT particle interactions

RT quarks

**CENTER-OF-MASS SYSTEM**

*UF* centre-of-mass system  
*RT* coordinates  
*RT* laboratory system  
*RT* longitudinal momentum  
*RT* lorentz transformations  
*RT* mechanics  
*RT* scattering  
*RT* transverse momentum

**CENTRAL AFRICAN REPUBLIC**

*BT1* africa  
*BT1* developing countries

**CENTRAL AMERICA**

1996-07-08

(Prior to July 1996 PANAMA CANAL ZONE was a valid ETDE descriptor.)

*UF* panama canal zone  
*BT1* latin america  
*NT1* belize  
*NT1* costa rica  
*NT1* el salvador  
*NT1* guatemala  
*NT1* honduras  
*NT1* nicaragua  
*NT1* panama

**CENTRAL HEATING PLANTS**

1999-02-12

*RT* district cooling  
*RT* district heating  
*RT* modular integrated utility systems  
*RT* solar district heating  
*RT* space heating  
*RT* steam generation plants

**central intelligence agency**

*INIS*: 2000-04-12; *ETDE*: 1980-08-25

*USE* us cia

**CENTRAL NERVOUS SYSTEM**

*BT1* nervous system  
*NT1* brain  
   *NT2* cerebellum  
   *NT2* cerebrum  
     *NT3* cerebral cortex  
   *NT2* hippocampus  
   *NT2* hypothalamus  
   *NT2* olfactory bulbs  
   *NT2* thalamus  
*NT1* spinal cord  
*RT* behavior  
*RT* central nervous system agents  
*RT* central nervous system depressants  
*RT* cerebrospinal fluid  
*RT* meninges  
*RT* rabies  
*RT* radiation syndrome  
*RT* receptors

**CENTRAL NERVOUS SYSTEM****AGENTS**

*INIS*: 1984-05-24; *ETDE*: 1981-04-20

*BT1* drugs  
*NT1* analectics  
   *NT2* amphetamines  
   *NT3* benzedrine  
   *NT2* caffeine  
*NT1* central nervous system depressants  
   *NT2* analgesics  
     *NT3* acetylsalicylic acid  
     *NT3* antipyrine  
     *NT3* codeine  
     *NT3* opium  
       *NT4* morphine  
       *NT5* thebaine  
     *NT3* pethidine  
   *NT2* anesthetics  
     *NT3* barbiturates

*NT4* nebutal  
   *NT4* phenobarbital  
   *NT3* cocaine  
   *NT3* procaine  
*NT2* anticonvulsants  
   *NT3* phenobarbital  
*NT2* antipyretics  
   *NT3* acetylsalicylic acid  
   *NT3* antipyrine  
   *NT3* colchicine  
   *NT3* quinine  
*NT2* hypnotics and sedatives  
   *NT3* barbiturates  
     *NT4* nebutal  
     *NT4* phenobarbital  
   *NT3* chlorpromazine  
   *NT3* codeine  
   *NT3* reserpine  
*NT2* narcotics  
   *NT3* heroin  
   *NT3* methadone hydrochloride  
   *NT3* opium  
     *NT4* morphine  
     *NT5* thebaine  
   *NT3* pethidine  
*NT1* psychotropic drugs  
   *NT2* antidepressants  
     *NT3* cocaine  
     *NT3* imipramine  
   *NT2* hallucinogens  
     *NT3* bufotenine  
   *NT2* tranquilizers  
     *NT3* chlorpromazine  
     *NT3* reserpine  
*RT* behavior  
*RT* central nervous system  
*RT* mental disorders

**CENTRAL NERVOUS SYSTEM****DEPRESSANTS**

*INIS*: 1984-05-24; *ETDE*: 1981-04-20

*UF* cns depressants  
*UF* depressants (central nervous system)  
 \**BT1* central nervous system agents

*NT1* analgesics  
   *NT2* acetylsalicylic acid  
   *NT2* antipyrine  
   *NT2* codeine  
   *NT2* opium  
     *NT3* morphine  
     *NT4* thebaine  
   *NT2* pethidine  
*NT1* anesthetics  
   *NT2* barbiturates  
     *NT3* nebutal  
     *NT3* phenobarbital  
   *NT2* cocaine  
   *NT2* procaine  
*NT1* anticonvulsants  
   *NT2* phenobarbital  
*NT1* antipyretics  
   *NT2* acetylsalicylic acid  
   *NT2* antipyrine  
   *NT2* colchicine  
   *NT2* quinine  
*NT1* hypnotics and sedatives  
   *NT2* barbiturates  
     *NT3* nebutal  
     *NT3* phenobarbital  
   *NT2* chlorpromazine  
   *NT2* codeine  
   *NT2* reserpine  
*NT1* narcotics  
   *NT2* heroin  
   *NT2* methadone hydrochloride  
   *NT2* opium  
     *NT3* morphine  
     *NT4* thebaine  
   *NT2* pethidine

*RT* anesthesia  
*RT* behavior  
*RT* central nervous system  
*RT* endorphins  
*RT* sleep

**central nervous system stimulants**

*INIS*: 1984-05-24; *ETDE*: 1981-04-20

*USE* analectics

**central nuclear de zorita-1**

*USE* zorita-1 reactor

**central nuclear en atucha reactor**

1993-11-04

*USE* atucha reactor

**CENTRAL POTENTIAL**

*BT1* potentials  
*RT* coulomb field

**central receiver power plants**

*INIS*: 2000-04-12; *ETDE*: 1984-08-20

*USE* tower focus power plants

**CENTRAL RECEIVER TEST****FACILITY**

*INIS*: 2000-04-12; *ETDE*: 1980-11-25

*DOE's test facility at Sandia Laboratories.*

*UF* solar thermal test facility

*BT1* test facilities  
*RT* central receivers  
*RT* heliostats  
*RT* tower focus collectors  
*RT* tower focus power plants

**CENTRAL RECEIVERS**

*INIS*: 1993-01-28; *ETDE*: 1976-05-17

*UF* solar central receivers

*BT1* solar receivers  
*RT* advanced components test facility  
*RT* boilers  
*RT* central receiver test facility  
*RT* solar collectors  
*RT* tower focus power plants

**central region**

*INIS*: 2000-04-12; *ETDE*: 1978-07-06

(Prior to June 1982, this was a valid ETDE descriptor.)

*USE* usa

**CENTRALLY PLANNED****ECONOMIES**

*INIS*: 1997-08-20; *ETDE*: 1979-12-10

*Includes the economies of the countries in the list below.*

*RT* albania  
*RT* bulgaria  
*RT* china  
*RT* economic development  
*RT* economic policy  
*RT* mongolian peoples republic  
*RT* national government  
*RT* nationalization  
*RT* north korea  
*RT* romania  
*RT* viet nam

**centre-of-mass system**

*USE* center-of-mass system

**centrifugal contactors**

*INIS*: 2000-04-12; *ETDE*: 1981-10-24

*USE* extraction apparatuses

**CENTRIFUGAL FAST ANALYZERS**

2000-04-12

*RT* chemical analysis

**CENTRIFUGAL PUMPS**

INIS: 1994-06-27; ETDE: 1979-09-26

\*BT1 pumps

**centrifugal separators**

INIS: 1976-10-07; ETDE: 1976-03-22

USE inertial separators

**CENTRIFUGATION**

BT1 separation processes

NT1 gas centrifugation

NT1 ultracentrifugation

RT centrifuge enrichment plants

RT isotope separation

RT podbielniak contactors

RT sedimentation

RT ultracentrifuges

**CENTRIFUGE ENRICHMENT PLANTS**

INIS: 1978-02-23; ETDE: 1976-05-17

UF enrichment plants (centrifuge)

UF enrichment plants (ultracentrifuge)

UF ultracentrifuge enrichment plants

\*BT1 isotope separation plants

NT1 portsmouth centrifuge enrichment plant

RT centrifugation

RT gas centrifugation

RT ultracentrifugation

**CENTRIFUGES**

BT1 concentrators

NT1 gas centrifuges

NT1 plasma centrifuges

NT1 ultracentrifuges

**centro informazioni studi esperienze**

2002-06-21

USE cise

**centro studi nucleari enrico fermi reactor**

1993-11-04

USE cesnef reactor

**CENTROMERES**

1995-01-27

Specialized portions of chromosomes used as anchoring points to secure chromosomes during cell division.

RT chromatin

RT chromosomes

RT mitosis

**cepfr-1 reactor**

2000-04-12

USE zero power reactors

**cephalins**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE amines

USE phospholipids

**CEPHEIDS**

\*BT1 pulsating variable stars

**CERAMIC MELTERS**

INIS: 1981-02-27; ETDE: 1980-01-24

An electric furnace for vitrifying liquid or calcined high-level radioactive wastes.

UF glass melters

\*BT1 electric furnaces

RT high-level radioactive wastes

RT liquid wastes

RT radioactive waste processing

RT solidification

RT vitrification

**CERAMICS**

RT borides

RT carbides

RT ceramics industry

RT ceramography

RT cermets

RT clays

RT dielectric track detectors

RT enamels

RT glass

RT glazes

RT mixed nitride fuels

RT mixed oxide fuels

RT nitrides

RT oxides

RT porcelain

RT pzt

RT refractories

RT slip casting

**CERAMICS INDUSTRY**

INIS: 1992-05-05; ETDE: 1977-11-28

BT1 industry

RT ceramics

RT metal industry

RT mineral industry

**CERAMOGRAPHY**

INIS: 1978-08-30; ETDE: 1978-10-19

Methods for the characterization of microstructural features and stereometric and topologic parameters of ceramic materials including sample preparation techniques.

RT autoradiography

RT ceramics

RT cracks

RT electron microprobe analysis

RT etching

RT fractography

RT materials testing

RT microhardness

RT microscopy

RT microstructure

RT particle size

RT photomicrography

RT porosity

RT post-irradiation examination

RT replica techniques

RT sample preparation

RT surface properties

**CERATITIS CAPITATA**

UF mediterranean fruit fly

\*BT1 fruit flies

**cercaria**

USE platyhelminths

**cercla**

1992-02-05

Comprehensive Environmental Response, Compensation and Liability Act.

USE us superfund

**CEREALS**

UF grains (cereal)

\*BT1 gramineae

NT1 barley

NT1 maize

NT1 millet

NT1 oats

NT1 rice

NT1 rye

NT1 sorghum

NT1 wheat

RT buckwheat

RT crops

RT flour

RT food

RT grain disinfestation

RT ustilago

RT vernalization

**CEREBELLUM**

\*BT1 brain

**CEREBRAL ARTERIES**

INIS: 1996-08-05; ETDE: 1986-02-21

\*BT1 arteries

RT brain

**CEREBRAL CORTEX**

UF cortex (cerebral)

\*BT1 cerebrum

RT behavior

RT conditioned reflexes

**CEREBROSIDES**

\*BT1 glycolipids

RT amides

RT galactose

**CEREBROSPINAL FLUID**

\*BT1 body fluids

RT central nervous system

**CEREBRUM**

\*BT1 brain

NT1 cerebral cortex

**cerianite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE oxide minerals

USE thorium minerals

**cerite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE silicate minerals

**CERIUM**

\*BT1 rare earths

NT1 cerium-alpha

NT1 cerium-beta

NT1 cerium-gamma

**CERIUM 119**

2007-01-22

\*BT1 cerium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 rare earth nuclei

**CERIUM 120**

2007-01-22

\*BT1 cerium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 rare earth nuclei

**CERIUM 121**

2002-02-27

\*BT1 beta-plus decay radioisotopes

\*BT1 cerium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**CERIUM 122**

2007-01-22

\*BT1 cerium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**CERIUM 123**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 cerium isotopes



- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 124**

*INIS: 1979-02-21; ETDE: 1979-03-28*

- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 125**

*INIS: 1979-02-21; ETDE: 1979-03-28*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 126**

- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 127**

*INIS: 1978-02-23; ETDE: 1978-04-28*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 128**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 129**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 130**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 131**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 132**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 133**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes

- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 134**

- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**CERIUM 135**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 136**

- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**CERIUM 136 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CERIUM 137**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei

**CERIUM 138**

- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**CERIUM 138 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CERIUM 139**

- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 140**

- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**CERIUM 140 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CERIUM 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**CERIUM 141 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*

- BT1 targets

**CERIUM 142**

- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**CERIUM 142 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*

- BT1 targets

**CERIUM 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**CERIUM 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**CERIUM 144 TARGET**

*INIS: 1992-09-22; ETDE: 1981-08-21*

- BT1 targets

**CERIUM 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 147**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 148**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 149**

*INIS: 1977-06-13; ETDE: 1975-09-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 150**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 151**

*INIS: 1977-01-26; ETDE: 1976-11-17*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 152**

*INIS: 1990-06-25; ETDE: 1990-08-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 153**

2007-01-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**CERIUM 154**

2007-01-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**CERIUM 155**

2007-01-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**CERIUM 156**

2007-01-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 157**

2007-01-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM ADDITIONS**

1996-11-13

*Alloys containing not more than 1% Ce are listed here.*

- \*BT1 cerium alloys
- \*BT1 rare earth additions

**CERIUM ALLOYS**

*Alloys containing more than 1% Ce.*

- \*BT1 rare earth alloys
- NT1 cerium additions
- NT1 cerium base alloys
- NT2 misch metal

**CERIUM-ALPHA**

- \*BT1 cerium

**CERIUM ARSENIDES**

*INIS: 1978-07-17; ETDE: 1978-10-19*

- \*BT1 arsenides
- \*BT1 cerium compounds

**CERIUM BASE ALLOYS**

- \*BT1 cerium alloys
- NT1 misch metal

**CERIUM-BETA**

*INIS: 1977-09-06; ETDE: 1977-06-02*

- \*BT1 cerium

**CERIUM BORIDES**

- \*BT1 borides
- \*BT1 cerium compounds

**CERIUM BROMIDES**

- \*BT1 bromides
- \*BT1 cerium compounds

**CERIUM CARBIDES**

- \*BT1 carbides
- \*BT1 cerium compounds

**CERIUM CARBONATES**

1996-07-18

- \*BT1 carbonates
- \*BT1 cerium compounds
- RT carbonate minerals

**CERIUM CHLORIDES**

- \*BT1 cerium compounds
- \*BT1 chlorides

**CERIUM COMPLEXES**

- \*BT1 rare earth complexes

**CERIUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 cerium arsenides
- NT1 cerium borides
- NT1 cerium bromides
- NT1 cerium carbides
- NT1 cerium carbonates
- NT1 cerium chlorides
- NT1 cerium fluorides
- NT1 cerium hydrides
- NT1 cerium hydroxides
- NT1 cerium iodides
- NT1 cerium nitrates
- NT1 cerium nitrides
- NT1 cerium oxides
- NT1 cerium perchlorates
- NT1 cerium phosphates
- NT1 cerium phosphides
- NT1 cerium selenides
- NT1 cerium silicates
- NT1 cerium silicides
- NT1 cerium sulfates
- NT1 cerium sulfides
- NT1 cerium tellurides
- NT1 cerium tungstates

**CERIUM FLUORIDES**

- \*BT1 cerium compounds
- \*BT1 fluorides

**CERIUM-GAMMA**

- \*BT1 cerium

**CERIUM HYDRIDES**

- \*BT1 cerium compounds
- \*BT1 hydrides

**CERIUM HYDROXIDES**

- \*BT1 cerium compounds
- \*BT1 hydroxides

**CERIUM IODIDES**

- \*BT1 cerium compounds
- \*BT1 iodides

**CERIUM IONS**

- \*BT1 ions

**CERIUM ISOTOPES**

- BT1 isotopes
- NT1 cerium 119
- NT1 cerium 120
- NT1 cerium 121
- NT1 cerium 122
- NT1 cerium 123
- NT1 cerium 124
- NT1 cerium 125
- NT1 cerium 126
- NT1 cerium 127
- NT1 cerium 128
- NT1 cerium 129
- NT1 cerium 130
- NT1 cerium 131
- NT1 cerium 132
- NT1 cerium 133
- NT1 cerium 134
- NT1 cerium 135
- NT1 cerium 136
- NT1 cerium 137

NT1 cerium 138

NT1 cerium 139

NT1 cerium 140

NT1 cerium 141

NT1 cerium 142

NT1 cerium 143

NT1 cerium 144

NT1 cerium 145

NT1 cerium 146

NT1 cerium 147

NT1 cerium 148

NT1 cerium 149

NT1 cerium 150

NT1 cerium 151

NT1 cerium 152

NT1 cerium 153

NT1 cerium 154

NT1 cerium 155

NT1 cerium 156

NT1 cerium 157

**CERIUM NITRATES**

- \*BT1 cerium compounds
- \*BT1 nitrates

**CERIUM NITRIDES**

- \*BT1 cerium compounds
- \*BT1 nitrides

**CERIUM OXIDES**

1996-06-26

- \*BT1 cerium compounds
- \*BT1 oxides
- RT oxide minerals

**CERIUM PERCHLORATES**

- \*BT1 cerium compounds
- \*BT1 perchlorates

**CERIUM PHOSPHATES**

1996-06-26

- \*BT1 cerium compounds
- \*BT1 phosphates
- RT phosphate minerals

**CERIUM PHOSPHIDES**

*INIS: 1978-07-17; ETDE: 1976-12-15*

- \*BT1 cerium compounds
- \*BT1 phosphides

**CERIUM SELENIDES**

*INIS: 1976-10-29; ETDE: 1976-12-16*

- \*BT1 cerium compounds
- \*BT1 selenides

**CERIUM SILICATES**

1996-07-18

- \*BT1 cerium compounds
- \*BT1 silicates
- RT kainosite
- RT silicate minerals

**CERIUM SILICIDES**

1975-10-29

- \*BT1 cerium compounds
- \*BT1 silicides

**CERIUM SULFATES**

- \*BT1 cerium compounds
- \*BT1 sulfates

**CERIUM SULFIDES**

- \*BT1 cerium compounds
- \*BT1 sulfides

**CERIUM TELLURIDES**

*INIS: 1985-03-15; ETDE: 1980-06-23*

- \*BT1 cerium compounds
- \*BT1 tellurides

**CERIUM TUNGSTATES**

*INIS: 1991-09-16; ETDE: 1977-06-02*

- \*BT1 cerium compounds

\*BT1 tungstates

## CERMETS

UF cemented carbides

UF hard metals

\*BT1 composite materials

NT1 td-nickel

NT1 td-nickel chromium

RT ceramics

RT refractories

## CERN

UF european organization for nuclear research

BT1 international organizations

## cern ag synchrotron

INIS: 1976-03-25; ETDE: 1976-01-26

USE cern ps synchrotron

## CERN CESAR

CERN Electron Storage and Accumulation Ring.

BT1 storage rings

## cern ii synchrotron

INIS: 1976-03-25; ETDE: 1976-01-26

USE cern sps synchrotron

## cern isolve

1994-04-12

USE isotope separators

## CERN ISR

CERN Intersection Storage Rings.

BT1 storage rings

## cern large hadronic collider

1995-10-05

USE cern lhc

## CERN LEAR

INIS: 1984-06-25; ETDE: 1987-05-01

Facility for antiproton physics at low energies with intense and cold beams of antiprotons.

Located in the South Experimental Hall of CERN PS.

UF cern low energy antiproton ring

UF lear

RT cern ps synchrotron

## cern lep

INIS: 1987-06-29; ETDE: 2002-06-13

USE lep storage rings

## CERN LHC

1995-10-05

UF cern large hadronic collider

BT1 storage rings

\*BT1 synchrotrons

## CERN LINAC

INIS: 1978-08-30; ETDE: 1978-10-19

\*BT1 linear accelerators

## cern low energy antiproton ring

INIS: 1993-11-04; ETDE: 2002-06-13

USE cern lear

## CERN PS SYNCHROTRON

INIS: 1975-12-17; ETDE: 1976-01-26

CERN 28-GeV Proton Synchrotron.

UF cern ag synchrotron

\*BT1 synchrotrons

RT cern lear

## CERN SPS SYNCHROTRON

INIS: 1975-12-17; ETDE: 1976-01-26

CERN 400-GeV Proton Synchrotron.

UF cern ii synchrotron

\*BT1 synchrotrons

## CERN SYNCHROCYCLOTRON

\*BT1 synchrocyclotrons

## CERNAVODA-1 REACTOR

INIS: 1982-08-27; ETDE: 1990-10-09

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

## CERRO PRIETO GEOTHERMAL FIELD

1992-06-04

BT1 geothermal fields

RT geothermal hot-water systems

RT mexico

## CERROBEND ALLOYS

2000-04-12

\*BT1 bismuth base alloys

\*BT1 cadmium alloys

\*BT1 lead alloys

\*BT1 tin alloys

## CERTIFICATION

INIS: 1991-08-15; ETDE: 1979-02-27

(Prior to August 1991, this concept was indexed to LICENSING.)

RT licensing

RT performance testing

RT quality assurance

RT standards

RT testing

## CERULOPLASMIN

\*BT1 copper complexes

\*BT1 globulins-alpha

\*BT1 metalloproteins

## CESAR REACTOR

CEA/CEN, Cadarache, St. Paul Lez Durance, France.

\*BT1 carbon dioxide cooled reactors

\*BT1 experimental reactors

\*BT1 graphite moderated reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 thermal reactors

RT enriched uranium reactors

## CESIUM

UF caesium

\*BT1 alkali metals

## CESIUM 112

2007-10-22

\*BT1 cesium isotopes

\*BT1 intermediate mass nuclei

\*BT1 microseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

## CESIUM 113

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 cesium isotopes

\*BT1 intermediate mass nuclei

\*BT1 microseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

## CESIUM 114

INIS: 1979-01-18; ETDE: 1979-02-23

\*BT1 beta-plus decay radioisotopes

\*BT1 cesium isotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

## CESIUM 115

INIS: 1979-01-18; ETDE: 1979-02-23

\*BT1 beta-plus decay radioisotopes

\*BT1 cesium isotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

## CESIUM 116

\*BT1 beta-plus decay radioisotopes

\*BT1 cesium isotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

## CESIUM 117

\*BT1 beta-plus decay radioisotopes

\*BT1 cesium isotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

## CESIUM 118

\*BT1 beta-plus decay radioisotopes

\*BT1 cesium isotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

## CESIUM 119

\*BT1 beta-plus decay radioisotopes

\*BT1 cesium isotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

## CESIUM 120

\*BT1 beta-plus decay radioisotopes

\*BT1 cesium isotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

## CESIUM 121

\*BT1 beta-plus decay radioisotopes

\*BT1 cesium isotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

## CESIUM 122

\*BT1 beta-plus decay radioisotopes

\*BT1 cesium isotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

## CESIUM 123

\*BT1 beta-plus decay radioisotopes

\*BT1 cesium isotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

## CESIUM 124

\*BT1 beta-plus decay radioisotopes

\*BT1 cesium isotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

## CESIUM 125

\*BT1 beta-plus decay radioisotopes

- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 126**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 127**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CESIUM 128**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 129**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CESIUM 130**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 131**

- \*BT1 cesium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CESIUM 131 TARGET**

1988-02-02

- BT1 targets

**CESIUM 132**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**CESIUM 132 TARGET**

INIS: 1979-02-21; ETDE: 1979-03-28

- BT1 targets

**CESIUM 133**

- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**CESIUM 133 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CESIUM 134**

- \*BT1 beta-minus decay radioisotopes

- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**CESIUM 134 TARGET**

1988-02-02

- BT1 targets

**CESIUM 135**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**CESIUM 135 TARGET**

INIS: 1988-02-02; ETDE: 1981-08-21

- BT1 targets

**CESIUM 136**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 137**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes
- RT radioisotope generators

**CESIUM 137 TARGET**

INIS: 1988-08-02; ETDE: 1981-08-21

- BT1 targets

**CESIUM 138**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 139**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 140**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 142**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 147**

INIS: 1979-04-27; ETDE: 1978-12-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 148**

INIS: 1979-04-27; ETDE: 1979-05-25

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 149**

2002-01-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 150**

2002-01-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 151**

2007-10-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM ADDITIONS**

Alloys containing not more than 1% Cs are listed here.

- \*BT1 cesium alloys

**CESIUM ALLOYS**

Alloys containing more than 1% Cs.

- BT1 alloys
- NT1 cesium additions
- NT1 cesium base alloys

**CESIUM BASE ALLOYS**

- \*BT1 cesium alloys

**CESIUM BROMIDES**

- \*BT1 bromides
- \*BT1 cesium compounds

**CESIUM CARBIDES**

- \*BT1 carbides
- \*BT1 cesium compounds

**CESIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 cesium compounds

**CESIUM CHLORIDES**

- \*BT1 cesium compounds
- \*BT1 chlorides

**CESIUM COMPLEXES**

- \*BT1 alkali metal complexes

**CESIUM COMPOUNDS**

1996-06-26

- BT1 alkali metal compounds
- NT1 cesium bromides
- NT1 cesium carbides
- NT1 cesium carbonates
- NT1 cesium chlorides
- NT1 cesium fluorides
- NT1 cesium hydrides
- NT1 cesium hydroxides
- NT1 cesium iodides
- NT1 cesium nitrates
- NT1 cesium nitrides
- NT1 cesium oxides
- NT1 cesium perchlorates
- NT1 cesium phosphates
- NT1 cesium selenides
- NT1 cesium silicates
- NT1 cesium silicides
- NT1 cesium sulfates
- NT1 cesium sulfides
- NT1 cesium tellurides
- NT1 cesium tungstates
- NT1 cesium uranates

**CESIUM FLUORIDES**

- \*BT1 cesium compounds
- \*BT1 fluorides

**CESIUM HYDRIDES**

- \*BT1 cesium compounds
- \*BT1 hydrides

**CESIUM HYDROXIDES**

- \*BT1 cesium compounds
- \*BT1 hydroxides

**CESIUM IODIDES**

- \*BT1 cesium compounds
- \*BT1 inorganic phosphors
- \*BT1 iodides

**CESIUM IONS**

- \*BT1 ions

**CESIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 cesium 112
- NT1 cesium 113
- NT1 cesium 114
- NT1 cesium 115
- NT1 cesium 116
- NT1 cesium 117
- NT1 cesium 118
- NT1 cesium 119
- NT1 cesium 120
- NT1 cesium 121
- NT1 cesium 122
- NT1 cesium 123
- NT1 cesium 124
- NT1 cesium 125
- NT1 cesium 126

NT1 cesium 127

NT1 cesium 128

NT1 cesium 129

NT1 cesium 130

NT1 cesium 131

NT1 cesium 132

NT1 cesium 133

NT1 cesium 134

NT1 cesium 135

NT1 cesium 136

NT1 cesium 137

NT1 cesium 138

NT1 cesium 139

NT1 cesium 140

NT1 cesium 141

NT1 cesium 142

NT1 cesium 143

NT1 cesium 144

NT1 cesium 145

NT1 cesium 146

NT1 cesium 147

NT1 cesium 148

NT1 cesium 149

NT1 cesium 150

NT1 cesium 151

**CESIUM NITRATES**

- \*BT1 cesium compounds
- \*BT1 nitrates

**CESIUM NITRIDES**

1996-06-26

(June 1996 to November 2007 CESIUM COMPOUNDS + NITRIDES was used for this concept.)

- \*BT1 cesium compounds
- \*BT1 nitrides

**CESIUM OXIDES**

- \*BT1 cesium compounds
- \*BT1 oxides

**CESIUM PERCHLORATES**

1978-11-24

- \*BT1 cesium compounds
- \*BT1 perchlorates

**CESIUM PHOSPHATES**

- \*BT1 cesium compounds
- \*BT1 phosphates

**CESIUM SELENIDES**

INIS: 1979-09-18; ETDE: 1979-10-23

- \*BT1 cesium compounds
- \*BT1 selenides

**CESIUM SILICATES**

- \*BT1 cesium compounds
- \*BT1 silicates
- RT pollucite

**CESIUM SILICIDES**

1988-02-02

- \*BT1 cesium compounds
- \*BT1 silicides

**CESIUM SULFATES**

- \*BT1 cesium compounds
- \*BT1 sulfates

**CESIUM SULFIDES**

- \*BT1 cesium compounds
- \*BT1 sulfides

**CESIUM TELLURIDES**

INIS: 1983-02-03; ETDE: 1979-05-03

- \*BT1 cesium compounds
- \*BT1 tellurides

**CESIUM TUNGSTATES**

1978-05-19

- \*BT1 cesium compounds
- \*BT1 tungstates

**CESIUM URANATES**

1975-11-27

- \*BT1 cesium compounds
- \*BT1 uranates

**CESNEF REACTOR**

Centro Studi Nucleari E. Fermi, Milan, Italy.

UF centro studi nucleari enrico fermi reactor

UF enrico fermi nuclear research center reactor

UF l-54 reactor

- \*BT1 aqueous homogeneous reactors
- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**CESR STORAGE RING**

INIS: 1979-01-18; ETDE: 1979-02-23

UF cornell electron-positron storage ring

BT1 storage rings

**CESTODES**

1996-11-13

(Prior to March 1997 HYMENOLEPIS was a valid ETDE descriptor.)

UF hymenolepis

UF tapeworms

BT1 parasites

\*BT1 platyhelminths

RT hydatidosis

**CETACEANS**

INIS: 1991-09-30; ETDE: 1976-05-13

The order of aquatic mammals that includes whales, dolphins, and porpoises.

UF dolphins

UF porpoises

UF whales

BT1 aquatic organisms

\*BT1 mammals

**cetane number**

2000-04-12

USE antiknock ratings

**cetene number**

2000-04-12

USE antiknock ratings

**ceylon**

USE sri lanka

**cfc**

INIS: 1992-06-19; ETDE: 1992-04-01

USE chlorofluorocarbons

**CFFC PROCESS**

INIS: 2000-04-12; ETDE: 1976-08-24

Coal liquefaction process developed by C-E Lummus, a subsidiary of Combustion Engineering to produce low sulfur, low ash, synthetic boiler fuel.

UF clean fuel from coal process

\*BT1 coal liquefaction

**cfff**

INIS: 2000-04-12; ETDE: 1979-05-09

USE mhd generator cfff

**cfg reactor**

USE anex reactor

**CFRMF REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1991.

UF coupled fast reactor measurement facility

\*BT1 fast reactors

\*BT1 zero power reactors

### **cfrp program**

INIS: 1994-08-22; ETDE: 1981-03-13

USE consolidated fuel reprocessing program

### **cfu (colony forming units)**

INIS: 2006-09-19; ETDE: 2005-01-28

(Prior to January 2005 CFU was a valid descriptor.)

USE colony forming units

### **CHACALTAYA**

\*BT1 bolivia

### **CHAD**

BT1 africa

BT1 developing countries

### **CHAIN CONVEYORS**

INIS: 2000-04-12; ETDE: 1982-09-10

\*BT1 conveyors

RT mine haulage

RT mining equipment

RT transport

### **CHAIN REACTIONS**

RT criticality

RT fission

RT fissioning plasma

RT natural nuclear reactors

RT nuclear reactions

RT oklo phenomenon

RT thermonuclear reactions

### **CHAINS**

INIS: 1999-02-12; ETDE: 1988-01-21

RT cables

RT ropes

RT wires

### **CHALCOGENIDES**

NT1 oxides

NT2 actinium oxides  
NT2 aluminium oxides  
NT2 americium oxides  
NT2 antimony oxides  
NT2 argon oxides  
NT2 arsenic oxides  
NT2 barium oxides  
NT2 berkelium oxides  
NT2 beryllium oxides  
NT2 bismuth oxides  
NT2 boron oxides  
NT2 bromine oxides  
NT2 cadmium oxides  
NT2 calcium oxides  
NT2 californium oxides  
NT2 carbon oxides  
NT3 carbon dioxide  
NT3 carbon monoxide  
NT2 cerium oxides  
NT2 cesium oxides  
NT2 chlorine oxides  
NT2 chromium oxides  
NT2 cobalt oxides  
NT2 copper oxides  
NT2 curium oxides  
NT2 dysprosium oxides  
NT2 einsteinium oxides  
NT2 erbium oxides  
NT2 europium oxides  
NT2 fermium oxides  
NT2 fluorine oxides  
NT2 gadolinium oxides  
NT2 gallium oxides  
NT2 germanium oxides  
NT2 gold oxides  
NT2 hafnium oxides  
NT2 helium oxides

NT2 holmium oxides  
NT2 indium oxides  
NT2 iodine oxides  
NT2 iridium oxides  
NT2 iron oxides  
NT2 krypton oxides  
NT2 lanthanum oxides  
NT2 lead oxides  
NT2 lithium oxides  
NT2 lutetium oxides  
NT2 magnesium oxides  
NT2 manganese oxides  
NT2 mendelevium oxides  
NT2 mercury oxides  
NT2 molybdenum oxides  
NT3 molybdenum blue  
NT2 neodymium oxides  
NT2 neon oxides  
NT2 neptunium oxides  
NT2 nickel oxides  
NT2 niobium oxides  
NT2 nitrogen oxides  
NT3 nitric oxide  
NT3 nitrogen dioxide  
NT3 nitrous oxide  
NT2 nobelium oxides  
NT2 osmium oxides  
NT2 palladium oxides  
NT2 phosphorus oxides  
NT2 platinum oxides  
NT2 plutonium oxides  
NT3 plutonium dioxide  
NT2 polonium oxides  
NT2 potassium oxides  
NT2 praseodymium oxides  
NT2 promethium oxides  
NT2 protactinium oxides  
NT2 radium oxides  
NT2 radon oxides  
NT2 rhenium oxides  
NT2 rhodium oxides  
NT2 rubidium oxides  
NT2 ruthenium oxides  
NT2 samarium oxides  
NT2 scandium oxides  
NT2 selenium oxides  
NT2 silicon oxides  
NT2 silver oxides  
NT2 sodium oxides  
NT3 sodium tungsten bronze  
NT2 strontium oxides  
NT2 sulfur oxides  
NT3 sulfur dioxide  
NT3 sulfur trioxide  
NT2 tantalum oxides  
NT2 technetium oxides  
NT2 tellurium oxides  
NT2 terbium oxides  
NT2 thallium oxides  
NT2 thorium oxides  
NT3 thorotrast  
NT2 thulium oxides  
NT2 tin oxides  
NT2 titanium oxides  
NT2 tritium oxides  
NT2 tungsten oxides  
NT3 sodium tungsten bronze  
NT2 uranium oxides  
NT3 uranium dioxide  
NT3 uranium oxides u3o8  
NT3 uranium trioxide  
NT2 vanadium oxides  
NT2 xenon oxides  
NT2 ytterbium oxides  
NT2 yttrium oxides  
NT3 alloy-in-853  
NT2 zinc oxides  
NT2 zirconium oxides

NT1 selenides

NT2 aluminium selenides  
NT2 americium selenides  
NT2 antimony selenides  
NT2 arsenic selenides  
NT2 berkelium selenides  
NT2 beryllium selenides  
NT2 bismuth selenides  
NT2 cadmium selenides  
NT2 californium selenides  
NT2 cerium selenides  
NT2 cesium selenides  
NT2 chromium selenides  
NT2 cobalt selenides  
NT2 copper selenides  
NT2 curium selenides  
NT2 dysprosium selenides  
NT2 erbium selenides  
NT2 europium selenides  
NT2 gadolinium selenides  
NT2 gallium selenides  
NT2 germanium selenides  
NT2 hafnium selenides  
NT2 holmium selenides  
NT2 indium selenides  
NT2 iron selenides  
NT2 lanthanum selenides  
NT2 lead selenides  
NT2 lithium selenides  
NT2 lutetium selenides  
NT2 manganese selenides  
NT2 mercury selenides  
NT2 molybdenum selenides  
NT2 neptunium selenides  
NT2 nickel selenides  
NT2 niobium selenides  
NT2 palladium selenides  
NT2 plutonium selenides  
NT2 potassium selenides  
NT2 praseodymium selenides  
NT2 rhenium selenides  
NT2 rhodium selenides  
NT2 rubidium selenides  
NT2 ruthenium selenides  
NT2 samarium selenides  
NT2 scandium selenides  
NT2 silver selenides  
NT2 sodium selenides  
NT2 tantalum selenides  
NT2 technetium selenides  
NT2 terbium selenides  
NT2 thallium selenides  
NT2 thorium selenides  
NT2 thulium selenides  
NT2 tin selenides  
NT2 titanium selenides  
NT2 tungsten selenides  
NT2 uranium selenides  
NT2 vanadium selenides  
NT2 ytterbium selenides  
NT2 yttrium selenides  
NT2 zinc selenides  
NT2 zirconium selenides  
NT1 sulfides  
NT2 aluminium sulfides  
NT2 americium sulfides  
NT2 antimony sulfides  
NT2 arsenic sulfides  
NT2 barium sulfides  
NT2 berkelium sulfides  
NT2 beryllium sulfides  
NT2 bismuth sulfides  
NT2 boron sulfides  
NT2 cadmium sulfides  
NT2 calcium sulfides  
NT2 californium sulfides  
NT2 carbon sulfides  
NT2 cerium sulfides  
NT2 cesium sulfides  
NT2 chromium sulfides

NT2 cobalt sulfides  
 NT2 copper sulfides  
 NT2 curium sulfides  
 NT2 dimethyl sulfide  
 NT2 dysprosium sulfides  
 NT2 erbium sulfides  
 NT2 europium sulfides  
 NT2 gadolinium sulfides  
 NT2 gallium sulfides  
 NT2 germanium sulfides  
 NT2 hafnium sulfides  
 NT2 holmium sulfides  
 NT2 hydrogen sulfides  
 NT2 indium sulfides  
 NT2 iron sulfides  
 NT2 lanthanum sulfides  
 NT2 lead sulfides  
 NT2 lithium sulfides  
 NT2 lutetium sulfides  
 NT2 magnesium sulfides  
 NT2 manganese sulfides  
 NT2 mercury sulfides  
 NT2 molybdenum sulfides  
 NT2 neodymium sulfides  
 NT2 neptunium sulfides  
 NT2 nickel sulfides  
 NT2 niobium sulfides  
 NT2 osmium sulfides  
 NT2 palladium sulfides  
 NT2 phosphorus sulfides  
 NT2 platinum sulfides  
 NT2 plutonium sulfides  
 NT2 potassium sulfides  
 NT2 praseodymium sulfides  
 NT2 rhenium sulfides  
 NT2 rhodium sulfides  
 NT2 rubidium sulfides  
 NT2 ruthenium sulfides  
 NT2 samarium sulfides  
 NT2 scandium sulfides  
 NT2 selenium sulfides  
 NT2 silicon sulfides  
 NT2 silver sulfides  
 NT2 sodium sulfides  
 NT2 strontium sulfides  
 NT2 tantalum sulfides  
 NT2 technetium sulfides  
 NT2 tellurium sulfides  
 NT2 terbium sulfides  
 NT2 thallium sulfides  
 NT2 thorium sulfides  
 NT2 thulium sulfides  
 NT2 tin sulfides  
 NT2 titanium sulfides  
 NT2 tungsten sulfides  
 NT2 uranium sulfides  
 NT2 vanadium sulfides  
 NT2 ytterbium sulfides  
 NT2 yttrium sulfides  
 NT2 zinc sulfides  
 NT2 zirconium sulfides  
 NT1 tellurides  
 NT2 aluminium tellurides  
 NT2 americium tellurides  
 NT2 antimony tellurides  
 NT2 arsenic tellurides  
 NT2 berkelium tellurides  
 NT2 beryllium tellurides  
 NT2 bismuth tellurides  
 NT2 cadmium tellurides  
 NT2 californium tellurides  
 NT2 cerium tellurides  
 NT2 cesium tellurides  
 NT2 chromium tellurides  
 NT2 cobalt tellurides  
 NT2 copper tellurides  
 NT2 curium tellurides  
 NT2 dysprosium tellurides  
 NT2 erbium tellurides  
 NT2 europium tellurides  
 NT2 gadolinium tellurides  
 NT2 gallium tellurides  
 NT2 germanium tellurides  
 NT2 gold tellurides  
 NT2 hafnium tellurides  
 NT2 holmium tellurides  
 NT2 indium tellurides  
 NT2 iridium tellurides  
 NT2 iron tellurides  
 NT2 lanthanum tellurides  
 NT2 lead tellurides  
 NT2 lithium tellurides  
 NT2 magnesium tellurides  
 NT2 manganese tellurides  
 NT2 mercury tellurides  
 NT2 molybdenum tellurides  
 NT2 neodymium tellurides  
 NT2 neptunium tellurides  
 NT2 nickel tellurides  
 NT2 niobium tellurides  
 NT2 palladium tellurides  
 NT2 platinum tellurides  
 NT2 plutonium tellurides  
 NT2 potassium tellurides  
 NT2 praseodymium tellurides  
 NT2 rhenium tellurides  
 NT2 rhodium tellurides  
 NT2 rubidium tellurides  
 NT2 ruthenium tellurides  
 NT2 samarium tellurides  
 NT2 selenium tellurides  
 NT2 silver tellurides  
 NT2 sodium tellurides  
 NT2 tantalum tellurides  
 NT2 technetium tellurides  
 NT2 terbium tellurides  
 NT2 thallium tellurides  
 NT2 thorium tellurides  
 NT2 thulium tellurides  
 NT2 tin tellurides  
 NT2 titanium tellurides  
 NT2 tungsten tellurides  
 NT2 uranium tellurides  
 NT2 vanadium tellurides  
 NT2 ytterbium tellurides  
 NT2 yttrium tellurides  
 NT2 zinc tellurides  
 NT2 zirconium tellurides  
 RT high-*tc* superconductors

## CHALCOPYRITE

*A bright brass-yellow tetragonal mineral.*

\*BT1 sulfide minerals

RT copper sulfides

RT iron sulfides

## chalk

INIS: 1984-04-04; ETDE: 2002-06-13

USE calcite

## CHALK RIVER

\*BT1 ontario

## chalk river cyclotron

INIS: 2000-04-12; ETDE: 1983-03-24

USE crnl superconducting cyclotron

## CHALK RIVER NUCLEAR LABS

\*BT1 atomic energy of canada ltd

RT canada

## chalk river pool test reactor

USE ptr reactor

## chalk river superconducting cyclotron

INIS: 1993-11-04; ETDE: 2002-06-13

USE crnl superconducting cyclotron

## chalk river zed-2 reactor

INIS: 1984-06-21; ETDE: 2002-06-13

USE zed-2 reactor

## chalks

INIS: 2000-04-12; ETDE: 1978-06-14

USE limestone

## CHAMBER FURNACES

INIS: 2000-04-12; ETDE: 1976-11-17

UF chamber kilns

UF chamber ovens

BT1 furnaces

## chamber kilns

INIS: 2000-04-12; ETDE: 1976-11-17

USE chamber furnaces

## chamber ovens

INIS: 2000-04-12; ETDE: 1976-11-17

USE chamber furnaces

## CHANDIGARH CYCLOTRON

INIS: 1983-06-01; ETDE: 1983-03-24

\*BT1 variable energy cyclotrons

## chandrasekhar-fermi theory

USE chandrasekhar theory

## CHANDRASEKHAR THEORY

UF chandrasekhar-fermi theory

RT astrophysics

RT stars

## CHANNELING

UF blocking

UF coning

UF dechanneling

NT1 electron channeling

NT1 ion channeling

NT1 positron channeling

NT1 proton channeling

## channels (reactor)

USE reactor channels

## CHAOS THEORY

INIS: 2002-06-24; ETDE: 2002-08-05

BT1 mathematics

RT fuzzy logic

RT mathematical space

RT probability

RT statistics

RT stochastic processes

## CHAPELCROSS-1 REACTOR

Annan, Scotland, United Kingdom.

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

## CHAPELCROSS-2 REACTOR

Annan, Scotland, United Kingdom.

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

## CHAPELCROSS-3 REACTOR

Annan, Scotland, United Kingdom.

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

## CHAPELCROSS-4 REACTOR

Annan, Scotland, United Kingdom.

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

**chaperonins**

1994-07-14

USE heat-shock proteins

**CHAPMAN-ENSKOG THEORY**

RT transport theory

**CHAPMAN-FERRARO PROBLEM**

RT solar wind

RT transport theory

**CHAPMAN-KOLMOGOROV EQUATION**

*A set of equations used in the theory of stochastic processes, giving the state of a system as a probability distribution at a certain time in terms of the known states at previous times.*

SF kolmogorov equation

\*BT1 differential equations

RT markov process

RT reactor kinetics equations

RT stochastic processes

**char oil energy development process**

2000-04-12

USE coed process

**CHARCOAL**

1999-01-20

BT1 adsorbents

RT activated carbon

RT solid fuels

RT wood fuels

**CHARGE CARRIERS**

RT carrier density

RT carrier lifetime

RT carrier mobility

RT dember effect

RT electric charges

RT electron-hole droplets

RT electrons

RT holes

RT point defects

**CHARGE COLLECTION**

RT charge transport

RT charged particles

**charge conjugation invariance**

USE c invariance

**CHARGE CONSERVATION**

UF conservation (charge)

RT electric charges

RT gauge invariance

**CHARGE-COUPLED DEVICES**

INIS: 1979-09-18; ETDE: 1978-04-27

*Semiconductor devices arrayed so that the electric charge at the output of one provides the input stimulus to the next.*

UF ccd

BT1 semiconductor devices

**CHARGE DENSITY**

INIS: 1976-05-05; ETDE: 1976-08-24

UF density (charge)

RT electric charges

RT energy density

**CHARGE DISTRIBUTION**

INIS: 1982-11-29; ETDE: 1975-08-19

Not for CHARGE STATES.

(Prior to January 1983 this concept was indexed by coordination of ELECTRIC CHARGES and SPATIAL DISTRIBUTION.)

RT electric charges

RT electrostatics

RT ion beams

RT multiple production

RT nuclear radii

RT space charge

RT spatial distribution

**CHARGE EXCHANGE**

UF exchange (charge)

RT beam neutralization

RT beam strippers

RT electron capture

RT electron loss

RT hydrogen transfer

RT ionization

RT neutral particle analyzers

RT plasma potential

**CHARGE-EXCHANGE INTERACTIONS**

\*BT1 strong interactions

RT cluster emission model

**CHARGE-EXCHANGE REACTIONS**

BT1 nuclear reactions

**CHARGE INDEPENDENCE**

BT1 invariance principles

RT nucleons

RT strong interactions

**CHARGE PLUNGER METHOD**

INIS: 1978-08-30; ETDE: 1978-10-19

*Method for the determination of lifetimes of nuclear levels.*

UF plunger method

UF recoil distance method

BT1 counting techniques

RT lifetime

RT time-of-flight method

**charge radius (nuclear)**

USE nuclear radii

**charge radius (particle)**

USE particle radii

**charge ratio**

INIS: 2000-04-12; ETDE: 1978-07-05

USE minus-plus ratio

**CHARGE RENORMALIZATION**

BT1 renormalization

RT electrodynamics

**charge state (batteries)**

INIS: 1993-02-04; ETDE: 2002-06-13

USE battery charge state

**charge state distributions**

INIS: 1984-06-21; ETDE: 2002-06-13

USE charge states

**CHARGE STATES**

INIS: 1984-06-21; ETDE: 1984-07-10

NOT for electric batteries.

UF charge state distributions

RT beam strippers

RT charged particles

RT electric charges

RT electron capture

RT electron loss

RT ionization

RT ions

**CHARGE TRANSPORT**

RT charge collection

RT electric charges

**CHARGED-CURRENT INTERACTIONS**

INIS: 1976-08-17; ETDE: 1976-06-07

\*BT1 particle interactions

RT basic interactions

RT charged currents

RT weinberg angle

**CHARGED CURRENTS**

INIS: 1976-08-17; ETDE: 1976-06-07

\*BT1 algebraic currents

NT1 weak charged currents

RT charged-current interactions

RT electromagnetic interactions

RT neutral currents

RT weak interactions

**CHARGED-PARTICLE ACTIVATION ANALYSIS**

INIS: 1978-11-24; ETDE: 1991-08-20

For the process.

UF analysis (charged-particle activation)

\*BT1 activation analysis

**CHARGED PARTICLE DETECTION**

\*BT1 radiation detection

NT1 acoustic detection

NT1 alpha detection

NT1 beta detection

NT1 electron detection

NT1 ion detection

NT1 muon detection

NT1 positron detection

NT1 proton detection

RT cosmic ray detection

RT fission fragment detection

RT radiation detectors

RT radiation length

**CHARGED-PARTICLE PRECIPITATION**

NT1 electron precipitation

NT1 proton precipitation

RT aurorae

RT auroral oval

RT charged particles

RT midday aurorae

RT radiation belts

**CHARGED-PARTICLE REACTIONS**

2000-04-12

BT1 nuclear reactions

NT1 alpha reactions

NT1 deuterium reactions

NT2 antideuteron reactions

NT1 electron reactions

NT2 electrofission

NT1 helium 3 reactions

NT1 meson reactions

NT2 kaon reactions

NT3 kaon minus reactions

NT3 kaon neutral reactions

NT3 kaon plus reactions

NT2 pion reactions

NT3 pion minus reactions

NT3 pion plus reactions

NT1 muon reactions

NT1 proton reactions

NT1 triton reactions

RT charged particles

RT ions

**CHARGED-PARTICLE TRANSPORT**

UF transport (charged-particle)

BT1 radiation transport

NT1 proton transport

RT charged-particle transport theory

RT charged particles

**CHARGED-PARTICLE TRANSPORT THEORY**

BT1 transport theory

NT1 neoclassical transport theory

NT1 spitzer theory

RT charged-particle transport

RT charged particles

RT elementary particles



**CHARGED PARTICLES**

*In addition to the specific charged particles listed below, see also the list under ELEMENTARY PARTICLES.*

**NT1** alpha particles  
**NT2** cosmic alpha particles  
**NT2** delayed alpha particles  
**NT2** solar alpha particles  
**NT1** beta particles  
**NT1** deuterons  
**NT2** antideuterons  
**NT1** ions  
**NT2** actinium ions  
**NT2** aluminium ions  
**NT2** americium ions  
**NT2** anions  
**NT3** heteropolyanions  
**NT3** hydrogen ions 1 minus  
**NT2** antimony ions  
**NT2** argon ions  
**NT2** arsenic ions  
**NT2** astatine ions  
**NT2** atomic ions  
**NT2** barium ions  
**NT2** berkelium ions  
**NT2** beryllium ions  
**NT2** bismuth ions  
**NT2** boron ions  
**NT2** bromine ions  
**NT2** cadmium ions  
**NT2** calcium ions  
**NT2** californium ions  
**NT2** carbon ions  
**NT2** cations  
**NT3** hydrogen ions 1 plus  
**NT3** hydrogen ions 2 plus  
**NT3** hydrogen ions 3 plus  
**NT2** cerium ions  
**NT2** cesium ions  
**NT2** chlorine ions  
**NT2** chromium ions  
**NT2** cobalt ions  
**NT2** copper ions  
**NT2** curium ions  
**NT2** deuterium ions  
**NT2** dysprosium ions  
**NT2** einsteinium ions  
**NT2** erbium ions  
**NT2** europium ions  
**NT2** fermium ions  
**NT2** fluorine ions  
**NT2** francium ions  
**NT2** gadolinium ions  
**NT2** gallium ions  
**NT2** germanium ions  
**NT2** gold ions  
**NT2** hafnium ions  
**NT2** heavy ions  
**NT2** helium ions  
**NT3** helium ash  
**NT2** holmium ions  
**NT2** hydrogen ions  
**NT3** hydrogen ions 1 minus  
**NT3** hydrogen ions 1 plus  
**NT3** hydrogen ions 2 plus  
**NT3** hydrogen ions 3 plus  
**NT2** indium ions  
**NT2** iodine ions  
**NT2** iridium ions  
**NT2** iron ions  
**NT2** krypton ions  
**NT2** lanthanum ions  
**NT2** lead ions  
**NT2** light ions  
**NT2** lithium ions  
**NT2** lutetium ions  
**NT2** magnesium ions  
**NT2** manganese ions  
**NT2** mercury ions

**NT2** molecular ions  
**NT3** hydrogen ions 2 plus  
**NT3** hydrogen ions 3 plus  
**NT3** oxonium ions  
**NT2** molybdenum ions  
**NT2** multicharged ions  
**NT2** muonic ions  
**NT2** neodymium ions  
**NT2** neon ions  
**NT2** neptunium ions  
**NT2** nickel ions  
**NT2** niobium ions  
**NT2** nitrogen ions  
**NT2** osmium ions  
**NT2** oxygen ions  
**NT2** palladium ions  
**NT2** phosphorus ions  
**NT2** platinum ions  
**NT2** plutonium ions  
**NT2** polonium ions  
**NT2** potassium ions  
**NT2** praseodymium ions  
**NT2** promethium ions  
**NT2** protactinium ions  
**NT2** radium ions  
**NT2** radon ions  
**NT2** rhenium ions  
**NT2** rhodium ions  
**NT2** rubidium ions  
**NT2** ruthenium ions  
**NT2** samarium ions  
**NT2** scandium ions  
**NT2** selenium ions  
**NT2** silicon ions  
**NT2** silver ions  
**NT2** sodium ions  
**NT2** strontium ions  
**NT2** sulfur ions  
**NT2** tail ions  
**NT2** tantalum ions  
**NT2** technetium ions  
**NT2** tellurium ions  
**NT2** terbium ions  
**NT2** thallium ions  
**NT2** thorium ions  
**NT2** thulium ions  
**NT2** tin ions  
**NT2** titanium ions  
**NT2** tritium ions  
**NT2** tungsten ions  
**NT2** uranium ions  
**NT2** vanadium ions  
**NT2** xenon ions  
**NT2** ytterbium ions  
**NT2** yttrium ions  
**NT2** zinc ions  
**NT2** zirconium ions  
**NT1** tritons  
**NT2** antitritons  
**RT** battery charge state  
**RT** charge collection  
**RT** charge states  
**RT** charged-particle precipitation  
**RT** charged-particle reactions  
**RT** charged-particle transport  
**RT** charged-particle transport theory  
**RT** directed-energy weapons  
**RT** guiding-center approximation  
**RT** ion beams  
**RT** lorentz force  
**RT** ponderomotive force  
**RT** stoermer theory  
**RT** test particles

**CHARGES**

*Pecuniary burden or fees.*  
 (From November 1979 till March 1997 SURCHARGES was a valid ETDE descriptor.)

**UF** assessments  
**UF** fees  
**UF** financial penalties  
**UF** penalties  
**SF** surcharges  
**RT** cost  
**RT** cost overruns  
**RT** cost recovery  
**RT** emissions trading  
**RT** income  
**RT** interest rate  
**RT** invoices  
**RT** prices  
**RT** tax credits  
**RT** taxes

**charging (fission reactor)**

1982-11-29

**USE** reactor fueling

**charging (fusion reactor)**

INIS: 1982-11-30; ETDE: 2002-06-13

**USE** thermonuclear reactor fueling

**charging machines (fission reactor)**

1993-11-04

**USE** reactor charging machines

**chariot event**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

**USE** plowshare project

**CHARM PARTICLES**

1995-09-08

**BT1** elementary particles  
**NT1** c quarks  
**NT2** c antiquarks  
**NT1** charmed baryons  
**NT2** lambda c-2625 baryons  
**NT2** lambda c plus baryons  
**NT2** omega c neutral baryons  
**NT2** sigma c-2455 baryons  
**NT2** xi c neutral baryons  
**NT2** xi c plus baryons  
**NT1** charmed mesons  
**NT2** b c mesons  
**NT2** d mesons  
**NT3** d minus mesons  
**NT3** d neutral mesons  
**NT4** anti-d neutral mesons  
**NT3** d plus mesons  
**NT2** d s-2536 mesons  
**NT2** d s mesons  
**NT2** d\*-2010 mesons  
**NT2** d\*-2460 mesons  
**NT2** d\*s-2110 mesons  
**NT2** d1-2420 mesons  
**RT** charmonium  
**RT** color model  
**RT** hadrons  
**RT** hypercharge  
**RT** isospin  
**RT** quark model  
**RT** su-3 groups

**charmed baryon resonances**

INIS: 1987-12-21; ETDE: 1978-10-19

(Prior to December 1987 this was a valid descriptor.)

**USE** charmed baryons

**CHARMED BARYONS**

*INIS: 1995-07-17; ETDE: 1988-02-05*  
(Prior to December 1987 this concept was indexed by CHARMED BARYON RESONANCES.)

*UF charmed baryon resonances*  
\*BT1 baryons  
\*BT1 charm particles  
NT1 lambda c-2625 baryons  
NT1 lambda c plus baryons  
NT1 omega c neutral baryons  
NT1 sigma c-2455 baryons  
NT1 xi c neutral baryons  
NT1 xi c plus baryons

**charmed meson resonances**

*INIS: 1988-03-08; ETDE: 1978-01-23*  
(Prior to December 1987 this was a valid descriptor.)

USE charmed mesons

**CHARMED MESONS**

*INIS: 1995-07-17; ETDE: 1988-02-02*  
(Prior to February 1988 CHARMED MESON RESONANCES was used for this concept in ETDE.)

*UF charmed meson resonances*  
*UF d resonances*  
\*BT1 charm particles  
\*BT1 mesons  
NT1 b c mesons  
NT1 d mesons  
NT2 d minus mesons  
NT2 d neutral mesons  
NT3 anti-d neutral mesons  
NT2 d plus mesons  
NT1 d s-2536 mesons  
NT1 d s mesons  
NT1 d\*-2010 mesons  
NT1 d\*2-2460 mesons  
NT1 d\*s-2110 mesons  
NT1 d1-2420 mesons

**CHARMONIUM**

*INIS: 1995-09-08; ETDE: 1976-11-01*  
*A bound state of charm and anticharm quarks.*

\*BT1 mesons  
BT1 quarkonium  
NT1 chi0-3415 mesons  
NT1 chi1-3510 mesons  
NT1 chi2-3555 mesons  
NT1 eta c-2980 mesons  
NT1 eta c-3590 mesons  
NT1 j psi-3097 mesons  
NT1 psi-3685 mesons  
NT1 psi-3770 mesons  
NT1 psi-4040 mesons  
NT1 psi-4160 mesons  
NT1 psi-4415 mesons  
*RT bound state*  
*RT c quarks*  
*RT charm particles*  
*RT flavor model*  
*RT muonium*

**charpak chambers**

USE multiwire proportional chambers

**CHARPY TEST**

\*BT1 destructive testing  
\*BT1 impact tests

**CHARS**

*1991-09-30*  
*UF coal chars*  
BT1 pyrolysis products  
*RT by-products*  
*RT coal*  
*RT coalcon process*  
*RT consol stirred bed process*

**charts**

USE diagrams

**CHATTAHOOCHEE RIVER**

*2000-04-12*

\*BT1 rivers  
*RT alabama*  
*RT florida*  
*RT georgia*

**CHATTANOOGA**

*2000-04-12*

\*BT1 tennessee  
BT1 urban areas

**CHATTANOOGA FORMATION**

*INIS: 1977-03-14; ETDE: 1976-01-23*

*UF chattanooga shale*  
\*BT1 appalachian basin  
BT1 geologic formations  
*RT alabama*  
*RT arkansas*  
*RT black shales*  
*RT geologic strata*  
*RT georgia*  
*RT illinois*  
*RT kansas*  
*RT kentucky*  
*RT mississippi*  
*RT missouri*  
*RT ohio*  
*RT oil shale deposits*  
*RT oklahoma*  
*RT tennessee*  
*RT uranium deposits*  
*RT uranium ores*

**chattanooga shale**

*INIS: 1977-03-14; ETDE: 2002-06-13*

USE chattanooga formation

**CHEESE**

\*BT1 milk products  
*RT whey*

**CHELATES**

BT1 complexes  
*RT chelating agents*

**CHELATING AGENTS**

*1996-10-23*

*UF complexing agents*  
*UF cpdta*  
*UF cyclopentanediaminetetraacetic acid*  
*UF hexamethylenediaminetetraacetic acid*  
*UF hmdta*  
*UF tna*  
*UF trinonylamine*  
*SF chemicals*  
NT1 acetylacetone  
NT1 cdta  
NT1 dcta  
NT1 dedtc  
NT1 deferoxamine  
NT1 dimercaprol  
NT1 dithizone  
NT1 dtpa  
NT1 eddha  
NT1 edta  
NT1 egta  
NT1 hedta  
NT1 heida  
NT1 mdpa  
NT1 nta  
NT1 penicillamine  
NT1 tda  
NT1 tetaha  
NT1 tridodecylamine  
NT1 trioctylamine  
*RT chelates*

*RT crown ethers*  
*RT decontamination*  
*RT drugs*

**CHEMICAL ACTIVATION**

*1999-05-04*

*UF activation (chemical)*  
*RT activation energy*  
*RT deactivation*  
*RT enzyme reactivation*  
*RT excitation*  
*RT metabolic activation*

**chemical activity**

*INIS: 1976-10-07; ETDE: 1977-06-30*

USE thermodynamic activity

**CHEMICAL ANALYSIS**

*UF content analysis*  
*UF destructive chemical analysis*  
*UF determination (chemical)*  
*SF ring oven method*  
NT1 ion selective electrode analysis  
NT1 multi-element analysis  
NT1 nondestructive analysis  
NT2 activation analysis  
NT3 charged-particle activation analysis  
NT3 neutron activation analysis  
NT3 photon activation analysis  
NT2 delayed neutron analysis  
NT2 deuteron microprobe analysis  
NT2 electron microprobe analysis  
NT2 ion microprobe analysis  
NT2 ion scattering analysis  
NT2 nuclear reaction analysis  
NT3 delayed neutron analysis  
NT2 proton microprobe analysis  
NT2 radiation absorption analysis  
NT2 radiation scattering analysis  
NT2 x-ray emission analysis  
NT3 pixe analysis  
NT3 x-ray fluorescence analysis  
NT1 qualitative chemical analysis  
NT1 quantitative chemical analysis  
NT2 gravimetric analysis  
NT3 thermal gravimetric analysis  
NT2 radio-release analysis  
NT2 radiochemical analysis  
NT2 radiometric analysis  
NT2 volumetric analysis  
NT3 titration  
NT4 amperometry  
NT4 iodometry  
NT4 potentiometry  
NT4 thermometric titration  
*RT carbon meters*  
*RT centrifugal fast analyzers*  
*RT crime detection*  
*RT derivatization*  
*RT hydrogen meters*  
*RT icp mass spectroscopy*  
*RT ion probes*  
*RT oxygen meters*  
*RT polarimetry*  
*RT post-irradiation examination*  
*RT structural chemical analysis*  
*RT sulfur meters*  
*RT supercritical fluid chromatography*  
*RT tritium meters*  
*RT water chemistry*

**CHEMICAL ATTRACTANTS**

*INIS: 1992-04-16; ETDE: 1992-06-10*

NT1 pheromone  
*RT insects*  
*RT odor*  
*RT pest control*

**CHEMICAL BONDS**

NT1 double bonds

RT adducts  
 RT binding energy  
 RT bond angle  
 RT bond lengths  
 RT dna adducts

**CHEMICAL COATING**

\*BT1 surface coating  
 NT1 chemical vapor deposition  
 NT1 electrochemical coating  
 NT2 anodization

**CHEMICAL COMPOSITION**

UF abundance (chemical)  
 RT abundance  
 RT ash content  
 RT cosmochemistry  
 RT element abundance  
 RT iodine number  
 RT ionic composition  
 RT quantitative chemical analysis  
 RT stoichiometry  
 RT sulfur content  
 RT water chemistry

**CHEMICAL DECLADDING**

\*BT1 decladding

**CHEMICAL DOSEMETERS**

UF fricke dosimeters  
 \*BT1 dosimeters  
 RT chemical radiation detectors

**chemical effects of nuclear transformations**

INIS: 1993-11-04; ETDE: 2002-06-13  
 USE hot atom chemistry

**CHEMICAL EFFLUENTS**

1975-10-09  
 UF effluents (chemical)  
 \*BT1 chemical wastes  
 RT gaseous wastes  
 RT industrial wastes  
 RT liquid wastes  
 RT nonradioactive waste disposal  
 RT particle resuspension  
 RT pollutants  
 RT pollution abatement  
 RT radioactive effluents  
 RT stack disposal  
 RT water pollution monitors

**CHEMICAL ENGINEERING**

INIS: 1992-02-03; ETDE: 1984-09-05  
 BT1 engineering  
 RT chemistry

**CHEMICAL EXPLOSIONS**

1996-07-23  
 UF cowboy event  
 UF events (chemical explosions)  
 UF middle gust event  
 BT1 explosions  
 RT chemical explosives  
 RT contained explosions  
 RT cratering explosions  
 RT explosive fracturing  
 RT explosive stimulation  
 RT flashback  
 RT underground explosions

**CHEMICAL EXPLOSIVES**

(From May 1975 till March 1997  
 PYROTECHNIC DEVICES was a valid  
 ETDE descriptor. From August 1979 till  
 March 1997 SHAPED CHARGES was a valid  
 ETDE descriptor.)  
 UF high explosives  
 UF pyrotechnic devices  
 UF shaped charges  
 BT1 explosives

NT1 dynamite  
 NT1 nitrocellulose  
 NT1 nitroglycerin  
 NT1 nitromethane  
 NT1 petn  
 NT1 picric acid  
 NT1 tatb  
 NT1 tetryl  
 NT1 tnt  
 RT chemical explosions  
 RT detonation limits

**CHEMICAL FEEDSTOCKS**

INIS: 1992-06-30; ETDE: 1977-03-04  
 UF petrochemical feedstocks  
 \*BT1 raw materials  
 RT inorganic compounds  
 RT organic compounds  
 RT petrochemicals  
 RT pyrolytic gases

**chemical heat pipes**

INIS: 2000-04-12; ETDE: 1982-02-09  
 (Prior to December 1991 this was a valid  
 ETDE descriptor.)  
 USE heat pipes

**CHEMICAL HEAT PUMPS**

INIS: 2000-04-12; ETDE: 1979-09-26  
 Systems for transporting and storing high  
 grade thermal energy by the use of reversible,  
 exothermic/endergonic chemical reactions.  
 UF hycsos  
 BT1 heat pumps  
 RT cooling systems  
 RT heating systems  
 RT thermochemical heat storage

**chemical heat storage**

INIS: 1993-06-04; ETDE: 2002-06-13  
 USE thermochemical heat storage

**CHEMICAL INDUSTRY**

INIS: 1977-10-17; ETDE: 1975-08-19  
 UF chlor-alkali industry  
 BT1 industry  
 RT chemical plants

**CHEMICAL LASERS**

The excitation process involves the making or  
 breaking of a chemical bond.  
 BT1 lasers  
 RT dye lasers

**CHEMICAL LOGGING**

INIS: 2000-04-12; ETDE: 1980-10-28  
 Profiling of the concentration of chemical  
 elements found in various geological  
 formation fluids relative to the depth at which  
 they are found.  
 BT1 well logging

**CHEMICAL MACHINING**

UF chemical milling  
 BT1 machining  
 NT1 electrochemical machining

**chemical milling**

USE chemical machining

**chemical mutagens**

USE mutagens

**CHEMICAL OXYGEN DEMAND**

INIS: 1996-08-05; ETDE: 1978-03-08  
 RT aquatic ecosystems  
 RT biochemical oxygen demand  
 RT liquid wastes  
 RT oxygen

**CHEMICAL PHYSICS**

INIS: 2000-04-12; ETDE: 1984-09-05  
 BT1 physics  
 RT physical chemistry

**CHEMICAL PLANTS**

INIS: 1992-03-05; ETDE: 1978-12-28  
 Industrial facilities operated by the chemical  
 industry.  
 BT1 industrial plants  
 NT1 gasoline plants  
 NT1 petrochemical plants  
 RT biomass conversion plants  
 RT chemical industry  
 RT ethanol plants  
 RT methanol plants  
 RT petrochemicals

**CHEMICAL POLISHING**

\*BT1 polishing

**CHEMICAL PREPARATION**

UF preparation (chemical)  
 BT1 synthesis  
 RT chemical reactions

**CHEMICAL PROPERTIES**

UF properties (chemical)  
 RT affinity  
 RT chemical reactions  
 RT chemistry  
 RT thermal degradation

**CHEMICAL RADIATION DETECTORS**

\*BT1 radiation detectors  
 RT chemical dosimeters

**CHEMICAL RADIATION EFFECTS**

UF radiation hardening (chemical)  
 UF radioinduced reactions  
 UF radiopolymerization  
 BT1 radiation effects  
 NT1 lyoluminescence  
 NT1 radiation curing  
 NT1 radiolysis  
 NT2 autoradiolysis  
 RT host-cell reactivation  
 RT radiation chemistry  
 RT strand breaks

**CHEMICAL REACTION KINETICS**

\*BT1 reaction kinetics  
 NT1 combustion kinetics  
 RT activation energy  
 RT arrhenius equation  
 RT bifurcation  
 RT catalysis  
 RT enzyme activity  
 RT limit cycle  
 RT reaction intermediates

**CHEMICAL REACTION YIELD**

UF yield (chemical reaction)  
 BT1 yields  
 RT chemical reactions

**CHEMICAL REACTIONS**

UF ionic reactions  
 NT1 acylation  
 NT2 acetylation  
 NT2 benzoylation  
 NT1 alkylation  
 NT1 amination  
 NT1 aromatization  
 NT1 arylation  
 NT1 bosch process  
 NT1 carbonylation  
 NT1 carboxylation  
 NT1 chemisorption  
 NT1 claisen condensation  
 NT1 corrosion

- NT2 crevice corrosion  
 NT2 electrochemical corrosion  
 NT2 fretting corrosion  
 NT2 intergranular corrosion  
 NT2 nodular corrosion  
 NT2 pitting corrosion  
 NT2 stress corrosion  
 NT1 cyclization  
 NT1 dealkylation  
 NT1 deamination  
 NT1 decarboxylation  
 NT1 decarburization  
 NT1 decomposition  
   NT2 autolysis  
     NT3 autoradiolysis  
 NT2 biodegradation  
 NT2 carbonization  
   NT3 coking  
   NT3 electrocarbonization  
 NT2 depolymerization  
 NT2 destructive distillation  
 NT2 glycolysis  
 NT2 hemolysis  
 NT2 photolysis  
   NT3 biophotolysis  
 NT2 proteolysis  
   NT3 fibrinolysis  
 NT2 pyrolysis  
   NT3 calcination  
   NT3 cracking  
     NT4 catalytic cracking  
     NT4 hydrocracking  
     NT4 thermal cracking  
   NT3 flash hydrolysis process  
 NT2 radiolysis  
   NT3 autoradiolysis  
 NT2 retorting  
   NT3 in-situ retorting  
 NT2 solvolysis  
   NT3 acetolysis  
   NT3 ammonolysis  
   NT3 hydrolysis  
     NT4 acid hydrolysis  
     NT4 alkaline hydrolysis  
     NT4 autohydrolysis  
     NT4 enzymatic hydrolysis  
     NT4 saccharification  
     NT4 saponification  
 NT1 dehalogenation  
   NT2 dechlorination  
   NT2 deiodination  
 NT1 dehydridation  
 NT1 dehydrocyclization  
 NT1 dehydrogenation  
 NT1 denitration  
 NT1 denitrification  
   NT2 combined soxnox processes  
   NT3 noxso process  
   NT2 selective catalytic reduction  
 NT1 dephenolization  
 NT1 derivatization  
 NT1 desulfurization  
   NT2 adip process  
   NT2 alkalized alumina process  
   NT2 ammonia-ammonium bisulfate process  
   NT2 battelle hydrothermal coal process  
   NT2 beavon process  
   NT2 benfield process  
   NT2 bergbauforschung process  
   NT2 cabf process  
   NT2 cea-adl dual alkali process  
   NT2 chiyoda thoroughbred process  
   NT2 citrate process  
   NT2 claus process  
   NT2 cng process  
   NT2 combined soxnox processes  
     NT3 noxso process  
   NT2 consol fgd process  
   NT2 fmc double alkali process  
   NT2 giammarco vetroccke sulfur process  
   NT2 girbotol process  
   NT2 gravimelt process  
   NT2 gulf hds process  
   NT2 holmes-stretford process  
   NT2 jpl process  
   NT2 ledgemont process  
   NT2 lime-limestone wet scrubbing processes  
     NT3 bischoff process  
   NT2 magnesium slurry scrubbing process  
   NT2 meyers process  
   NT2 molecular sieve process  
   NT2 otto process  
   NT2 penelec process  
   NT2 perox process  
   NT2 purisol process  
   NT2 rectisol process  
   NT2 resox process  
   NT2 ric process  
   NT2 saarberg-holter process  
   NT2 scot process  
   NT2 selexol process  
   NT2 shell-uop copper oxide process  
   NT2 solinox process  
   NT2 sorbent injection processes  
   NT2 soxal process  
   NT2 stone and webster ionics process  
   NT2 stretford process  
   NT2 sulf-x process  
   NT2 sulfiban process  
   NT2 sulfinol process  
   NT2 sulfreen process  
   NT2 takahax process  
   NT2 thiosorbic process  
   NT2 trw process  
   NT2 ucap process  
   NT2 unisulf process  
   NT2 vacuum carbonate process  
   NT2 w-1 sulfur dioxide recovery process  
   NT2 walther process  
 NT1 deuteration  
 NT1 diazotization  
 NT1 diels-alder reaction  
 NT1 esterification  
 NT1 fischer-tropsch synthesis  
 NT1 friedel-crafts reaction  
 NT1 halogenation  
   NT2 astatination  
   NT2 bromination  
   NT2 chlorination  
     NT3 sulfochlorination  
   NT2 fluorination  
   NT2 iodination  
 NT1 hydridation  
 NT1 hydrogenation  
   NT2 gulf hds process  
 NT1 hydroxylation  
 NT1 isomerization  
 NT1 methanation  
 NT1 methylation  
 NT1 nitration  
 NT1 nitridation  
 NT1 nitrification  
 NT1 oxidation  
   NT2 combustion  
     NT3 cocombustion  
     NT3 fluidized-bed combustion  
     NT3 in-situ combustion  
     NT3 oxyfuel combustion process  
     NT3 pulse combustion  
     NT3 reverse combustion  
     NT3 spontaneous combustion  
     NT3 staged combustion  
   NT2 roasting  
 NT1 ozonization  
 NT1 partial oxidation processes  
 NT1 phosphorylation  
 NT1 photochemical reactions  
   NT2 photolysis  
     NT3 biophotolysis  
   NT2 photosynthesis  
 NT1 polymerization  
   NT2 copolymerization  
   NT2 cross-linking  
   NT2 dimerization  
   NT2 telomerization  
 NT1 redox reactions  
 NT1 reduction  
   NT2 bomb reduction  
   NT2 selective catalytic reduction  
   NT2 thermite process  
 NT1 reformer processes  
   NT2 autothermal reformer processes  
   NT2 catalytic reforming  
   NT2 steam reformer processes  
 NT1 steam-iron process  
 NT1 sulfation  
 NT1 sulfidation  
 NT1 sulfonation  
   NT2 sulfochlorination  
 NT1 water gas processes  
 RT acidification  
 RT affinity  
 RT catalysis  
 RT chemical preparation  
 RT chemical properties  
 RT chemical reaction yield  
 RT chemical reactors  
 RT chemical state  
 RT chemistry  
 RT equilibrium  
 RT fermentation  
 RT fluidized beds  
 RT fuel-cladding interactions  
 RT fuel-coolant interactions  
 RT hydrogen transfer  
 RT isotopic exchange  
 RT molten metal-water reactions  
 RT phosphoenolpyruvate  
 RT reaction intermediates  
 RT rock-fluid interactions  
 RT seed-slag interactions  
 RT stoichiometry  
 RT thermodynamic activity  
 RT waste-rock interactions

**CHEMICAL REACTORS**

INIS: 2000-07-11; ETDE: 1975-08-19

UF vessels (chemical reactions)

NT1 retorts

RT bioreactors

RT chemical reactions

RT containers

RT fluidized beds

RT loading rate

**CHEMICAL SHIFT**

RT nuclear magnetic resonance

RT spectral shift

**chemical shimming**

USE fluid poison control

**CHEMICAL SPILLS**

INIS: 1991-09-30; ETDE: 1980-02-11

BT1 accidents

RT chemical wastes

RT gas spills

RT hazardous materials spills

RT natural attenuation

RT oil spills

**CHEMICAL STATE**

UF speciation (chemical)

RT anions

RT cations

RT chemical reactions

RT recoils

## CHEMICAL VAPOR DEPOSITION

\*BT1 chemical coating  
RT vapor deposited coatings  
RT vapor phase epitaxy  
RT vapor plating

## CHEMICAL WARFARE

INIS: 1992-03-16; ETDE: 1986-02-03  
BT1 warfare  
RT chemical warfare agents

## CHEMICAL WARFARE AGENTS

INIS: 1999-03-02; ETDE: 1986-02-03  
BT1 weapons  
RT chemical warfare  
RT toxic materials

## CHEMICAL WASTES

INIS: 1986-07-09; ETDE: 1982-03-11  
For wastes which are of concern because of their chemical properties. See also RADIOACTIVE WASTES.

UF waste chemicals  
\*BT1 nonradioactive wastes  
NT1 chemical effluents  
RT chemical spills  
RT hazardous materials  
RT industrial wastes  
RT municipal wastes

## chemically active fluidized bed process

2000-04-12  
USE cafb process

## chemicals

See specific compounds or classes of compounds, e.g., CARCINOGENS, DETERGENTS, PLASTICIZERS, and ORGANIC COMPOUNDS.

SEE additives  
SEE chelating agents  
SEE detergents  
SEE developers  
SEE dyes  
SEE indicators  
SEE inorganic compounds  
SEE organic compounds  
SEE petrochemicals

## chemico process

2000-04-12  
Process using an aqueous suspension of magnesium oxide for removal of sulfur dioxide from flue gas.  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE desulfurization

## CHEMILUMINESCENCE

1999-05-04  
\*BT1 luminescence  
RT luminol

## CHEMISORPTION

Dissolution or adsorption followed by chemical reaction.

BT1 chemical reactions  
BT1 separation processes  
BT1 sorption  
RT adsorbents  
RT adsorption  
RT hydrogen storage  
RT scrubbing

## CHEMISTRY

NT1 atmospheric chemistry  
NT1 biochemistry  
NT2 blood chemistry  
NT2 cytochemistry

NT1 cosmochemistry  
NT1 electrochemistry  
NT1 geochemistry  
NT2 biogeochemistry  
NT1 nuclear chemistry  
NT1 petrochemistry  
NT1 photochemistry  
NT2 solar photochemistry  
NT1 physical chemistry  
NT1 radiation chemistry  
NT1 radiochemistry  
NT2 hot atom chemistry  
NT3 szilard-chalmers reaction  
NT1 soil chemistry  
NT1 water chemistry  
NT2 acid neutralizing capacity  
RT chemical engineering  
RT chemical properties  
RT chemical reactions  
RT qualitative chemical analysis  
RT quantitative chemical analysis  
RT stoichiometry

## chemistry (water)

2000-04-12  
USE water chemistry

## CHEMONUCLEAR REACTORS

\*BT1 irradiation reactors

## CHEMORECEPTORS

RT flavor  
RT insects  
RT odor  
RT sense organs

## CHEMOSTERILANTS

A substance producing irreversible sterility in a reproductive system.

RT alkylating agents  
RT antimetabolites  
RT sterilization

## CHEMOTHERAPY

UF pharmacotherapy  
\*BT1 therapy  
RT antiandrogens  
RT antimetabolic drugs  
RT antineoplastic drugs  
RT combined therapy  
RT drugs  
RT liposomes  
RT misonidazole  
RT neocarcinostatin

## chemsweet process

INIS: 2000-04-12; ETDE: 1980-05-06  
Batch process for sweetening low-value sour natural gas using zinc compounds.  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE desulfurization

## CHENOPODIACEAE

INIS: 1992-01-08; ETDE: 1988-04-15  
\*BT1 magnoliopsida

## cheralite

INIS: 1984-04-04; ETDE: 2003-01-03  
(Prior to January 2003 QUARTZITES was used for this concept.)  
USE monazites

## CHERENKOV COUNTERS

UF cherenkov detectors  
\*BT1 radiation detectors  
RT cherenkov counting  
RT stanford linear collider detector

## CHERENKOV COUNTING

INIS: 1993-05-06; ETDE: 1975-10-28  
BT1 counting techniques

RT cherenkov counters

## cherenkov detectors

USE cherenkov counters

## CHERENKOV RADIATION

UF vavilov-cherenkov radiation  
\*BT1 electromagnetic radiation  
RT light cone

## CHERNOBYLSK-1 REACTOR

INIS: 1984-08-23; ETDE: 1984-09-20  
Ukraine.

\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

## CHERNOBYLSK-2 REACTOR

INIS: 1984-08-23; ETDE: 1984-09-20  
Ukraine.

\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

## CHERNOBYLSK-3 REACTOR

INIS: 1984-08-23; ETDE: 1984-09-20  
Ukraine.

\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

## CHERNOBYLSK-4 REACTOR

INIS: 1984-08-23; ETDE: 1984-09-20  
Ukraine.

\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors  
RT pripet river

## chernoff faces

INIS: 2000-04-12; ETDE: 1979-06-06  
Stylized faces used in analysis of many-dimensional data sets.  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE computer graphics  
USE data processing

## CHEROKEE-1 REACTOR

Duke Power Co., Blacksburg, South Carolina, USA. Canceled in 1983 before construction began.  
\*BT1 pwr type reactors

## CHEROKEE-2 REACTOR

Duke Power Co., Blacksburg, South Carolina, USA. Canceled in 1982 before construction began.  
\*BT1 pwr type reactors

## CHEROKEE-3 REACTOR

Duke Power Co., Blacksburg, South Carolina, USA. Canceled in 1982 before construction began.  
\*BT1 pwr type reactors

## CHERRIES

\*BT1 fruits  
RT fruit trees  
RT rosaceae

## cherry fruit fly

INIS: 1996-07-23; ETDE: 1976-01-26  
(From January 1976 till March 1997 RHAGOLETIS CERASI was used for this concept in ETDE.)  
USE fruit flies

**CHERT**

2000-04-12

\*BT1 sedimentary rocks

**CHESAPEAKE BAY**

\*BT1 atlantic ocean

\*BT1 bays

RT maryland

RT mid-atlantic bight

RT virginia

**cheshire event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**CHEST**

1999-04-06

UF thorax

BT1 body

NT1 mediastinum

RT diaphragm

RT heart

RT lungs

RT mammary glands

RT pleura

RT respiratory system

RT thymus

**CHESTNUT TREES**

INIS: 1992-01-08; ETDE: 1978-09-11

\*BT1 magnoliopsida

\*BT1 trees

**CHESTNUTS**

INIS: 1982-01-13; ETDE: 1982-02-11

\*BT1 nuts

**chevron coal liquefaction process**

INIS: 2000-04-12; ETDE: 1983-01-21

Processing sequence uses two separate, but close-coupled reaction zones. The first is used to contain and control dissolution reactions. The second contains and controls hydrofining reactions.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal liquefaction

**CHEW-LOW METHOD**

BT1 calculation methods

RT strong interactions

**chi-2800 resonances**

INIS: 1988-03-08; ETDE: 1979-10-03

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**chi-3410 resonances**

INIS: 1987-12-21; ETDE: 1976-08-24

(Prior to December 1987 this was a valid descriptor.)

USE chi0-3415 mesons

**chi-3455 resonances**

INIS: 1988-03-08; ETDE: 1977-07-23

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**chi-3500 resonances**

INIS: 1987-12-21; ETDE: 1977-01-28

(Prior to December 1987 this was a valid descriptor.)

USE chi1-3510 mesons

**chi-3550 resonances**

INIS: 1987-12-21; ETDE: 1977-01-28

(Prior to December 1987 this was a valid descriptor.)

USE chi2-3555 mesons

**CHI B0-10235 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 bottomonium

**CHI B0-9860 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 bottomonium

**CHI B1-10255 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 bottomonium

**CHI B1-9890 MESONS**

1995-08-07

(Until July 1995 this concept was indexed by

CHI B1-9895 MESONS.)

UF chi b1-9895 mesons

\*BT1 axial vector mesons

\*BT1 bottomonium

**chi b1-9895 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02

(Until July 1995 this was a valid term.)

USE chi b1-9890 mesons

**CHI B2-10270 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 bottomonium

**CHI B2-9915 MESONS**

INIS: 1995-08-07; ETDE: 1988-02-02

\*BT1 bottomonium

\*BT1 tensor mesons

**chi resonances**

INIS: 1988-03-08; ETDE: 1977-07-23

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**CHI0-3415 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by CHI-3410 RESONANCES.)

UF chi-3410 resonances

\*BT1 charmonium

\*BT1 scalar mesons

**CHI1-3510 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by CHI-3500 RESONANCES.)

UF chi-3500 resonances

\*BT1 axial vector mesons

\*BT1 charmonium

**CHI2-3555 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by CHI-3550 RESONANCES.)

UF chi-3550 resonances

\*BT1 charmonium

\*BT1 tensor mesons

**chiberta event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**CHICAGO**

INIS: 1992-07-08; ETDE: 1977-10-20

\*BT1 illinois

BT1 urban areas

**chicago cyclotron**

1994-08-22

(Prior to June 1994, this was a valid ETDE descriptor.)

USE isochronous cyclotrons

**chicago pile-2 reactor**

USE cp-2 reactor

**chicago synchrocyclotron**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE synchrocyclotrons

**CHICKENS**

1996-07-08

UF hens

\*BT1 fowl

RT ascaridae

**CHILDREN**

BT1 age groups

\*BT1 man

NT1 infants

RT adolescents

RT education

RT juveniles

RT life cycle

RT pediatrics

RT progeny

**CHILE**

1997-06-17

BT1 developing countries

\*BT1 south america

RT andes

RT el tatio geothermal field

**CHILEAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**CHIMERAS**

BT1 mosaicism

NT1 radiation chimeras

RT immunity

RT spleen colony formation

RT transplants

**CHIMNEYS**

1975-08-22

For gas disposal use STACKS.

NT1 solar chimneys

RT cavities

RT exhaust systems

RT explosive stimulation

RT fireplaces

RT underground explosions

**CHINA**

UF inner mongolia

UF peoples republic of china

BT1 asia

NT1 hong kong

NT1 taiwan

NT1 tibet

RT centrally planned economies

RT ciae

RT yangtze river

RT yellow river

**china clay**

USE kaolin

**china experimental fast reactor**

INIS: 2000-02-22; ETDE: 2000-10-04

USE cefr reactor

**china institute of atomic energy**

INIS: 1992-08-05; ETDE: 1992-09-10

USE ciae

**CHINA SEA**

INIS: 1992-01-16; ETDE: 1981-03-16

UF east china sea

UF south china sea

\*BT1 pacific ocean

**chinese bean oil**

USE soybean oil

**chinese hamster**

USE hamsters

**chinese hamster ovary cells**

INIS: 1984-01-18; ETDE: 1983-09-15

USE cho cells

**CHINESE NNSA**

INIS: 1993-03-17; ETDE: 1993-04-16

National Nuclear Safety Administration.

\*BT1 chinese organizations

**CHINESE ORGANIZATIONS**

INIS: 1987-05-26; ETDE: 1980-10-07

BT1 national organizations

NT1 chinese nnsa

NT1 ciae

**chinese tallow tree**

INIS: 2000-04-12; ETDE: 1980-04-14

A hydrocarbon-producing plant; possible source of synthetic petroleum.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE euphorbia

**CHINON-1 REACTOR**

Avoine, Chinon, France.

UF edf-1 reactor

\*BT1 carbon dioxide cooled reactors

\*BT1 gcr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**CHINON-2 REACTOR**

Avoine, Chinon, France.

UF edf-2 reactor

\*BT1 carbon dioxide cooled reactors

\*BT1 gcr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**CHINON-3 REACTOR**

Avoine, Chinon, France.

UF edf-3 reactor

\*BT1 carbon dioxide cooled reactors

\*BT1 gcr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**CHINON-B1 REACTOR**

1995-02-15

\*BT1 pwr type reactors

**chinone**

USE benzoquinones

**CHINSHAN-1 REACTOR**

INIS: 1991-11-06; ETDE: 1992-01-31

Taipei, Taiwan.

(This descriptor was spelled QINSHAN-1 REACTOR for items input in 1991, and prior to 1991 was spelled CHINSAN-1 REACTOR.)

\*BT1 bwr type reactors

**CHINSHAN-2 REACTOR**

INIS: 1991-11-06; ETDE: 1992-01-31

Taipei, Taiwan.

(This descriptor was spelled QINSHAN-2 REACTOR for items input in 1991, and prior to 1991 was spelled CHINSAN-2 REACTOR.)

\*BT1 bwr type reactors

**chipmunks**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE rodents

**chiral molecules**

INIS: 2000-04-12; ETDE: 1976-02-23

USE enantiomorphs

**CHIRAL SYMMETRY**

BT1 symmetry

RT chirality

**CHIRALITY**

BT1 particle properties

RT angular momentum

RT chiral symmetry

RT helicity

RT quantum mechanics

RT spin

**CHITIN**

\*BT1 mucopolysaccharides

RT glucosamine

RT polyacetals

**CHIYODA THOROUGHbred PROCESS**

INIS: 2000-04-12; ETDE: 1977-12-22

Wei process capable of high SOX removal from flue gas producing gypsum for resale or disposal.

\*BT1 desulfurization

RT waste processing

**CHLAMYDOMONAS**

\*BT1 chlorophycota

\*BT1 unicellular algae

**chlor-alkali industry**

INIS: 2000-04-12; ETDE: 1981-04-17

USE chemical industry

USE chlorine

USE sodium carbonates

USE sodium hydroxides

**CHLORAL**

UF trichloroacetaldehyde

\*BT1 aldehydes

\*BT1 organic chlorine compounds

RT acetaldehyde

**CHLORAMBUCIL**

1993-08-03

\*BT1 amines

\*BT1 antineoplastic drugs

\*BT1 monocarboxylic acids

\*BT1 organic chlorine compounds

**chloramine-b**

USE chloramines

**chloramine-t**

USE chloramines

**CHLORAMINES**

UF chloramine-b

UF chloramine-t

\*BT1 amines

\*BT1 organic chlorine compounds

RT amides

RT sulfonic acids

**CHLORAMPHENICOL**

\*BT1 antibiotics

**CHLORANIL**

UF tetrachlorobenzoquinone

\*BT1 benzoquinones

\*BT1 organic chlorine compounds

RT chloranilic acid

**CHLORANILIC ACID**

\*BT1 benzoquinones

RT chloranil

RT organic acids

**CHLORATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 chlorine compounds

BT1 oxygen compounds

RT chloric acid

**CHLORELLA**

\*BT1 chlorophycota

\*BT1 unicellular algae

**CHLORIC ACID**

\*BT1 chlorine compounds

\*BT1 inorganic acids

BT1 oxygen compounds

RT chlorates

**CHLORIDE VOLATILITY PROCESS**

\*BT1 pyrometallurgy

\*BT1 reprocessing

RT distillation

RT refining

RT volatility

**CHLORIDES**

1996-07-18

\*BT1 chlorine compounds

\*BT1 halides

NT1 actinium chlorides

NT1 aluminium chlorides

NT1 americium chlorides

NT1 ammonium chlorides

NT1 antimony chlorides

NT1 argon chlorides

NT1 arsenic chlorides

NT1 astatine chlorides

NT1 barium chlorides

NT1 berkelium chlorides

NT1 beryllium chlorides

NT1 bismuth chlorides

NT1 boron chlorides

NT1 bromine chlorides

NT1 cadmium chlorides

NT1 calcium chlorides

NT1 californium chlorides

NT1 cerium chlorides

NT1 cesium chlorides

NT1 chromium chlorides

NT1 cobalt chlorides

NT1 copper chlorides

NT1 curium chlorides

NT1 dysprosium chlorides

NT1 einsteinium chlorides

NT1 erbium chlorides

NT1 europium chlorides

NT1 fermium chlorides

NT1 francium chlorides

NT1 gadolinium chlorides

NT1 gallium chlorides

NT1 germanium chlorides

NT1 gold chlorides

NT1 hafnium chlorides

NT1 helium chlorides

NT1 holmium chlorides

NT1 indium chlorides

NT1 iodine chlorides

NT1 iridium chlorides

NT1 iron chlorides

NT1 krypton chlorides

NT1 lanthanum chlorides

NT1 lead chlorides

NT1 lithium chlorides

NT1 lutetium chlorides

NT1 magnesium chlorides

NT1 manganese chlorides

NT1 mercury chlorides

NT1 methylene blue

NT1 molybdenum chlorides

NT1 neodymium chlorides  
 NT1 neon chlorides  
 NT1 neptunium chlorides  
 NT1 nickel chlorides  
 NT1 niobium chlorides  
 NT1 nitrogen chlorides  
 NT1 osmium chlorides  
 NT1 palladium chlorides  
 NT1 phosphorus chlorides  
 NT1 platinum chlorides  
 NT1 plutonium chlorides  
 NT1 polonium chlorides  
 NT1 potassium chlorides  
 NT1 praseodymium chlorides  
 NT1 promethium chlorides  
 NT1 protactinium chlorides  
 NT1 radium chlorides  
 NT1 rhenium chlorides  
 NT1 rhodium chlorides  
 NT1 rubidium chlorides  
 NT1 ruthenium chlorides  
 NT1 rutherfordium chlorides  
 NT1 samarium chlorides  
 NT1 scandium chlorides  
 NT1 selenium chlorides  
 NT1 silicon chlorides  
 NT1 silver chlorides  
 NT1 sodium chlorides  
 NT1 strontium chlorides  
 NT1 sulfur chlorides  
 NT1 tantalum chlorides  
 NT1 technetium chlorides  
 NT1 tellurium chlorides  
 NT1 terbium chlorides  
 NT1 tetrazolium  
 NT1 thallium chlorides  
 NT1 thionyl chlorides  
 NT1 thorium chlorides  
 NT1 thulium chlorides  
 NT1 tin chlorides  
 NT1 titanium chlorides  
 NT1 tungsten chlorides  
 NT1 uranium chlorides  
 NT1 uranyl chlorides  
 NT1 vanadium chlorides  
 NT1 xenon chlorides  
 NT1 ytterbium chlorides  
 NT1 yttrium chlorides  
 NT1 zinc chlorides  
 NT1 zirconium chlorides  
 RT chlorine additions  
 RT hydrochloric acid  
 RT oxychlorides

**CHLORIMET**

2000-04-12

\*BT1 molybdenum alloys  
 \*BT1 nickel base alloys

**CHLORINATED ALICYCLIC HYDROCARBONS**

2000-04-12

\*BT1 halogenated alicyclic hydrocarbons  
 \*BT1 organic chlorine compounds  
 NT1 lindane

**CHLORINATED ALIPHATIC HYDROCARBONS**

1991-09-30

(Prior to October 1991, this concept was indexed by ORGANIC CHLORINE COMPOUNDS.)

\*BT1 halogenated aliphatic hydrocarbons  
 \*BT1 organic chlorine compounds  
 NT1 carbon tetrachloride  
 NT1 chloroform  
 NT1 methyl chloride  
 NT1 pvc  
 NT1 vinyl chloride  
 RT chlorofluorocarbons

**CHLORINATED AROMATIC HYDROCARBONS**

1991-10-01

\*BT1 halogenated aromatic hydrocarbons  
 \*BT1 organic chlorine compounds  
 NT1 aldrin  
 NT1 polychlorinated biphenyls

**chlorinated hydrocarbons**

ETDE: 2002-06-13

USE organic chlorine compounds

**CHLORINATION**

\*BT1 halogenation  
 NT1 sulfochlorination  
 RT dechlorination

**CHLORINE**

UF chlor-alkali industry

UF chlorine chlorides

\*BT1 halogens

**CHLORINE 28**

2007-01-24

\*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes

**CHLORINE 29**

2007-01-24

\*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes

**CHLORINE 30**

2007-01-24

\*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes

**CHLORINE 31**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**CHLORINE 32**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**CHLORINE 33**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**CHLORINE 34**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**CHLORINE 35**

\*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes  
 RT chlorine 35 beams

**CHLORINE 35 BEAMS**

1975-11-27

\*BT1 ion beams  
 RT chlorine 35

**CHLORINE 35 REACTIONS**

\*BT1 heavy ion reactions

**CHLORINE 35 TARGET**

ETDE: 1976-07-09

BT1 targets

**CHLORINE 36**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 years living radioisotopes

**CHLORINE 36 TARGET**

INIS: 1985-07-22; ETDE: 1985-08-08

BT1 targets

**CHLORINE 37**

\*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes  
 RT chlorine 37 reactions

**CHLORINE 37 BEAMS**

1993-08-03

\*BT1 ion beams

**CHLORINE 37 REACTIONS**

ETDE: 1975-09-11

\*BT1 heavy ion reactions  
 RT chlorine 37

**CHLORINE 37 TARGET**

ETDE: 1976-07-09

BT1 targets

**CHLORINE 38**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**CHLORINE 39**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**CHLORINE 39 BEAMS**

INIS: 1986-12-09; ETDE: 1987-02-24

\*BT1 radioactive ion beams

**CHLORINE 40**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**CHLORINE 41**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**CHLORINE 42**

\*BT1 chlorine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei



**CHLORINE 43***INIS: 1977-03-01; ETDE: 1976-12-15*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CHLORINE 44***INIS: 1976-03-17; ETDE: 1976-02-19*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**CHLORINE 45***INIS: 1986-04-02; ETDE: 1986-07-03*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CHLORINE 46***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**CHLORINE 47***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CHLORINE 48***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**CHLORINE 49***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CHLORINE 50***2007-01-24*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**CHLORINE 51***INIS: 1990-04-19; ETDE: 1990-05-16*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CHLORINE ADDITIONS**

- RT* chlorides
- RT* crystal doping
- RT* doped materials

**chlorine bromides**

- USE bromine chlorides

**chlorine chlorides**

- USE chlorine

**CHLORINE COMPLEXES**

- BT1 complexes

**CHLORINE COMPOUNDS**

- UF* chlorites
- BT1 halogen compounds
- NT1 chlorates
- NT1 chloric acid
- NT1 chlorides
  - NT2 actinium chlorides
  - NT2 aluminium chlorides
  - NT2 americium chlorides
  - NT2 ammonium chlorides
  - NT2 antimony chlorides
  - NT2 argon chlorides
  - NT2 arsenic chlorides

- NT2 astatine chlorides
- NT2 barium chlorides
- NT2 berkelium chlorides
- NT2 beryllium chlorides
- NT2 bismuth chlorides
- NT2 boron chlorides
- NT2 bromine chlorides
- NT2 cadmium chlorides
- NT2 calcium chlorides
- NT2 californium chlorides
- NT2 cerium chlorides
- NT2 cesium chlorides
- NT2 chromium chlorides
- NT2 cobalt chlorides
- NT2 copper chlorides
- NT2 curium chlorides
- NT2 dysprosium chlorides
- NT2 einsteinium chlorides
- NT2 erbium chlorides
- NT2 europium chlorides
- NT2 fermium chlorides
- NT2 francium chlorides
- NT2 gadolinium chlorides
- NT2 gallium chlorides
- NT2 germanium chlorides
- NT2 gold chlorides
- NT2 hafnium chlorides
- NT2 helium chlorides
- NT2 holmium chlorides
- NT2 indium chlorides
- NT2 iodine chlorides
- NT2 iridium chlorides
- NT2 iron chlorides
- NT2 krypton chlorides
- NT2 lanthanum chlorides
- NT2 lead chlorides
- NT2 lithium chlorides
- NT2 lutetium chlorides
- NT2 magnesium chlorides
- NT2 manganese chlorides
- NT2 mercury chlorides
- NT2 methylene blue
- NT2 molybdenum chlorides
- NT2 neodymium chlorides
- NT2 neon chlorides
- NT2 neptunium chlorides
- NT2 nickel chlorides
- NT2 niobium chlorides
- NT2 nitrogen chlorides
- NT2 osmium chlorides
- NT2 palladium chlorides
- NT2 phosphorus chlorides
- NT2 platinum chlorides
- NT2 plutonium chlorides
- NT2 polonium chlorides
- NT2 potassium chlorides
- NT2 praseodymium chlorides
- NT2 promethium chlorides
- NT2 protactinium chlorides
- NT2 radium chlorides
- NT2 rhenium chlorides
- NT2 rhodium chlorides
- NT2 rubidium chlorides
- NT2 ruthenium chlorides
- NT2 rutherfordium chlorides
- NT2 samarium chlorides
- NT2 scandium chlorides
- NT2 selenium chlorides
- NT2 silicon chlorides
- NT2 silver chlorides
- NT2 sodium chlorides
- NT2 strontium chlorides
- NT2 sulfur chlorides
- NT2 tantalum chlorides
- NT2 technetium chlorides
- NT2 tellurium chlorides
- NT2 terbium chlorides
- NT2 tetrazolium
- NT2 thallium chlorides

- NT2 thionyl chlorides
- NT2 thorium chlorides
- NT2 thulium chlorides
- NT2 tin chlorides
- NT2 titanium chlorides
- NT2 tungsten chlorides
- NT2 uranium chlorides
- NT2 uranyl chlorides
- NT2 vanadium chlorides
- NT2 xenon chlorides
- NT2 ytterbium chlorides
- NT2 yttrium chlorides
- NT2 zinc chlorides
- NT2 zirconium chlorides
- NT1 chlorine fluorides
- NT1 chlorine nitrates
- NT1 chlorine oxides
- NT1 chlorous acid
- NT1 hydrochloric acid
- NT1 hypochlorous acid
- NT1 oxychlorides
- NT1 perchlorates
  - NT2 aluminium perchlorates
  - NT2 americium perchlorates
  - NT2 ammonium perchlorates
  - NT2 barium perchlorates
  - NT2 cadmium perchlorates
  - NT2 calcium perchlorates
  - NT2 cerium perchlorates
  - NT2 cesium perchlorates
  - NT2 chromium perchlorates
  - NT2 cobalt perchlorates
  - NT2 copper perchlorates
  - NT2 dysprosium perchlorates
  - NT2 erbium perchlorates
  - NT2 europium perchlorates
  - NT2 gadolinium perchlorates
  - NT2 hafnium perchlorates
  - NT2 holmium perchlorates
  - NT2 indium perchlorates
  - NT2 iron perchlorates
  - NT2 lanthanum perchlorates
  - NT2 lead perchlorates
  - NT2 lithium perchlorates
  - NT2 lutetium perchlorates
  - NT2 magnesium perchlorates
  - NT2 manganese perchlorates
  - NT2 mercury perchlorates
  - NT2 neodymium perchlorates
  - NT2 neptunium perchlorates
  - NT2 plutonium perchlorates
  - NT2 potassium perchlorates
  - NT2 praseodymium perchlorates
  - NT2 rubidium perchlorates
  - NT2 samarium perchlorates
  - NT2 scandium perchlorates
  - NT2 silver perchlorates
  - NT2 sodium perchlorates
  - NT2 strontium perchlorates
  - NT2 terbium perchlorates
  - NT2 thallium perchlorates
  - NT2 thorium perchlorates
  - NT2 thulium perchlorates
  - NT2 uranium perchlorates
  - NT2 uranyl perchlorates
  - NT2 ytterbium perchlorates
  - NT2 yttrium perchlorates
  - NT2 zinc perchlorates
  - NT2 zirconium perchlorates
- NT1 perchloric acid
- RT* organic chlorine compounds

**CHLORINE FLUORIDES**

- UF* fluorine chlorides
- \*BT1 chlorine compounds
- \*BT1 fluorides

**chlorine iodides**

- USE iodine chlorides

**CHLORINE IONS**

\*BT1 ions

**CHLORINE ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 chlorine 28  
 NT1 chlorine 29  
 NT1 chlorine 30  
 NT1 chlorine 31  
 NT1 chlorine 32  
 NT1 chlorine 33  
 NT1 chlorine 34  
 NT1 chlorine 35  
 NT1 chlorine 36  
 NT1 chlorine 37  
 NT1 chlorine 38  
 NT1 chlorine 39  
 NT1 chlorine 40  
 NT1 chlorine 41  
 NT1 chlorine 42  
 NT1 chlorine 43  
 NT1 chlorine 44  
 NT1 chlorine 45  
 NT1 chlorine 46  
 NT1 chlorine 47  
 NT1 chlorine 48  
 NT1 chlorine 49  
 NT1 chlorine 50  
 NT1 chlorine 51

**chlorine logs**

INIS: 2000-04-12; ETDE: 1979-03-27

USE neutron-gamma logging

**CHLORINE NITRATES**

INIS: 2000-04-12; ETDE: 1989-10-24

\*BT1 chlorine compounds  
 \*BT1 nitrates

**CHLORINE OXIDES**

\*BT1 chlorine compounds  
 \*BT1 oxides  
 RT oxychlorides

**CHLORINS**

INIS: 2000-04-12; ETDE: 1981-07-18

\*BT1 porphyrins  
 RT cytochromes

**CHLORITE MINERALS**

Greenish, platyhydrous monoclinic silicates of aluminum, ferrous iron, and magnesium.

UF chlorites (minerals)

\*BT1 silicate minerals

**chlorites**

INIS: 1984-04-25; ETDE: 2002-06-13

Salts of chlorous acid.

USE chlorine compounds  
 USE oxygen compounds

**chlorites (minerals)**

INIS: 1984-04-25; ETDE: 2002-06-13

USE chlorite minerals

**chlormerodrin**

ETDE: 1981-04-20

USE neohydrin

**chlorobutadiene**

USE neoprene

**CHLOROFLUOROCARBONS**

INIS: 1992-06-19; ETDE: 1992-04-01

UF cfc

\*BT1 organic chlorine compounds  
 \*BT1 organic fluorine compounds  
 RT chlorinated aliphatic hydrocarbons  
 RT fluorinated aliphatic hydrocarbons  
 RT freons  
 RT greenhouse gases

RT ozone layer

RT refrigerants

**CHLOROFORM**

UF trichloromethane

\*BT1 chlorinated aliphatic hydrocarbons

RT anesthetics

RT methane

RT organic solvents

**chloromethane**

INIS: 1982-02-09; ETDE: 2002-06-13

USE methyl chloride

**CHLOROPHYCOTA**

INIS: 1991-12-11; ETDE: 1988-12-20

\*BT1 algae

NT1 acetabularia

NT1 chlamydomonas

NT1 chlorella

NT1 nitella

NT1 scenedesmus

**CHLOROPHYLL**

\*BT1 phytochromes

\*BT1 porphyrins

RT chlorophyll-binding proteins

RT chloroplasts

RT chlorosis

RT leaves

RT photosynthesis

RT photosynthetic reaction centers

RT plants

**CHLOROPHYLL-BINDING PROTEINS**

INIS: 2000-04-12; ETDE: 1986-11-20

BT1 photosynthetic reaction centers

\*BT1 proteins

RT chlorophyll

RT photosynthetic membranes

**CHLOROPLASTS**

BT1 cell constituents

RT c4 species

RT calvin cycle species

RT chlorophyll

RT photosynthesis

RT plant cells

RT ribulose diphosphate carboxylase

**chloroprene**

USE neoprene

**CHLOROSIS**

INIS: 1992-06-19; ETDE: 1985-11-19

BT1 pathological changes

RT chlorophyll

RT leaves

RT plant diseases

RT plant tissues

RT symptoms

**chlorothiazide**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE diuretics

**CHLOROURACILS**

INIS: 1983-06-02; ETDE: 1982-11-08

\*BT1 organic chlorine compounds

\*BT1 uracils

**CHLOROUS ACID**

\*BT1 chlorine compounds

\*BT1 inorganic acids

BT1 oxygen compounds

**CHLORPROMAZINE**

\*BT1 amines

\*BT1 hypnotics and sedatives

\*BT1 organic chlorine compounds

\*BT1 phenothiazines

\*BT1 tranquilizers

**chlortetracycline**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE tetracyclines

**CHO CELLS**

INIS: 1984-01-18; ETDE: 1983-09-15

UF chinese hamster ovary cells

\*BT1 somatic cells

RT cell cultures

**CHOLANTHRENE**

\*BT1 condensed aromatics

**CHOLECALCIFEROL**

UF vitamin d-3

\*BT1 vitamin d

**CHOLERA**

\*BT1 bacterial diseases

**CHOLESTEROL**

1996-10-23

\*BT1 sterols

RT lipids

RT myelin

**CHOLIC ACID**

\*BT1 bile acids

**CHOLINE**

\*BT1 alcohols

\*BT1 lipotropic factors

\*BT1 quaternary compounds

RT acetylcholine

RT lecithins

RT lipids

**CHOLINESTERASE**

Code number 3.1.1.7 and 3.1.1.8.

\*BT1 carboxylesterases

RT acetylcholine

**CHONDRITES**

\*BT1 stone meteorites

**CHONDROITIN**

\*BT1 mucopolysaccharides

RT mucoproteins

**chondrosarcomas**

USE sarcomas

USE skeletal diseases

**chooz b-1 reactor**

INIS: 1984-07-23; ETDE: 1984-09-05

USE ardennes b-1 reactor

**chooz b-2 reactor**

2004-05-11

USE ardennes b-2 reactor

**chooz reactor**

USE ardennes reactor

**choppers (beam)**

INIS: 2000-04-12; ETDE: 1979-05-03

USE beam pulsers

**choppers (neutron)**

USE neutron choppers

**chordates**

INIS: 2000-04-12; ETDE: 1981-06-15

USE vertebrates

**chorioallantoic membrane**

USE fetal membranes

**choroid**

USE uvea

**christmas trees**

INIS: 2000-04-12; ETDE: 1986-02-21

Assemblies of valves, tees, crosses, and other fittings at wellheads, used to control oil or gas production and to give access to the well tubing.

USE wellheads

**CHROMATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 chromium compounds

BT1 oxygen compounds

RT chromic acid

RT chromium oxides

**CHROMATIC ABERRATIONS**

RT beam optics

**chromatid deletions**

USE chromosomal aberrations

**CHROMATIDS**

RT chromatin

RT chromosomes

RT human chromosomes

RT sister chromatid exchanges

**CHROMATIN**

1995-01-27

NT1 heterochromatin

NT1 nucleosomes

NT1 sex chromatin

RT achromatic lesions

RT cell nuclei

RT centromeres

RT chromatids

RT chromosomes

RT human chromosomes

**chromatographic columns**

INIS: 1984-04-04; ETDE: 1984-05-10

USE extraction columns

**CHROMATOGRAPHY**

UF paper chromatography

UF partition chromatography

BT1 separation processes

NT1 extraction chromatography

NT1 gas chromatography

NT1 gel permeation chromatography

NT1 ion exchange chromatography

NT1 liquid column chromatography

NT2 high-performance liquid chromatography

NT1 radiochromatography

NT1 supercritical fluid chromatography

NT1 thermochromatography

NT1 thin-layer chromatography

RT counter current

**chrome violet**

1996-10-22

(Prior to March 1997 ALUMINON was used for this concept in ETDE.)

USE hydroxy acids

USE triphenylmethane dyes

**CHROMEL**

1996-01-25

\*BT1 nickel base alloys

NT1 alloy-ni60fe24cr16

NT2 nichrome

NT1 alloy-ni80cr20

**chromel a**

INIS: 1983-11-07; ETDE: 2002-06-13

USE alloy-ni80cr20

**chromel c**

INIS: 1983-11-07; ETDE: 2002-06-13

USE alloy-ni60fe24cr16

**CHROMIC ACID**

\*BT1 chromium compounds

\*BT1 inorganic acids

BT1 oxygen compounds

RT chromates

RT chromium oxides

**CHROMITES**

1996-07-16

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 chromium compounds

BT1 oxygen compounds

RT chromium oxides

**CHROMIUM**

\*BT1 transition elements

**CHROMIUM 42**

INIS: 1988-11-16; ETDE: 1988-12-02

\*BT1 beta-plus decay radioisotopes

\*BT1 chromium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

**CHROMIUM 43**

\*BT1 chromium isotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

**CHROMIUM 44**

\*BT1 chromium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

**CHROMIUM 45**

\*BT1 beta-plus decay radioisotopes

\*BT1 chromium isotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

**CHROMIUM 46**

\*BT1 beta-plus decay radioisotopes

\*BT1 chromium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

**CHROMIUM 47**

\*BT1 beta-plus decay radioisotopes

\*BT1 chromium isotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

**CHROMIUM 48**

\*BT1 chromium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

**CHROMIUM 49**

\*BT1 beta-plus decay radioisotopes

\*BT1 chromium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**CHROMIUM 50**

\*BT1 chromium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 stable isotopes

**CHROMIUM 50 TARGET**

ETDE: 1976-07-09

BT1 targets

**CHROMIUM 51**

\*BT1 chromium isotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

**CHROMIUM 52**

\*BT1 chromium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 stable isotopes

**CHROMIUM 52 REACTIONS**

INIS: 1977-04-07; ETDE: 1977-06-02

\*BT1 heavy ion reactions

**CHROMIUM 52 TARGET**

ETDE: 1976-07-09

BT1 targets

**CHROMIUM 53**

\*BT1 chromium isotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 stable isotopes

**CHROMIUM 53 TARGET**

ETDE: 1976-07-09

BT1 targets

**CHROMIUM 54**

\*BT1 chromium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 stable isotopes

**CHROMIUM 54 REACTIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 heavy ion reactions

**CHROMIUM 54 TARGET**

ETDE: 1976-07-09

BT1 targets

**CHROMIUM 55**

\*BT1 beta-minus decay radioisotopes

\*BT1 chromium isotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**CHROMIUM 56**

\*BT1 beta-minus decay radioisotopes

\*BT1 chromium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**CHROMIUM 56 TARGET**

INIS: 1981-07-13; ETDE: 1981-08-04

BT1 targets

**CHROMIUM 57**

\*BT1 beta-minus decay radioisotopes

\*BT1 chromium isotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**CHROMIUM 58**

\*BT1 beta-minus decay radioisotopes

\*BT1 chromium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**CHROMIUM 59**

1980-11-07

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CHROMIUM 60**

INIS: 1986-08-19; ETDE: 1981-01-30

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 61**

INIS: 1986-08-19; ETDE: 1986-09-05

- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**CHROMIUM 62**

INIS: 1986-08-19; ETDE: 1986-09-05

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 63**

2005-03-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 64**

2005-03-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 65**

2005-03-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nanoseconds living radioisotopes

**CHROMIUM 66**

2005-03-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nanoseconds living radioisotopes

**CHROMIUM 67**

2007-10-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CHROMIUM ADDITIONS**

Alloys containing not more than 1% Cr are listed here.

- \*BT1 chromium alloys
- NT1 alloy-ni65mo28fe5
  - NT2 hastelloy b
- NT1 alloy-zr98sn-2
  - NT2 zircaloy 2
- NT1 alloy-zr98sn-4

- NT2 zircaloy 4
- NT1 steel-crmo
- NT1 steel-crni
- NT1 steel-mncumo
  - NT2 steel-astm-a537
- NT1 steel-ni3cr
- NT1 steel-nicr
- NT1 steel-nicrmo
- NT1 steel-nimocr

**CHROMIUM ALLOYS**

1996-11-13

Alloys containing more than 1% Cr.

- UF alloy-50kh4n6g12f2v
- UF alloy-co64cr29w4
- UF alloy-co66cr26w6
- UF alloy-ehi 868
- UF alloy-ehp-567
- UF alloy-fe48cr24ni24
- UF alloy-in-519
- UF alloy-khn60b
- UF alloy-khn60v
- UF alloy-ni60cr25w15
- UF alloy-ni65mo16cr15w4
- UF alloy-ni78cr16al4
- UF alloy-vzh98
- UF in 519
- UF inconel 702
- UF manaurite 900
- UF nickel-chromium steels
- UF refractaloy
- UF rezistal
- UF sichromal alloys
- UF steel-000kh20n20
- UF steel-1-kh18n20t3p
- UF steel-37khn3t
- UF steel-40kh2n5sm
- UF steel-kh12n20t3p
- UF steel-kh18n22v2t2
- UF steel-khn35vt
- UF steel-n26kht1
- UF steel-vzh102
- UF stellite 156
- SF alloy-0kh12n13m
- SF steel-60kh3g8n8v

- \*BT1 transition element alloys
- NT1 alloy-b-1900
- NT1 alloy-co36cr22ni22w15fe3
  - NT2 haynes 188 alloy
- NT1 alloy-co43cr20fe18ni13w3
  - NT2 havar
- NT1 alloy-co54cr20w15ni10
  - NT2 alloy-hs-25
- NT2 haynes 25 alloy
- NT1 alloy-co60cr30w4
  - NT2 stellite 6
- NT1 alloy-d-979
- NT1 alloy-fe40ni35cr22
- NT1 alloy-fe44ni33cr21
  - NT2 incoloy 800h
- NT1 alloy-fe46ni33cr21
  - NT2 incoloy 800
  - NT2 incoloy 802
- NT1 alloy-in-102
- NT1 alloy-khn50mbvyu
- NT1 alloy-mar-m246
- NT1 alloy-mn-21
- NT1 alloy-mo-re-1
- NT1 alloy-mp35n
- NT1 alloy-ni41fe40cr16nb3
  - NT2 inconel 706
- NT1 alloy-ni43fe30cr22mo3
  - NT2 incoloy 825
- NT1 alloy-ni43fe33cr16mo3
  - NT2 nimonic pe16
- NT1 alloy-ni45fe34cr20
- NT1 alloy-ni46cr23co19ti5al4
  - NT2 alloy-in-939
- NT1 alloy-ni49cr22fe18mo9

- NT2 hastelloy x
- NT1 alloy-ni50co20cr15al5mo5
  - NT2 nimonic 105
- NT1 alloy-ni50cr22fe18mo9
  - NT2 hastelloy xr
- NT1 alloy-ni50mo32cr15si3
- NT1 alloy-ni51cr48
  - NT2 inconel 671
- NT1 alloy-ni53cr19fe19nb5mo3
  - NT2 inconel 718
- NT1 alloy-ni54cr22co13mo9
  - NT2 inconel 617
- NT1 alloy-ni54mo17cr16fe6w4
  - NT2 hastelloy c
- NT1 alloy-ni55co17cr15mo5al4ti4
  - NT2 astroloy
- NT1 alloy-ni55cr19co11mo10ti3
  - NT2 rene 41
- NT1 alloy-ni58cr20co14mo4ti3
  - NT2 waspaloy
- NT1 alloy-ni59cr20co17ti2
- NT1 alloy-ni59cr30fe9
  - NT2 inconel 690
- NT1 alloy-ni60co15cr10al6ti5mo3
  - NT2 alloy-in-100
- NT1 alloy-ni60fe24cr16
  - NT2 nichrome
- NT1 alloy-ni61cr16co9al3ti3w3
  - NT2 alloy-in-738
- NT1 alloy-ni61cr22mo9nb4fe3
  - NT2 inconel 625
- NT1 alloy-ni61cr23fe14
- NT1 alloy-ni62cr16mo15fe3
  - NT2 hastelloy s
- NT1 alloy-ni65cr25mo10
  - NT2 nimonic 86
- NT1 alloy-ni70mo17cr7fe5
  - NT2 hastelloy n
  - NT2 inor-8
- NT1 alloy-ni73cr15fe7ti3
  - NT2 inconel x750
- NT1 alloy-ni73cr20mn3nb3
  - NT2 inconel 82
- NT1 alloy-ni74cr13al6mo4
  - NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5
  - NT2 inconel 713lc
- NT1 alloy-ni76cr15fe8
  - NT2 inconel 600
- NT1 alloy-ni76cr20ti2
  - NT2 nimonic 80a
- NT1 alloy-ni77cr20ti2
- NT1 alloy-ni78cr21
- NT1 alloy-ni80cr20
- NT1 alloy-ra-333
- NT1 alloy-s-590
- NT1 alloy-s-816
- NT1 alloy-ti78cr11mo7al3
- NT1 alloy-ti88mo8al3
- NT1 alloy-ti91al5cr2
- NT1 alloy-v-36
- NT1 alloy-v87cr9fe3
- NT1 ascoloy
- NT1 chromium additions
  - NT2 alloy-ni65mo28fe5
    - NT3 hastelloy b
  - NT2 alloy-zr98sn-2
    - NT3 zircaloy 2
  - NT2 alloy-zr98sn-4
    - NT3 zircaloy 4
- NT2 steel-crmo
- NT2 steel-crni
- NT2 steel-mncumo
  - NT3 steel-astm-a537
- NT2 steel-ni3cr
- NT2 steel-nicr
- NT2 steel-nicrmo
- NT2 steel-nimocr
- NT1 chromium base alloys

NT2 alloy-mo-re-2  
 NT1 chromium-nickel steels  
 NT2 alloy-d-9  
 NT2 carpenter  
 NT2 chromium-nickel-molybdenum steels  
 NT3 alloy-m-813  
 NT3 steel-cr11ni10mo2ti-l  
 NT3 steel-cr15ni15motib  
 NT3 steel-cr16ni13monbv  
 NT3 steel-cr16ni15mo3nb  
 NT3 steel-cr16ni16monb  
 NT3 steel-cr16ni8mo2  
 NT4 stainless steel-16-8-2  
 NT3 steel-cr16ni9mo2  
 NT3 steel-cr17ni12mo3  
 NT4 stainless steel-316  
 NT3 steel-cr17ni12mo3-l  
 NT4 stainless steel-316l  
 NT4 stainless steel-zcnd17-13  
 NT3 steel-cr17ni12monb  
 NT3 steel-cr17ni13mo2ti  
 NT3 steel-cr17ni13mo3ti  
 NT3 steel-ni26cr15ti2movalb  
 NT4 alloy-a-286  
 NT2 durco  
 NT2 enduro  
 NT2 stainless steel-17-7ph  
 NT2 stainless steel-303  
 NT2 stainless steel-329  
 NT2 stainless steel-ph-15-7-mo  
 NT2 steel-cr17ni13  
 NT2 steel-cr17ni7  
 NT3 stainless steel-301  
 NT2 steel-cr18ni10  
 NT3 stainless steel-18-10  
 NT2 steel-cr18ni10-l  
 NT2 steel-cr18ni10ti  
 NT3 stainless steel-321  
 NT2 steel-cr18ni11  
 NT3 steel-x6crni1811  
 NT2 steel-cr18ni11nb  
 NT3 stainless steel-347  
 NT2 steel-cr18ni11nbco  
 NT3 stainless steel-348  
 NT2 steel-cr18ni12  
 NT3 stainless steel-305  
 NT2 steel-cr18ni12ti  
 NT2 steel-cr18ni8  
 NT3 stainless steel-18-8  
 NT2 steel-cr18ni9  
 NT3 stainless steel-302  
 NT2 steel-cr18ni9ti  
 NT2 steel-cr19ni10  
 NT3 stainless steel-304  
 NT2 steel-cr19ni10-l  
 NT3 stainless steel-304l  
 NT2 steel-cr20ni11  
 NT3 stainless steel-308  
 NT2 steel-cr20ni11-l  
 NT3 stainless steel-308l  
 NT2 steel-cr23ni14  
 NT3 stainless steel-309  
 NT3 stainless steel-309s  
 NT2 steel-cr23ni18  
 NT2 steel-cr25ni20  
 NT3 alloy-hk-40  
 NT3 stainless steel-310  
 NT2 steel-ni25cr20  
 NT3 stainless steel-20-25  
 NT2 steel-ni36cr12ti3al-l  
 NT2 timken alloys  
 NT1 chromium steels  
 NT2 chromium-molybdenum steels  
 NT3 chromium-nickel-molybdenum steels  
 NT4 alloy-m-813  
 NT4 steel-cr11ni10mo2ti-l  
 NT4 steel-cr15ni15motib

NT4 steel-cr16ni13monbv  
 NT4 steel-cr16ni15mo3nb  
 NT4 steel-cr16ni16monb  
 NT4 steel-cr16ni8mo2  
 NT5 stainless steel-16-8-2  
 NT4 steel-cr16ni9mo2  
 NT4 steel-cr17ni12mo3  
 NT5 stainless steel-316  
 NT4 steel-cr17ni12mo3-l  
 NT5 stainless steel-316l  
 NT5 stainless steel-zcnd17-13  
 NT4 steel-cr17ni12monb  
 NT4 steel-cr17ni13mo2ti  
 NT4 steel-cr17ni13mo3ti  
 NT4 steel-ni26cr15ti2movalb  
 NT5 alloy-a-286  
 NT2 magnet steel-ks  
 NT2 miduale  
 NT2 stainless steel-406  
 NT2 steel-cr10mo2  
 NT2 steel-cr12  
 NT3 stainless steel-403  
 NT2 steel-cr12moniv  
 NT2 steel-cr12mov  
 NT3 alloy-ht-9  
 NT2 steel-cr13  
 NT3 stainless steel-410  
 NT2 steel-cr13al  
 NT3 stainless steel-405  
 NT2 steel-cr16  
 NT3 stainless steel-430  
 NT2 steel-cr16ni  
 NT2 steel-cr17cu4ni4nb-l  
 NT3 stainless steel-17-4ph  
 NT2 steel-cr17mo  
 NT3 stainless steel-440  
 NT2 steel-cr17ni4mo3  
 NT2 steel-cr18  
 NT2 steel-cr25  
 NT3 stainless steel-446  
 NT2 steel-cr9mo  
 NT2 steel-cr9monbv  
 NT1 colmony  
 NT1 discaloy  
 NT1 ge 2541  
 NT1 hoskins 875  
 NT1 ilium  
 NT1 incoloy 901  
 NT1 kanthal  
 NT1 konel  
 NT1 magnesium alloy-zr  
 NT1 misco metal  
 NT1 ni-hard  
 NT1 ni-o-nel  
 NT1 microbraz 50  
 NT1 nimonic 115  
 NT1 rene-100  
 NT1 rene 80  
 NT1 rene 95  
 NT1 sicromo 9m  
 NT1 steel-cd-4mcu  
 NT1 steel-cr21mn9ni6  
 NT2 stainless steel-21-6-9  
 NT1 steel-cr2mo  
 NT2 steel-astm-a542  
 NT1 steel-cr2moninb  
 NT1 steel-cr2mov  
 NT1 steel-cr2nimov  
 NT1 steel-cr5mo  
 NT1 steel-cralnimo  
 NT1 steel-crmov  
 NT1 steel-ni3crmo  
 NT2 steel-astm-a543  
 NT1 steel-ni3crmov  
 NT1 steel-ni4crw  
 NT1 supertherm  
 NT1 sweetalloy  
 NT1 td-nickel chromium  
 NT1 tophet

NT1 tribaloy 400  
 NT1 tribaloy 800  
 NT1 udimet alloys  
 NT2 alloy-ni53co19cr15mo5al4ti3  
 NT3 udimet 700  
 NT2 udimet 500  
 NT1 vitallium

**CHROMIUM BASE ALLOYS**

\*BT1 chromium alloys  
 NT1 alloy-mo-re-2

**CHROMIUM BORIDES**

\*BT1 borides  
 \*BT1 chromium compounds

**CHROMIUM BROMIDES**

\*BT1 bromides  
 \*BT1 chromium compounds

**CHROMIUM CARBIDES**

\*BT1 carbides  
 \*BT1 chromium compounds

**CHROMIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 chromium compounds

**CHROMIUM COMPLEXES**

\*BT1 transition element complexes

**CHROMIUM COMPOUNDS**

1996-07-15

BT1 transition element compounds  
 NT1 chromates  
 NT1 chromic acid  
 NT1 chromites  
 NT1 chromium borides  
 NT1 chromium bromides  
 NT1 chromium carbides  
 NT1 chromium chlorides  
 NT1 chromium fluorides  
 NT1 chromium hydrides  
 NT1 chromium hydroxides  
 NT1 chromium iodides  
 NT1 chromium nitrates  
 NT1 chromium nitrides  
 NT1 chromium oxides  
 NT1 chromium perchlorates  
 NT1 chromium phosphates  
 NT1 chromium selenides  
 NT1 chromium silicates  
 NT1 chromium silicides  
 NT1 chromium sulfates  
 NT1 chromium sulfides  
 NT1 chromium tellurides  
 NT1 dichromates

**CHROMIUM FLUORIDES**

\*BT1 chromium compounds  
 \*BT1 fluorides

**CHROMIUM HYDRIDES**

1978-07-03

\*BT1 chromium compounds  
 \*BT1 hydrides

**CHROMIUM HYDROXIDES**

\*BT1 chromium compounds  
 \*BT1 hydroxides

**CHROMIUM IODIDES**

\*BT1 chromium compounds  
 \*BT1 iodides

**CHROMIUM IONS**

\*BT1 ions

**CHROMIUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 chromium 42  
 NT1 chromium 43

NT1 chromium 44  
 NT1 chromium 45  
 NT1 chromium 46  
 NT1 chromium 47  
 NT1 chromium 48  
 NT1 chromium 49  
 NT1 chromium 50  
 NT1 chromium 51  
 NT1 chromium 52  
 NT1 chromium 53  
 NT1 chromium 54  
 NT1 chromium 55  
 NT1 chromium 56  
 NT1 chromium 57  
 NT1 chromium 58  
 NT1 chromium 59  
 NT1 chromium 60  
 NT1 chromium 61  
 NT1 chromium 62  
 NT1 chromium 63  
 NT1 chromium 64  
 NT1 chromium 65  
 NT1 chromium 66  
 NT1 chromium 67

### CHROMIUM-MOLYBDENUM STEELS

1994-09-30

*Steels containing Cr and Mo as main alloying elements; Cr content is higher than Mo content.*

(Until November 1983 this was a valid descriptor. From November 1983 until September 1994 the concept was indexed to CHROMIUM ALLOYS, MOLYBDENUM ALLOYS and the most specific appropriate term from the STEELS hierarchy.)

UF steel-15khg2sfmr  
 UF steel-20khmf  
 UF steel-2kh8v8m2k8  
 UF steel-38kh5msfa  
 UF steel-z10cdv7

\*BT1 chromium steels  
 \*BT1 molybdenum alloys

NT1 chromium-nickel-molybdenum steels  
 NT2 alloy-m-813  
 NT2 steel-cr11ni10mo2ti-l  
 NT2 steel-cr15ni15motib  
 NT2 steel-cr16ni13monbv  
 NT2 steel-cr16ni15mo3nb  
 NT2 steel-cr16ni16monb  
 NT2 steel-cr16ni8mo2  
 NT3 stainless steel-16-8-2  
 NT2 steel-cr16ni9mo2  
 NT2 steel-cr17ni12mo3  
 NT3 stainless steel-316  
 NT2 steel-cr17ni12mo3-l  
 NT3 stainless steel-316l  
 NT3 stainless steel-zcnd17-13  
 NT2 steel-cr17ni12monb  
 NT2 steel-cr17ni13mo2ti  
 NT2 steel-cr17ni13mo3ti  
 NT2 steel-ni26cr15ti2moyalb  
 NT3 alloy-a-286

### CHROMIUM-NICKEL-MOLYBDENUM STEELS

INIS: 1996-11-13; ETDE: 1988-12-16

*Cr-Ni steels containing Mo.*

UF steel-13cr6nimo  
 UF steel-42kh2gsnm  
 UF steel-cr13ni6mo-l  
 UF steel-ehp699  
 UF steel-kh14k9n6m5  
 UF steel-kh15n20m2t2  
 UF steel-kh17n5m3  
 UF steel-ni17cr14moti-l

\*BT1 chromium-molybdenum steels  
 \*BT1 chromium-nickel steels

NT1 alloy-m-813  
 NT1 steel-cr11ni10mo2ti-l  
 NT1 steel-cr15ni15motib  
 NT1 steel-cr16ni13monbv  
 NT1 steel-cr16ni15mo3nb  
 NT1 steel-cr16ni16monb  
 NT1 steel-cr16ni8mo2  
 NT2 stainless steel-16-8-2  
 NT1 steel-cr16ni9mo2  
 NT1 steel-cr17ni12mo3  
 NT2 stainless steel-316  
 NT1 steel-cr17ni12mo3-l  
 NT2 stainless steel-316l  
 NT2 stainless steel-zcnd17-13  
 NT1 steel-cr17ni12monb  
 NT1 steel-cr17ni13mo2ti  
 NT1 steel-cr17ni13mo3ti  
 NT1 steel-ni26cr15ti2moyalb  
 NT2 alloy-a-286

### CHROMIUM-NICKEL STEELS

1996-11-13

*High alloy steels containing Cr and Ni as important alloying elements.*

(Prior to November 1983 this descriptor included only steels in which the Cr content was higher than the Ni content.)

UF stainless steel-330  
 UF stainless steel-z2cn18-10n  
 UF stainless steel-z3cmm18-8-6n  
 UF stainless steel-z3cnd18-13  
 UF stainless steel-z6cnd17-13b  
 UF stainless steel-z6cndt17-13b  
 UF stainless steel-z6cnt18-12b  
 UF steel-000kh18n13  
 UF steel-000kh20n16ag6  
 UF steel-03kh11n10m2t1k6  
 UF steel-0kh19nt  
 UF steel-18kh16n6  
 UF steel-1kh16n14v2br ehp17  
 UF steel-1kh16n4b  
 UF steel-20kh2n2m  
 UF steel-20kh3mf  
 UF steel-2kh18n8v2  
 UF steel-3kh15n13yu3  
 UF steel-40kh13n8g8  
 UF steel-4kh12n8g8mf8  
 UF steel-4kh14rv2m  
 UF steel-cr13mn8ni8  
 UF steel-din-1-4449  
 UF steel-kh14n8yym2  
 UF steel-kh15n7yym2  
 UF steel-kh15n9yu  
 UF steel-kh18n8  
 UF steel-ni36cr18

\*BT1 chromium alloys

\*BT1 nickel alloys

\*BT1 stainless steels

NT1 alloy-d-9

NT1 carpenter

NT1 chromium-nickel-molybdenum steels

NT2 alloy-m-813  
 NT2 steel-cr11ni10mo2ti-l  
 NT2 steel-cr15ni15motib  
 NT2 steel-cr16ni13monbv  
 NT2 steel-cr16ni15mo3nb  
 NT2 steel-cr16ni16monb  
 NT2 steel-cr16ni8mo2  
 NT3 stainless steel-16-8-2  
 NT2 steel-cr16ni9mo2  
 NT2 steel-cr17ni12mo3  
 NT3 stainless steel-316  
 NT2 steel-cr17ni12mo3-l  
 NT3 stainless steel-316l  
 NT3 stainless steel-zcnd17-13  
 NT2 steel-cr17ni12monb  
 NT2 steel-cr17ni13mo2ti  
 NT2 steel-cr17ni13mo3ti  
 NT2 steel-ni26cr15ti2moyalb

NT3 alloy-a-286  
 NT1 durco  
 NT1 enduro  
 NT1 stainless steel-17-7ph  
 NT1 stainless steel-303  
 NT1 stainless steel-329  
 NT1 stainless steel-ph-15-7-mo  
 NT1 steel-cr17ni13  
 NT1 steel-cr17ni7  
 NT2 stainless steel-301  
 NT1 steel-cr18ni10  
 NT2 stainless steel-18-10  
 NT1 steel-cr18ni10-l  
 NT1 steel-cr18ni10ti  
 NT2 stainless steel-321  
 NT1 steel-cr18ni11  
 NT2 steel-x6crni1811  
 NT1 steel-cr18ni11nb  
 NT2 stainless steel-347  
 NT1 steel-cr18ni11nbco  
 NT2 stainless steel-348  
 NT1 steel-cr18ni12  
 NT2 stainless steel-305  
 NT1 steel-cr18ni12ti  
 NT1 steel-cr18ni8  
 NT2 stainless steel-18-8  
 NT1 steel-cr18ni9  
 NT2 stainless steel-302  
 NT1 steel-cr18ni9ti  
 NT1 steel-cr19ni10  
 NT2 stainless steel-304  
 NT1 steel-cr19ni10-l  
 NT2 stainless steel-304l  
 NT1 steel-cr20ni11  
 NT2 stainless steel-308  
 NT1 steel-cr20ni11-l  
 NT2 stainless steel-308l  
 NT1 steel-cr23ni14  
 NT2 stainless steel-309  
 NT2 stainless steel-309s  
 NT1 steel-cr23ni18  
 NT1 steel-cr25ni20  
 NT2 alloy-hk-40  
 NT2 stainless steel-310  
 NT1 steel-ni25cr20  
 NT2 stainless steel-20-25  
 NT1 steel-ni36cr12ti3al-l  
 NT1 timken alloys  
 RT nickel steels

### CHROMIUM NITRATES

\*BT1 chromium compounds  
 \*BT1 nitrates

### CHROMIUM NITRIDES

\*BT1 chromium compounds  
 \*BT1 nitrides

### CHROMIUM ORES

BT1 ores

### CHROMIUM OXIDES

1996-07-15

UF lanthanum chromites  
 \*BT1 chromium compounds  
 \*BT1 oxides  
 RT chromates  
 RT chromic acid  
 RT chromites  
 RT dichromates

### CHROMIUM PERCHLORATES

INIS: 1983-06-02; ETDE: 1977-04-12

\*BT1 chromium compounds  
 \*BT1 perchlorates

### CHROMIUM PHOSPHATES

\*BT1 chromium compounds  
 \*BT1 phosphates

**CHROMIUM SELENIDES**

INIS: 1976-11-17; ETDE: 1976-08-24

- \*BT1 chromium compounds
- \*BT1 selenides

**CHROMIUM SILICATES**

- \*BT1 chromium compounds
- \*BT1 silicates

**CHROMIUM SILICIDES**

1982-04-14

- \*BT1 chromium compounds
- \*BT1 silicides

**CHROMIUM STEELS**

1996-11-13

High alloy steels containing Cr as main alloying element.

UF crocar

UF stainless steel-44ln

UF steel-0kh21n5t

UF steel-0kh22n5t

UF steel-1kh12v2mf

UF steel-40k14g18f

UF steel-9khs

UF steel-cr21ni5ti

UF steel-cr22ni5ti

UF steel-cr26ni5mo-1

UF steel-kh13s2yu2bt

UF steel-r18

\*BT1 chromium alloys

\*BT1 stainless steels

NT1 chromium-molybdenum steels

NT2 chromium-nickel-molybdenum steels

NT3 alloy-m-813

NT3 steel-cr11ni10mo2ti-1

NT3 steel-cr15ni15motib

NT3 steel-cr16ni13monbv

NT3 steel-cr16ni15mo3nb

NT3 steel-cr16ni16monb

NT3 steel-cr16ni8mo2

NT4 stainless steel-16-8-2

NT3 steel-cr16ni9mo2

NT3 steel-cr17ni12mo3

NT4 stainless steel-316

NT3 steel-cr17ni12mo3-1

NT4 stainless steel-316l

NT4 stainless steel-zcnd17-13

NT3 steel-cr17ni12monb

NT3 steel-cr17ni13mo2ti

NT3 steel-cr17ni13mo3ti

NT3 steel-ni2cr15ti2movalb

NT4 alloy-a-286

NT1 magnet steel-ks

NT1 miduale

NT1 stainless steel-406

NT1 steel-cr10mo2

NT1 steel-cr12

NT2 stainless steel-403

NT1 steel-cr12moniv

NT1 steel-cr12mov

NT2 alloy-ht-9

NT1 steel-cr13

NT2 stainless steel-410

NT1 steel-cr13al

NT2 stainless steel-405

NT1 steel-cr16

NT2 stainless steel-430

NT1 steel-cr16ni

NT1 steel-cr17cu4ni4nb-1

NT2 stainless steel-17-ph

NT1 steel-cr17mo

NT2 stainless steel-440

NT1 steel-cr17ni4mo3

NT1 steel-cr18

NT1 steel-cr25

NT2 stainless steel-446

NT1 steel-cr9mo

NT1 steel-cr9monbv

**CHROMIUM SULFATES**

\*BT1 chromium compounds

\*BT1 sulfates

**CHROMIUM SULFIDES**

\*BT1 chromium compounds

\*BT1 sulfides

**CHROMIUM TELLURIDES**

INIS: 1978-11-24; ETDE: 1978-06-14

\*BT1 chromium compounds

\*BT1 tellurides

**chromizing**

USE diffusion coating

**chromodynamics**

INIS: 2000-04-12; ETDE: 1977-11-28

USE quantum chromodynamics

**chromone**

INIS: 2000-04-12; ETDE: 1979-10-23

(Prior to September 1994, this was a valid ETDE descriptor.)

USE pyrones

**CHROMOPHYCOTA**

INIS: 1991-12-11; ETDE: 1988-12-20

\*BT1 algae

NT1 diatoms

NT1 fucus

NT1 laminaria

**CHROMOSOMAL ABERRATIONS**

1998-02-16

UF abnormalities (chromosomal)

UF chromatid deletions

UF chromosome aberrations

UF chromosome exchanges

UF chromosome fragments

UF deletions (chromosomal)

UF reciprocal translocations

BT1 mutations

NT1 chromosome breakage

NT1 sister chromatid exchanges

RT acrocentric chromosomes

RT banding techniques

RT biological indicators

RT chromosomes

RT dicentric chromosomes

RT dna damages

RT downs syndrome

RT genetic control

RT hereditary diseases

RT heterochromosomes

RT human chromosomes

RT karyotype

RT telomeres

**chromosome aberrations**

USE chromosomal aberrations

**CHROMOSOME BREAKAGE**

\*BT1 chromosomal aberrations

RT heterochromatin

**chromosome exchanges**

USE chromosomal aberrations

**chromosome fragments**

USE chromosomal aberrations

**CHROMOSOME LOSSES**

INIS: 1976-05-05; ETDE: 1976-06-07

BT1 losses

RT chromosomes

RT genetic radiation effects

**CHROMOSOME SORTING**

INIS: 1988-04-15; ETDE: 1987-04-24

The physical separation of a karyotype to provide large quantities of an individual chromosome.

BT1 cytological techniques

RT cell flow systems

RT chromosomes

RT human chromosomes

**CHROMOSOMES**

1997-06-17

NT1 acrocentric chromosomes

NT1 dicentric chromosomes

NT1 heterochromosomes

NT2 x chromosome

NT3 human x chromosome

NT2 y chromosome

NT3 human y chromosome

NT1 human chromosomes

NT2 human chromosome 1

NT2 human chromosome 12

NT2 human chromosome 13

NT2 human chromosome 14

NT2 human chromosome 15

NT2 human chromosome 16

NT2 human chromosome 17

NT2 human chromosome 18

NT2 human chromosome 19

NT2 human chromosome 2

NT2 human chromosome 21

NT2 human chromosome 22

NT2 human chromosome 3

NT2 human chromosome 5

NT2 human chromosome 6

NT2 human chromosome 7

NT2 human chromosome 8

NT2 human chromosome 9

NT2 human x chromosome

NT2 human y chromosome

NT2 philadelphia chromosome

NT1 ring chromosomes

RT banding techniques

RT cell nuclei

RT centromeres

RT chromatids

RT chromatin

RT chromosomal aberrations

RT chromosome losses

RT chromosome sorting

RT contigs

RT crossing-over

RT dna

RT dna repair

RT gene operons

RT gene regulation

RT genes

RT genetic effects

RT genetic mapping

RT in-situ hybridization

RT karyotype

RT mitosis

RT nucleoli

RT rflps

RT telomeres

**CHROMOSPHERE**

\*BT1 solar atmosphere

RT photosphere

RT plages

RT solar flares

RT sun

**CHROMOTROPIC ACID**

\*BT1 hydroxy compounds

\*BT1 sulfonic acids

RT dyes

**chronic administration**

USE chronic intake

**CHRONIC EXPOSURE**

INIS: 1985-12-10; ETDE: 1978-06-14

For chronic exposure to radiation use  
CHRONIC IRRADIATION.

- NT1 chronic irradiation
- RT biological effects
- RT biological stress
- RT environmental exposure
- RT toxicity

**CHRONIC INTAKE**

- UF chronic administration
- UF continuous intake
- UF long term intake
- BT1 intake
- RT chronic irradiation

**CHRONIC IRRADIATION**

- UF continuous irradiation
- UF long term irradiation
- UF protracted irradiation
- BT1 chronic exposure
- BT1 irradiation
- RT chronic intake
- RT low dose irradiation
- RT radiation doses
- RT radiation syndrome
- RT temporal dose distributions

**chronic radiation effects**

- USE delayed radiation effects

**CHRONOTRONS**

1996-07-08

(Prior to August 1996 VERNIER  
CHRONOTRONS was a valid ETDE  
descriptor.)

- UF vernier chronotrons
- \*BT1 time interval analyzers

**CHRYSENE**

- \*BT1 condensed aromatics
- \*BT1 hydrocarbons

**CHRYSOBERYL**

INIS: 2000-04-12; ETDE: 1980-06-23

Beryllium aluminate.

- \*BT1 oxide minerals
- RT aluminium oxides
- RT beryllium oxides

**chrysothamnus nauseosus**

INIS: 2000-04-12; ETDE: 1982-03-11

- USE shrubs

**CHS TORSATRON**

1991-02-11

National Institute for Fusion Science, Nagoya,  
Japan.

- UF compact helical system torsatron
- \*BT1 torsatron stellarators

**chubu-1 reactor**

- USE hamaoka-1 reactor

**chubu-2 reactor**

- USE hamaoka-2 reactor

**chubu-3 reactor**

- USE hamaoka-3 reactor

**chubu-4 reactor**

1992-11-03

- USE hamaoka-4 reactor

**chubu-5 reactor**

2000-01-31

- USE hamaoka-5 reactor

**chugoku-1 reactor**

- USE shimane-1 reactor

**chugoku-2 reactor**

INIS: 1985-11-16; ETDE: 1985-08-08

- USE shimane-2 reactor

**chugoku electric power company reactor**

1993-11-04

- USE shimane-1 reactor

**CHUKCHI SEA**

INIS: 1997-08-20; ETDE: 1985-07-19

Part of Arctic Ocean north of Bering Strait  
between Asia and North America.

- \*BT1 arctic ocean
- RT alaska
- RT arctic regions
- RT siberia

**chukotka reactor**

- USE bilibin reactor

**CHYLOMICRONS**

- RT blood plasma
- RT lipids

**CHYMOTRYPSIN**

Code numbers 3.4.21.1 and 3.4.21.2.

- \*BT1 serine proteinases
- RT digestion
- RT pancreas

**CIAE**

INIS: 1992-08-05; ETDE: 1992-09-10

UF china institute of atomic energy

- \*BT1 chinese organizations
- RT china
- RT mnsr-ciae reactor

**cigarettes**

INIS: 2000-04-12; ETDE: 1980-01-15

- SEE tobacco products

**cii computers**

1997-01-28

(Until October 1996 this was a valid  
descriptor.)

- USE digital computers

**CILIATA**

INIS: 1993-07-13; ETDE: 1981-06-17

- \*BT1 protozoa
- NT1 paramecium
- NT1 tetrahymena

**CIM MODEL**

INIS: 1978-08-14; ETDE: 1978-04-27

Constituent interchange model shows  
importance of forces involving the interchange  
of constituents of hadrons and accounts for  
very strong binding force in color singlet  
states.

- UF constituent interchange model
- \*BT1 composite models
- RT exchange interactions
- RT hadrons
- RT quantum chromodynamics
- RT quark-hadron interactions
- RT strong interactions

**cimarron plutonium plant**

INIS: 1994-08-12; ETDE: 2002-06-13

- USE cimarron plutonium production plant

**CIMARRON PLUTONIUM PRODUCTION PLANT**

1994-08-12

(Until August 1994 this descriptor in INIS was  
spelled CIMARRON PLUTONIUM PLANT.)

- UF cimarron plutonium plant
- \*BT1 fuel fabrication plants
- BT1 industrial plants
- RT cimarron uranium fuel plant

**CIMARRON URANIUM FUEL PLANT**

INIS: 1994-08-12; ETDE: 1975-11-28

(Until August 1994 this descriptor was spelled  
CIMARRON URANIUM PLANT.)

- UF cimarron uranium plant
- \*BT1 fuel fabrication plants
- BT1 industrial plants
- RT cimarron plutonium production plant

**cimarron uranium plant**

INIS: 1994-08-12; ETDE: 1976-05-17

(Until August 1994 this was a valid  
descriptor.)

- USE cimarron uranium fuel plant

**cinchonine**

1996-07-18

See also ANTIMICROBIAL AGENTS and  
ANTIPYRETICS.

(Until July 1996 this was a valid descriptor.)

- USE alkaloids

**CINDA**

Computer Index of Nuclear Data.

- BT1 information systems
- RT cross sections
- RT data
- RT neutrons
- RT nuclear data collections
- RT nuclear reactions

**CINEMATOGRAPHY**

INIS: 1986-01-21; ETDE: 1986-03-04

Motion picture photography.

- BT1 photography

**cinnabar**

INIS: 2000-04-12; ETDE: 1977-03-08

HgS mineral.

(Prior to February 1995, this was a valid  
ETDE descriptor.)

- USE sulfide minerals

**CINNAMIC ACID**

- UF phenylacrylic acid-beta
- \*BT1 monocarboxylic acids

**cir reactor**

- USE cirus reactor

**circadian variations**

- USE daily variations

**CIRCE DEVICES**

1996-07-18

- \*BT1 magnetic mirrors

**CIRCLE CLIFFS DEPOSIT**

INIS: 2000-04-12; ETDE: 1983-07-07

- \*BT1 oil sand deposits
- RT oil sands
- RT utah

**CIRCUIT BREAKERS**

- UF breakers (circuit)
- \*BT1 electrical equipment
- BT1 equipment protection devices
- RT current limiters
- RT electric fuses
- RT electronic circuits
- RT insulating oils
- RT lightning arresters
- RT switches
- RT switching circuits

**CIRCUIT THEORY**

- RT electronic circuits
- RT network analysis

**circuits (electronic)**

- USE electronic circuits



**circuits (magnetic)**

USE magnetic circuits

**CIRCULAR CONFIGURATION**

BT1 configuration

**circular point collectors**

INIS: 1992-03-30; ETDE: 1978-10-25

USE parabolic dish collectors

**circulating fluidized bed boilers**

INIS: 2000-04-12; ETDE: 1993-01-20

USE circulating systems  
USE fluidized bed boilers**circulating fluidized beds**

INIS: 1993-02-18; ETDE: 2002-06-13

USE circulating systems  
USE fluidized beds**CIRCULATING SYSTEMS**

INIS: 1993-02-18; ETDE: 1979-11-07

*Fluid systems in which the process fluid is taken from and pumped back into the system.*

UF circulating fluidized bed boilers

UF circulating fluidized beds

NT1 self-pumping systems

RT coolant loops

RT pumping

RT pumps

RT thermosyphon effect

**circulation (blood)**

USE blood circulation

**CIRENE REACTOR***Cirene, Latina, Italy.*

\*BT1 hwlwr type reactors

\*BT1 pressure tube reactors

\*BT1 thermal reactors

**CIRUS REACTOR***Bhabha Atomic Research Centre, Trombay, Maharashtra, India.*

UF canada-india reactor

UF cir reactor

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 water cooled reactors

**CISE**

UF centro informazioni studi esperienze

\*BT1 italian organizations

**cistrons**

USE genes

**cit synchrotron**

1996-07-18

*Caltech Synchrotron.*

USE synchrotrons

**cities**

USE urban areas

**CITRATE PROCESS**

2000-04-12

*Process for clean up of tail gas emissions from sulfur recovery plants, e.g. Claus Process plant.*

\*BT1 desulfurization

**CITRATES**

UF sodium citrates

BT1 carboxylic acid salts

RT citric acid esters

**citrex process**

INIS: 2000-04-12; ETDE: 1983-03-23

*Flue gas desulfurization process licensed by Peabody.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

USE waste processing

**CITRIC ACID**

\*BT1 hydroxy acids

**CITRIC ACID ESTERS**

\*BT1 carboxylic acid esters

RT citrates

**CITROVORUM FACTOR**

UF folic acid

UF leucovorin

RT folic acid

RT vitamin b group

**CITRULLINE**

UF ureidoaminovaleric acid

\*BT1 amino acids

RT urea

**CITRUS**

\*BT1 magnoliopsida

RT fruit trees

RT grapefruits

RT lemons

RT oranges

**CIVAUX-1 REACTOR**

2004-05-11

*Electricite de France, Civaux, France.*

\*BT1 pwr type reactors

**CIVAUX-2 REACTOR**

2004-05-11

*Electricite de France, Civaux, France.*

\*BT1 pwr type reactors

**CIVEX PROCESS**

INIS: 1978-11-24; ETDE: 1978-06-14

\*BT1 reprocessing

RT fbr type reactors

RT nuclear materials diversion

RT plutonium recycle

RT solvent extraction

**CIVIL DEFENSE**

BT1 national defense

RT evacuation

RT human populations

RT local fallout

RT nuclear explosions

RT nuclear weapons

RT population relocation

RT radiation protection

RT safety

RT shelters

RT subsurface structures

**CIVIL ENGINEERING**

INIS: 1991-10-01; ETDE: 1982-08-11

BT1 engineering

**CIVIL LIABILITY**

BT1 liabilities

RT bcoclmnm

RT bcolons

RT bcstpc

RT pcotpl

RT price-anderson act

RT solas convention

RT vcoclnd

RT workmens compensation

**CLADDING***For the process only.*

\*BT1 surface coating

RT canning

RT decladding

RT fuel cans

RT hard facing

RT plating

RT rolling

**cladding-fuel interactions**

USE fuel-cladding interactions

**CLAISEN CONDENSATION**

BT1 chemical reactions

RT esters

**CLAMS**

INIS: 1986-12-18; ETDE: 1981-06-17

\*BT1 molluscs

**CLARKEITE**

\*BT1 oxide minerals

\*BT1 uranium minerals

RT potassium oxides

RT sodium oxides

RT uranium oxides

**clasp device**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE stellarators

**CLASSICAL MECHANICS**

UF newton mechanics

BT1 mechanics

RT hamiltonian function

**CLASSIFICATION**

INIS: 1999-02-12; ETDE: 1976-04-19

NT1 standard industrial classification

RT particle size classifiers

RT sorting

**CLASSIFIED INFORMATION**

INIS: 1991-12-11; ETDE: 1980-04-14

BT1 information

RT declassification

RT national security

RT secrecy protection

RT security

**CLATHRATES**

UF inclusion complexes

UF intercalates

UF occlusion complexes

RT adducts

RT crystals

RT matrix isolation

RT organic compounds

RT rare gases

**CLAUS PROCESS**

2000-04-12

*A process for recovery of elemental sulfur from hydrogen sulfide gas. Oxygen reacts with the hydrogen sulfide to produce dry sulfur and steam.*

\*BT1 desulfurization

RT ucap process

**claviceps**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE eumycota

USE parasites

**CLAYS**

\*BT1 silicate minerals

NT1 attapulgite

NT1 bentonite

NT1 boom clay

NT1 clinoptilolite

NT1 fullers earth

NT1 illite

NT1 kaolin

**NT1** montmorillonite  
**NT1** sepiolite  
**NT1** smectite  
 RT adobe  
 RT alluvial deposits  
 RT ceramics  
 RT decontamination  
 RT ground water  
 RT loam  
 RT marlstone  
 RT radionuclide migration  
 RT sand  
 RT shales  
 RT soils

### CLEAN AIR ACTS

INIS: 1994-01-24; ETDE: 1993-08-10  
 (Prior to November 1991 this concept in ETDE was indexed to CLEAN AIR ACT. From November 1991 to August 1993 this concept in ETDE was indexed to US CLEAN AIR ACT.)

UF *us clean air act*  
 \*BT1 pollution laws  
 RT air pollution  
 RT air quality  
 RT environment  
 RT environmental policy  
 RT pollution regulations

### CLEAN COKE PROCESS

INIS: 2000-04-12; ETDE: 1976-03-11  
 Process that combines carbonization and hydrogenation reactions to convert nonmetallurgical-grade coal to low-sulfur metallurgical coke, chemical feedstocks, and liquid and gaseous fuels. Carbonization is carried out at 650 to 760 degrees C with a fluidizing gas containing 33% hydrogen.

RT carbonization  
 RT coal liquefaction  
 RT coking  
 RT hydrogenation

### clean fuel from coal process

INIS: 2000-04-12; ETDE: 1976-08-24  
 USE cfc process

### CLEAN ROOMS

INIS: 1983-02-03; ETDE: 1979-08-07  
 RT contamination  
 RT controlled atmospheres  
 RT remote handling

### CLEAN WATER ACTS

INIS: 1994-01-24; ETDE: 1993-08-10  
 (Prior to April 1980 this concept in ETDE was indexed to FEDERAL WATER POLLUTION CONTROL ACT. from April 1980 to December 1991 this was a valid ETDE descriptor. From December 1991 to August 1993 this concept in ETDE was indexed to US CLEAN WATER ACT.)

UF *federal water pollution control act*  
 UF *fwpc*  
 UF *us clean water act*  
 UF *us water pollution control act*  
 \*BT1 pollution laws  
 RT environment  
 RT environmental policy  
 RT pollution regulations  
 RT water pollution  
 RT water quality

### cleanair process

2000-04-12  
 Process for recovery of 99.9% of S from Claus plant tail gas, leaving no more than 200 ppm sulfur dioxide equivalent in the effluent. (Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

### CLEANING

**NT1** air cleaning  
**NT1** decontamination  
**NT1** surface cleaning  
**NT1** washing  
 RT coal preparation  
 RT coolant cleanup systems  
 RT deashing  
 RT decarbonization  
 RT detergents  
 RT dishwashers  
 RT electropolishing  
 RT heavy media separation  
 RT purification  
 RT scrubbing  
 RT stains

### CLEARANCE

**NT1** blood-plasma clearance  
**NT1** excretion  
**NT2** exhalation  
**NT2** lung clearance  
**NT2** renal clearance  
 RT nuclear medicine

### clearance (renal)

2000-04-12  
 USE renal clearance

### CLEAVAGE

BT1 microstructure  
 RT crystal growth  
 RT crystallization

### CLEBSCH-GORDAN COEFFICIENTS

UF *3j-symbols*  
 RT angular momentum  
 RT group theory  
 RT racah coefficients  
 RT wigner coefficients

### CLEMENTINE REACTOR

LASL, Los Alamos, New Mexico, USA. Shut down in 1953.

\*BT1 fast reactors  
 \*BT1 mercury cooled reactors  
 \*BT1 plutonium reactors  
 \*BT1 research reactors

### CLEO STELLARATOR

\*BT1 stellarators  
 RT proto-cleo stellarators

### clerical personnel

INIS: 2000-04-12; ETDE: 1980-08-25  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 USE personnel

### CLEVELAND

2000-04-12  
 \*BT1 ohio  
 BT1 urban areas

### CLIFFORD ALGEBRA

RT group theory

### CLIMATE MODELS

INIS: 1991-12-18; ETDE: 1986-01-24  
 BT1 mathematical models  
 RT ambient temperature  
 RT atmospheric circulation  
 RT box models

RT climates  
 RT general circulation models  
 RT meteorology  
 RT paleoclimatology  
 RT seasonal variations

### CLIMATES

**NT1** microclimates  
 RT antarctic regions  
 RT arctic regions  
 RT atmospheric circulation  
 RT atmospheric precipitations  
 RT boreal regions  
 RT climate models  
 RT degree days  
 RT deserts  
 RT droughts  
 RT little ice age  
 RT meteorology  
 RT nuclear winter  
 RT outdoors  
 RT paleoclimatology  
 RT phenology  
 RT seasons  
 RT temperate zones  
 RT tropical regions  
 RT tundra  
 RT weather  
 RT wind  
 RT wmo

### CLIMATIC CHANGE

INIS: 1999-05-05; ETDE: 1991-10-28

UF *global climate change*  
**NT1** greenhouse effect  
 RT acid rain  
 RT ambient temperature  
 RT emissions tax  
 RT emissions trading  
 RT environmental protection  
 RT kyoto protocol  
 RT ozone layer  
 RT paleoclimatology  
 RT rio declaration

### CLINCH RIVER

1997-06-19

\*BT1 rivers  
 RT tennessee  
 RT tennessee valley region

### CLINCH RIVER BREEDER REACTOR

Project Management Corp./US DOE/TVA, Oak Ridge, Tennessee, USA. Canceled in 1983 after site preparation but before construction began.

UF *crbr reactor*  
 \*BT1 Imfbr type reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors  
 RT enriched uranium reactors  
 RT plutonium reactors

### CLINICAL TRIALS

2002-08-01  
 BT1 testing  
 RT diagnostic uses  
 RT drugs

### CLINOPTILOLITE

A zeolite mineral.  
 \*BT1 clays  
 \*BT1 zeolites

### CLINTON-1 REACTOR

AmerGen Energy Co., LLC, Clinton, Illinois, USA.  
 \*BT1 bwr type reactors

**CLINTON-2 REACTOR**

*Illinois Power Co., Clinton, Illinois, USA.  
Canceled in 1983 before construction began.  
\*BT1 bwr type reactors*

**clinton p. anderson meson physics facility**

*2000-04-12  
USE lampf linac*

**clipping circuits**

*USE pulse shapers*

**CLONE CELLS**

*BT1 cell cultures  
RT animal cells  
RT cloning  
RT hela cells  
RT in vitro  
RT l cells  
RT monoclonal antibodies  
RT plant cells  
RT plaque formation*

**CLONING**

*INIS: 1977-10-17; ETDE: 1977-11-10*

*NT1 dna-cloning  
NT1 vegetative propagation  
RT cell cultures  
RT cell proliferation  
RT clone cells  
RT colony formation*

**close-in fallout**

*USE local fallout*

**CLOSED CONFIGURATIONS**

*1996-01-24*

*UF magnetic traps (closed)  
BT1 magnetic field configurations  
NT1 minimum average-b configurations  
NT1 multipolar configurations  
NT2 hexapolar configurations  
NT2 octupolar configurations  
NT2 quadrupolar configurations  
NT1 toroidal configuration  
RT closed plasma devices*

**CLOSED-CYCLE COOLING SYSTEMS**

*1977-09-06*

*UF dry-type cooling towers  
\*BT1 cooling systems  
RT closed-cycle systems  
RT coolant loops  
RT cooling towers  
RT reactor cooling systems*

**CLOSED-CYCLE MHD GENERATORS**

*\*BT1 mhd generators  
NT1 liquid-metal mhd generators  
RT open-cycle mhd generators*

**CLOSED-CYCLE SYSTEMS**

*INIS: 1999-05-05; ETDE: 1975-12-16  
RT closed-cycle cooling systems*

**CLOSED-LOOP CONTROL**

*INIS: 1976-09-06; ETDE: 1976-11-01  
With feedback.  
BT1 control  
RT feedback*

**CLOSED PLASMA DEVICES**

*BT1 thermonuclear devices  
NT1 astron  
NT1 blascon devices  
NT1 compact torus  
NT2 field-reversed theta pinch devices  
NT2 rotamak devices  
NT1 heliotron*

*NT1 internal ring devices*

*NT2 fm devices  
NT2 levitron devices  
NT2 lm devices  
NT2 spherator  
NT2 tokapole devices  
NT2 tornado devices  
NT1 lhd device  
NT1 stellarators  
NT2 cleo stellarator  
NT2 heliac stellarators  
NT3 h-1 heliac  
NT3 hsx stellarator  
NT3 sheila heliac  
NT3 tj-ii heliac  
NT2 heliotron-e stellarator  
NT2 ims stellarator  
NT2 jipp stellarator  
NT2 jippt-2 device  
NT2 l-2 stellarator  
NT2 proto-cleo stellarators  
NT2 sirius device  
NT2 stellarator model c  
NT2 torsatron stellarators  
NT3 aff torsatron  
NT3 chs torsatron  
NT3 tj-ii torsatron  
NT3 vint torsatron  
NT2 uragan stellarator  
NT2 wega stellarator  
NT2 wendelstein-2b stellarator  
NT2 wendelstein-7 stellarator*

*NT1 tokamak devices*

*NT2 act devices  
NT2 aditya tokamak  
NT2 alcator device  
NT2 asdex tokamak  
NT2 atc devices  
NT2 castor tokamak  
NT2 columbia high-beta tokamak  
NT2 compact ignition tokamak  
NT2 compass-d tokamak  
NT2 continuous current tokamak  
NT2 ct-6b tokamak  
NT2 dante tokamak  
NT2 dite tokamak  
NT2 doublet-2 device  
NT2 doublet-3 device  
NT2 eft tokamak  
NT2 ft tokamak  
NT2 hl-1 tokamak  
NT2 hl-1m tokamak  
NT2 hl-2 tokamak  
NT2 hl-2a tokamak  
NT2 ht-2 tokamak  
NT2 ht-6b tokamak  
NT2 ht-6m tokamak  
NT2 ht-7 tokamak  
NT2 ht-7u tokamak  
NT2 hybtok tokamaks  
NT2 ignition spherical torus  
NT2 intor tokamak  
NT2 isttok tokamak  
NT2 isx tokamak  
NT2 iter tokamak  
NT2 jet tokamak  
NT2 jft-2 tokamak  
NT2 jft-2a tokamak  
NT2 jft-2m tokamak  
NT2 jippt-2 device  
NT2 jt-60 tokamak  
NT2 jt-60u tokamak  
NT2 jxfr tokamak  
NT2 kt-2 tokamak  
NT2 lt-3 tokamak  
NT2 lt-4 tokamak  
NT2 mt-1 tokamak  
NT2 mtx tokamak  
NT2 net tokamak*

*NT2 ormak devices*

*NT2 pbx devices  
NT2 pdx devices  
NT2 petula tokamak  
NT2 phaedrus-t tokamak  
NT2 plt devices  
NT2 pulsator devices  
NT2 rtp tokamak  
NT2 sinp tokamak  
NT2 spheromak devices  
NT3 cdx-u spheromak  
NT3 ctx spheromak  
NT3 globus-m spheromak  
NT3 mast tokamak  
NT3 nstx device  
NT3 ssp device  
NT3 sunist spheromak  
NT3 ts-3 device  
NT2 st tokamak  
NT2 starfire tokamak  
NT2 start tokamak  
NT2 stor-m tokamak  
NT2 stx devices  
NT2 surmac tokamak  
NT2 t-10 tokamak  
NT2 t-14 tokamak  
NT2 t-15 tokamak  
NT2 t-7 tokamak  
NT2 tbr tokamak  
NT2 tea tokamak  
NT2 tcabr tokamak  
NT2 tev tokamak  
NT2 text devices  
NT2 textor tokamak  
NT2 tfr tokamak  
NT2 tft tokamak  
NT2 tiber-x tokamak  
NT2 tj-1 tokamak  
NT2 tnt-a tokamak  
NT2 tokapole devices  
NT2 tokoloshe tokamak  
NT2 tore supra tokamak  
NT2 tormac devices  
NT2 tortus tokamak  
NT2 torus-ii tokamak  
NT2 toska tokamak  
NT2 tpx device  
NT2 triam-1 tokamak  
NT2 tuman devices  
NT2 two-component torus  
NT2 uwmak devices  
NT2 varennes tokamak  
NT2 versator tokamak  
NT2 wt-3 tokamak  
NT1 toroidal pinch devices  
NT2 reversed-field pinch devices  
NT3 artemis device  
NT3 extrap-t2 device  
NT3 hbtx devices  
NT3 mst device  
NT3 rfx device  
NT3 tpe-1rm15 device  
NT3 tpe-rx device  
NT3 zt-40 devices  
NT3 zt-p devices  
NT2 tlp devices  
NT3 zeta devices  
NT2 toroidal screw pinch devices  
NT3 stp-3m device  
NT3 tpe-2 device  
NT2 toroidal theta pinch devices  
NT3 scyllac devices  
RT aspect ratio  
RT closed configurations  
RT trapped-particle instability*

**CLOSTRIDIUM**

*1997-06-17*

*\*BT1 bacteria*

**NT1** clostridium acetobutylicum  
**NT1** clostridium botulinum  
**NT1** clostridium butyricum  
**NT1** clostridium perfringens  
**NT1** clostridium thermocellum  
**NT1** clostridium thermosaccharolyticum  
*RT* proteolysis  
*RT* toxins

**CLOSTRIDIUM ACETOBUTYLICUM**

*INIS: 1985-09-09; ETDE: 1981-07-18*

\*BT1 clostridium  
 \*BT1 methanogenic bacteria

**CLOSTRIDIUM BOTULINUM**

\*BT1 clostridium

**CLOSTRIDIUM BUTYRICUM**

*INIS: 1985-09-09; ETDE: 1981-07-18*

\*BT1 clostridium

**CLOSTRIDIUM PERFRINGENS**

*UF* clostridium welchii

\*BT1 clostridium

**CLOSTRIDIUM THERMOCELLUM**

*INIS: 2000-04-12; ETDE: 1979-10-23*

\*BT1 clostridium  
*RT* enzymatic hydrolysis  
*RT* fermentation

**CLOSTRIDIUM THERMOSACCHAROLYTICUM**

*INIS: 2000-04-12; ETDE: 1981-07-18*

\*BT1 clostridium

**clostridium welchii**

*USE* clostridium perfringens

**CLOSURES**

*UF* plugs  
*RT* joints  
*RT* seals  
*RT* valves

**CLOTHES DRYERS**

*INIS: 1993-07-29; ETDE: 1977-06-21*

\*BT1 appliances  
 BT1 dryers  
*RT* clothes washers  
*RT* clothing  
*RT* electric appliances  
*RT* gas appliances

**CLOTHES WASHERS**

*INIS: 1993-07-29; ETDE: 1977-06-21*

*UF* washers, clothes  
 \*BT1 appliances  
*RT* clothes dryers  
*RT* clothing  
*RT* electric appliances  
*RT* gas appliances  
*RT* washing

**CLOTHING**

*UF* laundries  
*UF* shoes  
**NT1** protective clothing  
**NT2** gloves  
*RT* clothes dryers  
*RT* clothes washers  
*RT* consumer products  
*RT* textiles

**CLOUD CHAMBERS**

\*BT1 gas track detectors  
**NT1** diffusion chambers  
**NT1** expansion chambers

**CLOUD COVER**

1992-03-25

*UF* cloudiness (meteorology)  
*RT* clouds

*RT* meteorology

*RT* sky

*RT* storms

**cloudiness (meteorology)**

1992-03-25

*USE* cloud cover

**CLOUDS**

Limited to clouds in the earth atmosphere; for interstellar clouds see COSMIC DUST or COSMIC GASES.

**NT1** noctilucent clouds

**NT1** radioactive clouds

*RT* atmospheric precipitations

*RT* cloud cover

*RT* meteorology

*RT* sky

*RT* storms

*RT* water

*RT* weather

**CLOUDY CRYSTAL BALL MODEL**

\*BT1 nuclear models

*RT* optical models

**CLOVER**

\*BT1 leguminosae

*RT* forage

**CLUFF LAKE MINE**

*INIS: 1981-02-27; ETDE: 1981-03-13*

\*BT1 uranium mines

*RT* saskatchewan

**CLUSTER BEAM INJECTION**

BT1 beam injection

*RT* cluster beams

**CLUSTER BEAMS**

*INIS: 1976-03-25; ETDE: 1976-08-24*

BT1 beams

*RT* atomic clusters

*RT* cluster beam injection

*RT* molecular clusters

**CLUSTER EMISSION MODEL**

*INIS: 1976-02-11; ETDE: 1975-10-01*

A particle interaction model describing the emission of clusters having the potential to transfer charge from one center of mass hemisphere to the other, depending upon the rapidities of the clusters.

*UF* cluster model (particle)

*UF* hadronic clusters

\*BT1 multiperipheral model

**NT1** space-time model

*RT* charge-exchange interactions

*RT* fireball model

*RT* multiple production

*RT* pionization

**CLUSTER EXPANSION**

A virial expansion in which the virial coefficients (of inverse powers of the volume of the gas in question) are obtained from integrals, over positions of a small number of molecules, of functions involving intermolecular potentials.

BT1 series expansion

*RT* differential equations

**CLUSTER MODEL**

*UF* alpha particle model

*UF* cluster model (nuclear)

\*BT1 nuclear models

*RT* quartet model

*RT* vibron model

**cluster model (nuclear)**

*INIS: 1976-02-11; ETDE: 2002-06-13*

*USE* cluster model

**cluster model (particle)**

*INIS: 1976-02-11; ETDE: 2002-06-13*

*USE* cluster emission model

**clusters (fuel elements)**

*USE* fuel element clusters

**clusters (galaxy)**

*USE* galaxy clusters

**clusters (ion)**

*USE* ion pairs

**clusters (solid)**

*USE* solid clusters

**clusters (star)**

*USE* star clusters

**cmb radiation**

2003-05-30

*USE* relict radiation

**cmea**

*ETDE: 1979-05-03*

*USE* comecon

**CML REACTOR**

Battelle Pacific Northwest Laboratories, Richland, Washington, USA. Shut down in 1988.

*UF* critical mass laboratory pnl

*UF* pnl-cml reactor

\*BT1 zero power reactors

**cmni**

*INIS: 1996-10-22; ETDE: 1981-09-22*

5-chloro-1-methyl-4-nitroimidazole.

(Until October 1996 this was a valid descriptor.)

*USE* imidazoles

**CMPO**

1993-06-10

Octyl(phenyl)-N, N-diisobutylcarbamoylmethylphosphine oxide.

\*BT1 organic phosphorus compounds

\*BT1 phosphine oxides

*RT* solvent extraction

*RT* truex process

**cn method**

*INIS: 1984-04-04; ETDE: 1984-05-10*

*USE* spherical harmonics

**cna reactor**

*USE* atucha reactor

**cnea (argentina)**

*INIS: 1993-10-01; ETDE: 1993-11-08*

*USE* argentine cnea

**cnea (paraguay)**

2005-07-06

*USE* paraguay cnea

**CNEN**

Name changed to Comitato Nazionale per la Ricerca e lo Sviluppo dell'Energia Nucleare e delle Energie Alternative in April 1982, and more recent material should be indexed to ITALIAN ENEA.

*UF* comitato nazionale per l'energia nucleare

\*BT1 italian enea

**cnen brazil**

*INIS: 1982-08-27; ETDE: 1982-09-10*

*USE* brazilian cnen

**CNG PROCESS**

*INIS: 2000-04-12; ETDE: 1983-03-23*  
*Proprietary process for removing hydrogen sulfide, carbon dioxide, sulfur compounds, and trace elements from fuel gas.*  
 \*BT1 desulfurization  
 BT1 separation processes  
 RT coal gasification

**CNIDARIA**

\*BT1 coelenterata  
 NT1 corals  
 NT1 hydra

**CNO CYCLE**

*INIS: 1978-09-28; ETDE: 1978-10-19*  
*Astrophysical processes only.*  
 UF *bethe-weizsaecker cycle*  
 UF *carbon-nitrogen-oxygen cycle*  
 BT1 star burning  
 RT main sequence stars  
 RT nucleosynthesis  
 RT star evolution  
 RT star models

**CNRS SOLAR FACILITY**

*INIS: 2000-04-12; ETDE: 1982-02-08*  
*The Solar Furnace Facility at the National Center for Scientific Research (CNRS) at Odeillo, France.*  
 BT1 test facilities  
 RT france  
 RT solar furnaces

**cns depressants**

*INIS: 1984-05-28; ETDE: 2002-06-13*  
 USE central nervous system depressants

**cns stimulants**

*INIS: 1984-05-24; ETDE: 1981-04-20*  
 USE analeptics

**co-generation**

*INIS: 1982-12-03; ETDE: 1977-01-28*  
 (Prior to November 1980 this was a valid ETDE descriptor.)  
 USE cogeneration

**co2 flooding**

*INIS: 1992-01-15; ETDE: 1978-08-08*  
 USE carbon dioxide injection

**COAGULANTS**

*INIS: 1984-05-24; ETDE: 1981-04-20*  
 (From April 1981 to March 1997 HEMOSTATICS and HEPARIN ANTAGONISTS were valid ETDE descriptors.)  
 UF *hemostatics*  
 UF *heparin antagonists*  
 \*BT1 hematologic agents  
 NT1 protamines  
 RT anticoagulants  
 RT blood substitutes  
 RT fibrinolytic agents  
 RT hematinics

**coagulation (blood)**

USE blood coagulation

**coagulation (colloid)**

USE flocculation

**COAL**

1997-06-19  
 UF *coal-oil mixtures*  
 SF *rexco process*  
 \*BT1 carbonaceous materials  
 \*BT1 fossil fuels  
 NT1 black coal  
 NT2 anthracite  
 NT2 bituminous coal

NT1 brown coal  
 NT2 lignite  
 NT1 coal fines  
 NT1 sapropelic coal  
 NT2 boghead coal  
 NT3 torbanite  
 NT2 cannel coal  
 NT1 subbituminous coal  
 RT ash content  
 RT chars  
 RT coal deposits  
 RT coal extracts  
 RT coal-fired mhd generators  
 RT coal gas  
 RT coal gasification  
 RT coal liquefaction  
 RT coal pastes  
 RT coal rank  
 RT coal reserves  
 RT coalification  
 RT coke  
 RT coking  
 RT culm  
 RT fluidized-bed combustion  
 RT fluidized-bed combustors  
 RT gasification  
 RT lithotypes  
 RT macerals  
 RT national coal model  
 RT peat  
 RT slurry pipelines  
 RT solid fuels  
 RT solvent-refined coal  
 RT soot  
 RT stokers  
 RT sulfur content  
 RT volatile matter

**COAL BURNING APPLIANCES**

*INIS: 1993-01-22; ETDE: 1982-03-29*  
 UF *stoves (coal burning)*  
 \*BT1 appliances  
 RT stoves

**coal chars**

*INIS: 1984-04-04; ETDE: 2002-06-13*  
 USE chars

**coal chemicals**

*INIS: 2000-04-12; ETDE: 1979-09-27*  
 SEE coal extracts  
 SEE petrochemicals

**COAL DEPOSITS**

1991-10-01  
 UF *coalbed methane*  
 BT1 geologic deposits  
 \*BT1 mineral resources  
 NT1 coal seams  
 RT coal  
 RT coal producing districts  
 RT coal reserves  
 RT geophysical surveys  
 RT illinois basin  
 RT powder river basin

**coal-derived gases**

*INIS: 2000-04-12; ETDE: 1993-10-07*  
 USE coal gas

**coal-derived liquids**

*INIS: 1993-06-01; ETDE: 1976-12-16*  
 USE coal liquids

**COAL EXTRACTS**

2000-04-12  
 SF *coal chemicals*  
 RT coal

**COAL FINES**

1992-04-02  
 \*BT1 coal  
 RT briquets  
 RT pulverized fuels

**COAL-FIRED GAS TURBINES**

*INIS: 1992-03-10; ETDE: 1980-03-04*  
 (Prior to February 1980 GAS TURBINES was used for this concept in ETDE.)  
 \*BT1 gas turbines  
 RT coal gasification  
 RT combined-cycle power plants  
 RT fossil-fuel power plants  
 RT gas turbine engines  
 RT gas turbine power plants

**COAL-FIRED MHD GENERATORS**

1993-03-10  
 \*BT1 mhd generators  
 NT1 mhd generator cdif  
 NT1 mhd generator cfff  
 NT1 mhd generator etf  
 NT1 mhd generator utsi  
 RT coal  
 RT seed-slag interactions  
 RT spent seed

**COAL FUEL CELLS**

1992-05-20  
 \*BT1 fuel cells

**COAL GAS**

1991-10-02  
 UF *coal-derived gases*  
 UF *coke-oven gas*  
 \*BT1 gases  
 BT1 pyrolysis products  
 RT coal  
 RT fuel gas  
 RT town gas

**COAL GASIFICATION**

1997-06-17  
 UF *atgas process*  
 UF *avg process*  
 UF *ber process*  
 UF *bubiag-didier process*  
 UF *carbon dioxide acceptor process*  
 UF *conoco gasification process*  
 UF *csiro process*  
 UF *fw-stoic process*  
 UF *hoffman process*  
 UF *hyflex process*  
 UF *lichtenberg process*  
 UF *liquid phase methanation process*  
 UF *mcdowell-welman process*  
 UF *merc process*  
 UF *migas process*  
 UF *panindco process*  
 UF *patgas process*  
 UF *riley-morgan process*  
 UF *rockgas process*  
 UF *rombach process*  
 UF *schmalfeldt-wintershall process*  
 UF *selox process*  
 UF *simplex process*  
 UF *stone and webster coal solution gasification process*  
 UF *stone and webster gasification process*  
 UF *tri-gas process*  
 UF *wilputte process*  
 UF *zhuravlev process*  
 SF *cs-sr process*  
 SF *fischer-tropsch/mobil process*  
 SF *thyssen-galocsy process*  
 \*BT1 gasification  
 NT1 agglomerating ash process  
 NT1 arc coal process

**NT1** babcock and wilcox-dupont process  
**NT1** beacon process  
**NT1** bgc-lurgi slagging process  
**NT1** bi-gas process  
**NT1** ce entrained fuel process  
**NT1** coalcon process  
**NT1** cogas process  
**NT1** combined-cycle fw process  
**NT1** consol synthetic gas process  
**NT1** cs-r process  
**NT1** dow gasification process  
**NT1** exxon gasification process  
**NT1** flash hydrolysis process  
**NT1** gegas process  
**NT1** gkt process  
**NT1** htw process  
**NT1** humboldt gasification process  
**NT1** hydrane process  
**NT1** hygas process  
**NT1** i g process  
**NT1** kbw gasification process  
**NT1** kellogg process  
**NT1** kilngas process  
**NT1** kloekner-iron bath coal gasification process  
**NT1** koppers process  
**NT1** koppers-totzek process  
**NT1** krw gasification process  
**NT1** lurgi cfb gasification process  
**NT1** lurgi process  
**NT1** lurgi slagging process  
**NT1** molten iron puregas process  
**NT1** molten salt coal gasification process  
**NT1** moving-burden process  
**NT1** occidental flash pyrolysis process  
**NT1** otto rummel slag bath process  
**NT1** peatgas process  
**NT1** prenflo process  
**NT1** ruhr 100 gasification process  
**NT1** saarberg-otto gasification process  
**NT1** seaco process  
**NT1** shell-koppers gasification process  
**NT1** synthane process  
**NT1** texaco gasification process  
**NT1** toscodyne process  
**NT1** toscal process  
**NT1** u-gas process  
**NT1** wellman-galusha process  
**NT1** wellman-incandescent process  
**NT1** westinghouse gasification process  
**NT1** woodall-duckham process  
**RT** cng process  
**RT** coal  
**RT** coal-fired gas turbines  
**RT** coal gasification plants  
**RT** fluidized bed refuse gasification  
**RT** gasoline plants  
**RT** hot gas cleanup  
**RT** in-situ gasification  
**RT** methanol plants  
**RT** shift processes  
**RT** sng processes  
**RT** synthetic fuels  
**RT** thunderbird project

**COAL GASIFICATION PLANTS**

*INIS: 1991-10-02; ETDE: 1975-11-26*

**BT1** industrial plants  
**RT** coal gasification

**COAL INDUSTRY**

*1991-10-02*

**BT1** industry  
**RT** mineral industry

**COAL LIQUEFACTION**

*1982-12-03*

**UF** adl process  
**UF** arthur d little coal liquefaction process

**UF** ce lummus cfc process  
**UF** chevron coal liquefaction process  
**UF** coil process  
**UF** consol synthetic fuel process  
**UF** csf process  
**UF** friambient process  
**UF** leffc process  
**UF** lummus clean fuel firm coal process  
**UF** pott-broche process  
**UF** riser cracking  
**UF** uhde-pfirrmann process  
**UF** zinc halide process  
**SF** cresap process  
**SF** cs-sr process  
**SF** fischer-tropsch/mobil process  
**\*BT1** liquefaction  
**NT1** bcl process  
**NT1** bergius process  
**NT1** catalytic hydrosolvation process  
**NT1** cfc process  
**NT1** coed process  
**NT1** costeam process  
**NT1** dow liquefaction process  
**NT1** exxon liquefaction process  
**NT1** flash hydrolysis process  
**NT1** h-coal process  
**NT1** liquid phase methanol process  
**NT1** occidental flash pyrolysis process  
**NT1** pamco process  
**NT1** pyrosol process  
**NT1** sasol-ii process  
**NT1** sasol process  
**NT1** src-ii process  
**NT1** synthoil process  
**NT1** synthol process  
**NT1** tsl process  
**RT** clean coke process  
**RT** coal  
**RT** coal liquefaction plants  
**RT** coal liquids  
**RT** supercritical gas extraction  
**RT** synthetic fuels

**COAL LIQUEFACTION PLANTS**

*INIS: 1994-07-01; ETDE: 1976-02-19*

**BT1** industrial plants  
**RT** coal liquefaction

**COAL LIQUIDS**

*INIS: 1993-06-01; ETDE: 1976-02-19*

(Until June 1993, this concept was indexed by HYDROCARBONS.)

**UF** coal-derived liquids  
**\*BT1** liquids  
**RT** coal liquefaction  
**RT** lc-finng  
**RT** liquid fuels  
**RT** pyrolytic oils  
**RT** supercritical gas extraction  
**RT** synthetic petroleum

**COAL MINERS**

*INIS: 1992-05-08; ETDE: 1976-03-11*

**\*BT1** miners

**COAL MINES**

*1991-08-09*

**UF** collieries  
**UF** mine-mouth generating plants  
**\*BT1** mines  
**RT** abandoned shafts  
**RT** backfilling  
**RT** coal mining  
**RT** heading machines  
**RT** mine draining  
**RT** rock dusting

**COAL MINING**

*1991-08-09*

**BT1** mining  
**RT** acid mine drainage

**RT** advance mining  
**RT** belt conveyors  
**RT** coal mines  
**RT** coal producing districts  
**RT** cutter loaders  
**RT** cutting machines  
**RT** longwall mining  
**RT** mining engineering  
**RT** retreat mining  
**RT** room and pillar mining  
**RT** shearer loaders  
**RT** shortwall mining  
**RT** slice mining  
**RT** surface mining  
**RT** underground mining  
**RT** us osm

**coal-oil mixtures**

*INIS: 2000-04-12; ETDE: 1980-12-08*

**USE** coal  
**USE** fuel oils  
**USE** fuel slurries

**COAL PASTES**

*2000-04-12*

**RT** coal

**coal planers**

*INIS: 2000-04-12; ETDE: 1979-06-06*

**USE** coal plows

**coal ploughs**

*INIS: 2000-04-12; ETDE: 1979-06-06*

**USE** coal plows

**COAL PLOWS**

*INIS: 2000-04-12; ETDE: 1979-06-06*

**UF** coal planers

**UF** coal ploughs

**UF** plows (coal)

**\*BT1** cutter loaders

**COAL PREPARATION**

*INIS: 1999-05-06; ETDE: 1975-08-19*

*Grinding, screening, powdering, cleaning, etc., to prepare coal for industrial uses.*

**UF** convertol process

**SF** syracuse chemical comminution process

**NT1** licado process

**RT** cleaning

**RT** coal preparation plants

**RT** comminution

**RT** crushing

**RT** drying

**RT** flotation

**RT** heavy media separation

**RT** jpl process

**RT** rhodococcus

**RT** trw process

**RT** us clean coal technology program

**RT** washing

**RT** water removal

**COAL PREPARATION PLANTS**

*INIS: 1997-06-19; ETDE: 1976-06-07*

**SF** solvent-refining coal plants

**BT1** industrial plants

**RT** coal preparation

**RT** solvent-refined coal

**COAL PRODUCING DISTRICTS**

*INIS: 1992-04-08; ETDE: 1979-09-27*

**RT** coal deposits

**RT** coal mining

**COAL RANK**

*1991-10-02*

*The degree of metamorphism that the original plant debris has undergone during the geological ages since it was deposited.*

**RT** coal

*RT* coalification

**COAL RESERVES**

1991-10-02

\*BT1 reserves

*RT* coal

*RT* coal deposits

**COAL SEAMS**

*INIS: 1991-10-01; ETDE: 1978-05-03*

\*BT1 coal deposits

*RT* geologic strata

*RT* inclined strata

*RT* water influx

**COAL TAR**

\*BT1 bitumens

*RT* bituminous materials

*RT* coal tar acids

*RT* coal tar bases

*RT* coal tar oils

*RT* creosote

**COAL TAR ACIDS**

*INIS: 2000-04-12; ETDE: 1976-04-19*

\*BT1 organic acids

*RT* coal tar

*RT* coal tar oils

**COAL TAR BASES**

*INIS: 2000-04-12; ETDE: 1976-04-19*

BT1 bases

BT1 organic compounds

*RT* coal tar

*RT* coal tar oils

**COAL TAR OILS**

1992-07-22

\*BT1 oils

*RT* coal tar

*RT* coal tar acids

*RT* coal tar bases

**coalbed methane**

*INIS: 2000-04-12; ETDE: 1994-10-20*

USE coal deposits

USE methane

**COALCON PROCESS**

*INIS: 2000-04-12; ETDE: 1975-11-28*

*Low-temperature, intermediate-pressure process for hydrocarbonization of finely divided low-rank coal or high-boiling tars in a fluidized bed to produce chars, tars, and gases. It was originally designed for a subbituminous coal having high tar and potentially high phenolic yields during carbonization, but it is currently being developed for high-sulfur, high-volatile bituminous coals.*

\*BT1 coal gasification

*RT* carbonization

*RT* chars

**COALESCENCE**

*RT* adhesion

*RT* agglomeration

*RT* blood coagulation

*RT* bonding

*RT* coprecipitation

**COALIFICATION**

*INIS: 2000-04-12; ETDE: 1977-07-23*

*RT* coal

*RT* coal rank

*RT* diagenesis

*RT* geochemistry

*RT* petrology

**coaltek process**

*INIS: 2000-04-12; ETDE: 1976-07-07*

USE fuel feeding systems

**coarse control rods**

USE shim rods

**coarse mesh method**

*INIS: 1984-04-04; ETDE: 1984-05-10*

USE finite difference method

**coast**

USE shores

**COASTAL REGIONS**

*INIS: 1997-06-17; ETDE: 1976-02-19*

*Land areas of unspecified dimensions near sea or lake coastlines.*

NT1 river deltas

NT1 shores

*RT* coastal waters

*RT* coastal zone management acts

*RT* flood control

**COASTAL WATERS**

1997-06-19

*For use only in its geographic connotation; for the legal connotation use TERRITORIAL WATERS.*

BT1 surface waters

NT1 bays

NT2 bay of biscay

NT2 bay of fundy

NT2 biscayne bay

NT2 chesapeake bay

NT2 delaware bay

NT2 galveston bay

NT2 matagorda bay

NT2 onslow bay

NT2 prudhoe bay

NT2 sequim bay

NT1 estuaries

NT2 fiords

NT2 long island sound

*RT* coastal regions

*RT* coastal zone management acts

*RT* continental margin

*RT* continental shelf

*RT* continental slope

*RT* mid-atlantic bight

*RT* offshore sites

*RT* seas

*RT* shores

*RT* south atlantic bight

*RT* territorial waters

**coastal zone management act**

*INIS: 2000-04-12; ETDE: 1994-08-18*

USE coastal zone management acts

**COASTAL ZONE MANAGEMENT ACTS**

*INIS: 2000-04-12; ETDE: 1994-08-17*

*Before August 1994, this term was used in the singular form.*

UF coastal zone management act

BT1 laws

*RT* coastal regions

*RT* coastal waters

*RT* continental shelf

**COATED FUEL PARTICLES**

BT1 fuel particles

*RT* amoeba effect

**coating (surface)**

USE surface coating

**coating processes**

USE surface coating

**COATINGS**

NT1 antireflection coatings

NT1 black coatings

NT2 black nickel

NT1 diffusion coatings

NT1 dipped coatings

NT1 electrodeposited coatings

NT1 enamels

NT1 glazes

NT1 lacquers

NT1 paints

NT2 luminous paints

NT1 protective coatings

NT1 reflective coatings

NT1 spin-on coatings

NT1 sprayed coatings

NT1 vapor deposited coatings

NT1 varnishes

*RT* corrosion protection

*RT* coverings

*RT* deposits

*RT* films

*RT* heat mirrors

*RT* latex

*RT* masking

*RT* screen printing

*RT* solar absorbers

*RT* solar control films

*RT* surface coating

*RT* surface finishing

*RT* thin films

*RT* waterproofing

**COAXIAL CABLES**

\*BT1 electric cables

**COAXIAL FLOW REACTORS**

\*BT1 gas fueled reactors

**COBALT**

\*BT1 transition elements

**COBALT 49**

2007-01-24

\*BT1 cobalt isotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 nanoseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

**COBALT 50**

*INIS: 1992-09-22; ETDE: 1984-05-08*

\*BT1 cobalt isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

**COBALT 51**

2007-01-24

\*BT1 cobalt isotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

**COBALT 52**

1995-02-27

\*BT1 beta-plus decay radioisotopes

\*BT1 cobalt isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

**COBALT 53**

\*BT1 beta-plus decay radioisotopes

\*BT1 cobalt isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

**COBALT 54**

\*BT1 beta-plus decay radioisotopes

\*BT1 cobalt isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**COBALT 55**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COBALT 56**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**COBALT 56 TARGET**

*INIS: 1982-10-28; ETDE: 1982-11-30*  
BT1 targets

**COBALT 57**

- \*BT1 cobalt isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COBALT 57 TARGET**

*INIS: 1977-01-25; ETDE: 1977-04-13*  
BT1 targets

**COBALT 58**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei

**COBALT 58 TARGET**

*INIS: 1976-07-06; ETDE: 1976-08-24*  
BT1 targets

**COBALT 59**

- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**COBALT 59 REACTIONS**

*1984-11-30*  
\*BT1 heavy ion reactions

**COBALT 59 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**COBALT 60**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**COBALT 60 TARGET**

*INIS: 1975-12-09; ETDE: 1976-07-12*  
BT1 targets

**COBALT 61**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COBALT 62**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**COBALT 63**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**COBALT 64**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**COBALT 65**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**COBALT 66**

*INIS: 1986-01-21; ETDE: 1986-02-21*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**COBALT 67**

*INIS: 1986-01-21; ETDE: 1986-02-21*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**COBALT 68**

*INIS: 1986-08-19; ETDE: 1986-09-05*  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei

**COBALT 69**

*INIS: 1986-08-19; ETDE: 1986-09-05*  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei

**COBALT 70**

*INIS: 1986-08-19; ETDE: 1986-09-05*  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei

**COBALT 71**

*2007-01-24*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**COBALT 72**

*2007-01-24*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**COBALT 73**

*2007-01-24*  
\*BT1 beta-minus decay radioisotopes

- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**COBALT 74**

*2007-01-24*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei

**COBALT 75**

*2007-01-24*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei

**COBALT ADDITIONS**

*Alloys containing not more than 1% Co are listed here.*

- \*BT1 cobalt alloys
- NT1 alloy-ni43fe33cr16mo3
- NT2 nimonic pe16
- NT1 alloy-ni62cr16mo15fe3
- NT2 hastelloy s
- NT1 steel-cr18ni11nbco
- NT2 stainless steel-348

**COBALT ALLOYS**

*1996-11-13*  
*Alloys containing more than 1% Co.*

- \*BT1 transition element alloys
- NT1 alloy-b-1900
- NT1 alloy-fe44ni33cr21
- NT2 incoloy 800h
- NT1 alloy-fe53ni29co18
- NT2 kovar
- NT1 alloy-mar-m246
- NT1 alloy-mp35n
- NT1 alloy-ni46cr23co19ti5al4
- NT2 alloy-in-939
- NT1 alloy-ni49cr22fe18mo9
- NT2 hastelloy x
- NT1 alloy-ni50co20cr15al5mo5
- NT2 nimonic 105
- NT1 alloy-ni54cr22co13mo9
- NT2 inconel 617
- NT1 alloy-ni54mo17cr16fe6w4
- NT2 hastelloy c
- NT1 alloy-ni55co17cr15mo5al4ti4
- NT2 astroloy
- NT1 alloy-ni55cr19co11mo10ti3
- NT2 rene 41
- NT1 alloy-ni58cr20co14mo4ti3
- NT2 waspaloy
- NT1 alloy-ni59cr20co17ti2
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ni65mo28fe5
- NT2 hastelloy b
- NT1 alloy-ra-333
- NT1 alloy-s-590
- NT1 alloy-s-816
- NT1 alloy-v-36
- NT1 alloy-yundk 25ba
- NT1 alnico alloys
- NT1 carboloy
- NT1 cobalt additions
- NT2 alloy-ni43fe33cr16mo3
- NT3 nimonic pe16
- NT2 alloy-ni62cr16mo15fe3
- NT3 hastelloy s
- NT2 steel-cr18ni11nbco
- NT3 stainless steel-348
- NT1 cobalt base alloys
- NT2 alloy-co43cr20fe18ni13w3



**NT3** havar  
**NT2** alloy-co50fe50  
**NT3** permendur  
**NT2** alloy-co52fe35v10  
**NT2** haynes alloys  
**NT3** alloy-co36cr22ni22w15fe3  
**NT4** haynes 188 alloy  
**NT3** alloy-co54cr20w15ni10  
**NT4** alloy-hs-25  
**NT4** haynes 25 alloy  
**NT3** alloy-co60cr30w4  
**NT4** stellite 6  
**NT2** mar-m509 alloys  
**NT2** stellite  
**NT3** alloy-co54cr20w15ni10  
**NT4** alloy-hs-25  
**NT4** haynes 25 alloy  
**NT3** alloy-co60cr30w4  
**NT4** stellite 6  
**NT3** alloy-hs-31  
**NT2** tribaloy 400  
**NT2** tribaloy 800  
**NT1** cunico  
**NT1** hiparco  
**NT1** kanthal  
**NT1** konel  
**NT1** magnet steel-ks  
**NT1** nimonic 115  
**NT1** rene-100  
**NT1** rene 80  
**NT1** rene 95  
**NT1** supertherm  
**NT1** timken alloys  
**NT1** udimet alloys  
**NT2** alloy-ni53co19cr15mo5al4ti3  
**NT3** udimet 700  
**NT2** udimet 500  
**NT1** vitallium

**COBALT ARSENIDES**

*INIS: 1991-09-16; ETDE: 1976-08-04*

\*BT1 arsenides  
 \*BT1 cobalt compounds

**COBALT BASE ALLOYS**

*1996-11-13*

(The UF terms below have been valid ETDE descriptors.)

*UF alloy-co52cr17fe15mo3si3*  
*UF alloy-co52fe35v13*  
*UF alloy-l-605*  
*UF vikalloy 1*  
*UF vikalloy 2*  
 \*BT1 cobalt alloys  
**NT1** alloy-co43cr20fe18ni13w3  
**NT2** havar  
**NT1** alloy-co50fe50  
**NT2** permendur  
**NT1** alloy-co52fe35v10  
**NT1** haynes alloys  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT1** mar-m509 alloys  
**NT1** stellite  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-hs-31  
**NT1** tribaloy 400  
**NT1** tribaloy 800

**COBALT BORIDES**

\*BT1 borides

\*BT1 cobalt compounds

**COBALT BROMIDES**

\*BT1 bromides  
 \*BT1 cobalt compounds

**COBALT CARBIDES**

\*BT1 carbides  
 \*BT1 cobalt compounds

**COBALT CARBONATES**

\*BT1 carbonates  
 \*BT1 cobalt compounds

**COBALT CHLORIDES**

\*BT1 chlorides  
 \*BT1 cobalt compounds

**COBALT COMPLEXES**

\*BT1 transition element complexes

**COBALT COMPOUNDS**

*1997-06-17*

BT1 transition element compounds  
**NT1** cobalt arsenides  
**NT1** cobalt borides  
**NT1** cobalt bromides  
**NT1** cobalt carbides  
**NT1** cobalt carbonates  
**NT1** cobalt chlorides  
**NT1** cobalt fluorides  
**NT1** cobalt hydrides  
**NT1** cobalt hydroxides  
**NT1** cobalt iodides  
**NT1** cobalt nitrates  
**NT1** cobalt oxides  
**NT1** cobalt perchlorates  
**NT1** cobalt phosphates  
**NT1** cobalt phosphides  
**NT1** cobalt selenides  
**NT1** cobalt silicates  
**NT1** cobalt silicides  
**NT1** cobalt sulfates  
**NT1** cobalt sulfides  
**NT1** cobalt tellurides  
**NT1** cobalt tungstates

**COBALT FLUORIDES**

\*BT1 cobalt compounds  
 \*BT1 fluorides

**COBALT HYDRIDES**

\*BT1 cobalt compounds  
 \*BT1 hydrides

**COBALT HYDROXIDES**

\*BT1 cobalt compounds  
 \*BT1 hydroxides

**COBALT IODIDES**

\*BT1 cobalt compounds  
 \*BT1 iodides

**COBALT IONS**

\*BT1 ions

**COBALT ISOTOPES**

*1999-07-16*

BT1 isotopes  
**NT1** cobalt 49  
**NT1** cobalt 50  
**NT1** cobalt 51  
**NT1** cobalt 52  
**NT1** cobalt 53  
**NT1** cobalt 54  
**NT1** cobalt 55  
**NT1** cobalt 56  
**NT1** cobalt 57  
**NT1** cobalt 58  
**NT1** cobalt 59  
**NT1** cobalt 60  
**NT1** cobalt 61  
**NT1** cobalt 62

**NT1** cobalt 63

**NT1** cobalt 64  
**NT1** cobalt 65  
**NT1** cobalt 66  
**NT1** cobalt 67  
**NT1** cobalt 68  
**NT1** cobalt 69  
**NT1** cobalt 70  
**NT1** cobalt 71  
**NT1** cobalt 72  
**NT1** cobalt 73  
**NT1** cobalt 74  
**NT1** cobalt 75

**COBALT NITRATES**

\*BT1 cobalt compounds  
 \*BT1 nitrates

**COBALT ORES**

BT1 ores

**COBALT OXIDES**

\*BT1 cobalt compounds  
 \*BT1 oxides  
*RT kirchheimerite*  
*RT oxide minerals*

**COBALT PERCHLORATES**

*INIS: 2000-04-12; ETDE: 1975-12-16*

\*BT1 cobalt compounds  
 \*BT1 perchlorates

**COBALT PHOSPHATES**

\*BT1 cobalt compounds  
 \*BT1 phosphates

**COBALT PHOSPHIDES**

*INIS: 1977-07-05; ETDE: 1975-09-11*

\*BT1 cobalt compounds  
 \*BT1 phosphides

**COBALT SELENIDES**

*INIS: 1991-09-16; ETDE: 1980-03-04*

\*BT1 cobalt compounds  
 \*BT1 selenides

**COBALT SILICATES**

\*BT1 cobalt compounds  
 \*BT1 silicates

**COBALT SILICIDES**

*1978-08-30*

\*BT1 cobalt compounds  
 \*BT1 silicides

**COBALT SULFATES**

\*BT1 cobalt compounds  
 \*BT1 sulfates

**COBALT SULFIDES**

\*BT1 cobalt compounds  
 \*BT1 sulfides

**COBALT TELLURIDES**

*INIS: 1991-09-16; ETDE: 1978-06-14*

\*BT1 cobalt compounds  
 \*BT1 tellurides

**COBALT TUNGSTATES**

*INIS: 1991-09-16; ETDE: 1978-07-05*

\*BT1 cobalt compounds  
 \*BT1 tungstates

**COBOL**

BT1 programming languages

**cobordism theory**

*2000-04-12*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE topology

**cobra reactor**

1995-01-11

USE kbr-1 reactor

**COCAINE**

\*BT1 alkaloids

\*BT1 anesthetics

\*BT1 antidepressants

**COCKCROFT-WALTON****ACCELERATORS**

\*BT1 electrostatic accelerators

**COCKROACHES**

\*BT1 dictyoptera

**cocoa beans**

INIS: 1977-01-26; ETDE: 2002-06-13

USE cocoa products

**COCOA PRODUCTS**

UF cocoa beans

BT1 food

RT cacao trees

**COCOMBUSTION**

INIS: 1991-10-03; ETDE: 1981-08-04

*The simultaneous burning of two fuels in a boiler, e.g., coal and biomass.*

UF cofiring

\*BT1 combustion

**COCONUT PALMS**

\*BT1 liliopsida

\*BT1 trees

RT coconuts

**COCONUTS**

\*BT1 fruits

RT coconut palms

**CODEINE**

1996-07-08

\*BT1 alkaloids

\*BT1 analgesics

\*BT1 hypnotics and sedatives

RT heroin

RT morphine

**codeinone**

INIS: 1984-04-04; ETDE: 1978-07-06

(Prior to April 1994, this was a valid ETDE descriptor.)

USE alkaloids

**CODFISH**

\*BT1 fishes

**coding circuits**

USE digital circuits

**CODLING MOTH**UF *carpocapsa pomonella*

\*BT1 moths

RT apples

**CODONS**

RT gene operons

RT gene regulation

RT genes

RT nucleotides

RT ribosomes

**COED PROCESS**

2000-04-12

*FMC corporation process that converts coal to synthetic crude oil, gas, and char in four fluidized-bed gasification stages at 315, 450, 540, and 840 degrees C.*

UF char oil energy development process

\*BT1 coal liquefaction

**COEFFICIENT OF PERFORMANCE**

INIS: 2000-04-12; ETDE: 1979-01-30

RT air conditioners

RT efficiency

RT heat pumps

RT performance

RT refrigerating machinery

RT refrigerators

RT thermodynamics

**COELENTERATA**

ETDE: 1977-01-28

(Prior to October 1990 this subject was indexed to CNIDARIA.)

UF coelenterates

\*BT1 invertebrates

NT1 cnidaria

NT2 corals

NT2 hydra

**coelenterates**

INIS: 1975-09-12; ETDE: 2002-06-13

USE coelenterata

**coenzyme i**

USE nad

**coenzyme ii**

USE nadp

**COENZYMES**

NT1 nad

NT1 nadh2

NT1 nadp

NT1 ubiquinone

RT apolipoproteins

RT biochemistry

RT biosynthesis

RT catalysis

RT cytochromes

RT enzymes

RT isoalloxazines

RT metabolism

RT pyridoxal

RT redox process

RT vitamin b group

**coercion**

INIS: 2000-04-12; ETDE: 1983-03-23

*Compulsion, constraint, or compelling by force.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE legal aspects

**COERCIVE FORCE**

RT magnetic properties

**coesite**

INIS: 2000-04-12; ETDE: 1978-07-06

*A polymorph of silicon dioxide.*

(Prior to February 1995, this was a valid ETDE descriptor.)

USE oxide minerals

USE silicon oxides

**COEXTRUSION**

\*BT1 extrusion

**coffee**

USE beverages

**COFFEE BEANS**

INIS: 1978-11-24; ETDE: 1978-12-20

BT1 seeds

RT beverages

RT coffee plants

**COFFEE PLANTS**

\*BT1 magnoliopsida

RT coffee beans

**COFFINITE**

\*BT1 silicate minerals

\*BT1 uranium minerals

**cofiring**

INIS: 1991-10-03; ETDE: 1981-10-24

USE cocombustion

**COFRENTES REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-02

*Cofrents, Valencia, Spain.*

\*BT1 bwr type reactors

**COGAS PROCESS**

2000-04-12

*A two step coal conversion process involving pyrolysis followed by gasification of the resultant char.*

\*BT1 coal gasification

**COGEMA**

INIS: 1977-03-29; ETDE: 1977-06-02

UF *compagnie generale des matieres nucleaires*

\*BT1 french organizations

NT1 cogema la hague

NT1 cogema marcoule

NT1 cogema pierrelatte

**COGEMA LA HAGUE**

INIS: 1977-03-29; ETDE: 1977-06-02

\*BT1 cogema

\*BT1 fuel reprocessing plants

**COGEMA MARCOULE**

INIS: 1977-03-29; ETDE: 1977-06-03

\*BT1 cogema

**COGEMA PIERRELATTE**

INIS: 1977-03-29; ETDE: 1977-06-03

\*BT1 cogema

\*BT1 gaseous diffusion plants

**COGENERATION**

INIS: 1982-12-03; ETDE: 1980-10-27

(Prior to November 1980, this concept in ETDE was indexed to co-generation. From November 1978 till February 1997 DEUS was a valid ETDE descriptor.)

UF *co-generation*UF *combined heat-power generation*UF *combined steam-power generation*UF *deus*UF *dual energy use systems*

BT1 power generation

BT1 steam generation

RT district heating

RT dual-purpose power plants

RT energy systems

RT refuse-fueled power plants

RT thermal transmission ices

RT total energy systems

RT waste heat

RT waste heat boilers

RT waste heat utilization

RT waste product utilization

**cogeneration plants**

INIS: 2000-04-12; ETDE: 1981-06-13

USE dual-purpose power plants

**COHERENCE LENGTH**

1999-07-20

*The range of interaction between the electrons of a Cooper pair.*

\*BT1 length

RT cooper pairs

RT ginzburg-landau theory

RT superconductivity

**COHERENT ACCELERATORS**

1985-12-10

(Prior to 1986 COLLECTIVE ACCELERATORS was used for this concept.)

BT1 accelerators  
RT collective accelerators**coherent anti-stokes raman spectroscopy**

INIS: 1986-04-04; ETDE: 1983-03-07

USE raman spectroscopy

**COHERENT PRODUCTION**\*BT1 particle interactions  
BT1 particle production  
RT coherent tube model**COHERENT RADIATION**

\*BT1 electromagnetic radiation

**COHERENT SCATTERING**BT1 scattering  
NT1 brillouin effect  
NT1 diffraction  
NT2 atomic beam diffraction  
NT2 diffuse scattering  
NT2 electron diffraction  
NT2 neutron diffraction  
NT2 x-ray diffraction  
NT1 rayleigh scattering  
RT anharmonic crystals  
RT elastic scattering**coherent states**

INIS: 1984-04-04; ETDE: 2002-06-13

*Eigenstates of annihilation operators.*USE annihilation operators  
USE eigenstates**COHERENT TUBE MODEL**

INIS: 1977-06-13; ETDE: 1977-10-20

UF collective tube model  
UF tube model\*BT1 nuclear models  
\*BT1 particle models  
RT coherent production  
RT incoherent production  
RT multiple production  
RT nuclear reactions  
RT particle interactions**coil process**

INIS: 2000-04-12; ETDE: 1978-04-06

*A process for hydrogenerating a mixture of petroleum and coal.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal liquefaction

**coils (electric)**

USE electric coils

**coils (magnetic)**

USE magnet coils

**COINCIDENCE CIRCUITS**BT1 electronic circuits  
RT anticoincidence  
RT coincidence methods  
RT pulse circuits  
RT telescope counters  
RT time measurement**COINCIDENCE METHODS**BT1 counting techniques  
NT1 coincidence spectrometry  
NT1 tagged photon method  
RT coincidence circuits  
RT positron cameras  
RT synchronization**COINCIDENCE SPECTROMETRY**\*BT1 coincidence methods  
RT radiation detection  
RT spectrometers**COKE**

1999-07-09

UF beehive coke  
UF petroleum coke  
NT1 coke breeze  
NT1 oven coke  
RT coal  
RT coke ovens  
RT coking  
RT formed coke processes  
RT fossil fuels  
RT semicoke  
RT semicoking  
RT solid fuels**COKE BREEZE**

INIS: 2000-04-12; ETDE: 1979-12-10

BT1 coke

**coke-oven gas**

1991-10-02

USE coal gas

**COKE OVENS**

INIS: 1992-06-30; ETDE: 1975-07-29

*Ovens for carbonization of coal to produce coke.*UF slot ovens  
RT carbonization  
RT coke  
RT coking  
RT coking plants  
RT formed coke processes**COKING**

1991-10-03

*Destructive distillation of coal to make coke.*\*BT1 carbonization  
RT clean coke process  
RT coal  
RT coke  
RT coke ovens  
RT coking plants  
RT retorting  
RT semicoke  
RT semicoking**COKING PLANTS**

INIS: 1991-10-03; ETDE: 1979-06-06

BT1 industrial plants  
RT coke ovens  
RT coking**colby event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**COLCHICINE**\*BT1 alkaloids  
\*BT1 antimetabolic drugs  
\*BT1 antipyretics  
RT polyploidy**COLD CATHODE TUBES**

BT1 electron tubes

**COLD EFFLUENTS**

INIS: 2000-04-12; ETDE: 1976-08-04

RT thermal effluents

**COLD FISSION**

INIS: 1992-05-07; ETDE: 1992-08-12

\*BT1 fission  
RT heavy ion emission decay  
RT kinetic energy**COLD FUSION**

1991-07-02

BT1 nuclear reactions  
RT thermonuclear reactions**COLD LAKE DEPOSIT**

1992-03-05

\*BT1 oil sand deposits  
RT alberta  
RT canada  
RT oil sands  
RT saskatchewan**COLD NEUTRONS***Neutrons of less velocity than thermal neutrons; at 15 c their energy is below 0.01 eV.*\*BT1 neutrons  
NT1 ultracold neutrons**COLD PLASMA**

BT1 plasma

**COLD PRESSING**\*BT1 pressing  
RT cold working**cold recovery**

INIS: 2000-04-12; ETDE: 1981-05-18

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE heat sinks  
SEE refrigeration**COLD STORAGE**

INIS: 1993-01-18; ETDE: 1979-02-23

\*BT1 energy storage  
RT evaporative cooling  
RT heat storage  
RT rock beds  
RT solar cooling systems**COLD TRAPS**BT1 traps  
BT1 vapor condensers**COLD-WATER PROCESSES**

INIS: 2000-04-12; ETDE: 1976-06-07

*Processes used for recovery of bitumens from tar sands using various types of cationic, anionic and nonanionic wetting agents.*BT1 fluid injection processes  
RT bitumens  
RT oil sands**COLD WORKING**\*BT1 materials working  
NT1 shot peening  
RT cold pressing  
RT dislocation pinning  
RT drawing  
RT extrusion  
RT forging  
RT hardening  
RT rolling  
RT strain aging  
RT strain hardening  
RT surface hardening**COLEOPTERA**

INIS: 1993-07-13; ETDE: 1981-06-16

\*BT1 insects  
NT1 beetles  
NT2 boll weevil  
NT2 tribolium**COLEOPTILE**RT germination  
RT seedlings

**coleus**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE herbs

USE magnoliopsida

**COLIFORMS***Restricted to papers on water purity analysis.*

\*BT1 bacteria

RT aerobacter

RT escherichia coli

**COLLAGEN**

\*BT1 scleroproteins

RT connective tissue

RT fibroblasts

RT hydroxyproline

RT proline

**collapse (gravitational)**

INIS: 1984-02-22; ETDE: 2002-06-13

USE gravitational collapse

**COLLECTIVE ACCELERATORS**

BT1 accelerators

NT1 electron-ring accelerators

NT1 ionization front accelerators

NT1 plasma betatrons

RT coherent accelerators

**COLLECTIVE EXCITATIONS**

1985-12-10

*See also COLLECTIVE MODEL.*

\*BT1 excitation

RT superconductivity

**COLLECTIVE MODEL**UF *collective motion (in nuclei)*

\*BT1 nuclear models

NT1 rotation-vibration model

RT boson expansion

RT davydov-filipov model

RT hill-wheeler theory

RT quasiparticle-phonon model

**collective motion (in nuclei)**

INIS: 1975-11-27; ETDE: 2002-06-13

USE collective model

**collective states (rotational)**

INIS: 1984-06-25; ETDE: 2002-06-13

USE rotational states

**collective states (vibrational)**

INIS: 1993-11-04; ETDE: 2002-06-13

USE vibrational states

**collective tube model**

INIS: 2000-04-12; ETDE: 1980-03-04

USE coherent tube model

**collector module test facility**

INIS: 2000-04-12; ETDE: 1980-11-08

USE msstf

**collector properties**

INIS: 2000-04-12; ETDE: 1984-03-06

*For reservoir rock.*

USE permeability

USE porosity

**collector properties (rocks)**

INIS: 2000-04-12; ETDE: 1984-02-23

USE permeability

USE porosity

**collectors (dust)**

INIS: 1976-10-07; ETDE: 2002-06-13

USE dust collectors

**collectrons**

USE self-powered neutron detectors

**college station texas training reactor**

INIS: 1993-11-04; ETDE: 2002-06-13

USE nscr reactor

**colleges**

INIS: 1983-06-30; ETDE: 1983-07-20

USE educational facilities

**collider detector at fermilab**

INIS: 1991-12-17; ETDE: 1985-12-13

USE fermilab collider detector

**COLLIDING BEAMS**UF *crossed beams*UF *intersecting beams*

BT1 beams

RT beam-beam interactions

RT beam luminosity

RT interactions

RT linear colliders

**collieries**

INIS: 2000-04-12; ETDE: 1977-06-24

USE coal mines

**COLLIMATORS**

RT beam optics

RT radiotherapy

RT shielding

RT shutters

RT tomography

**COLLISION INTEGRALS**

BT1 integrals

RT boltzmann equation

RT collision probability method

**collision matrix**

USE s matrix

**COLLISION PROBABILITY METHOD**

2005-02-25

*Numerical method for solving integral neutron transport equations.*

BT1 calculation methods

\*BT1 numerical solution

RT boltzmann equation

RT collision integrals

RT neutron transport theory

**COLLISIONAL HEATING**

\*BT1 magnetic-pumping heating

**COLLISIONAL PLASMA**

BT1 plasma

RT pfirsch-schlueter regime

**collisionless boltzmann equation**

INIS: 2000-04-12; ETDE: 1995-09-22

USE boltzmann-vlasov equation

**COLLISIONLESS PLASMA**

BT1 plasma

**COLLISIONS***For low-energy interactions involving photons, electrons, ions, atoms, and molecules; not for the concept covered by NUCLEAR REACTIONS. For collisions with elementary particles and radiations, see also INTERACTIONS.*

NT1 atom collisions

NT2 atom-atom collisions

NT2 atom-molecule collisions

NT2 electron-atom collisions

NT2 ion-atom collisions

NT2 muon-atom collisions

NT2 photon-atom collisions

NT2 positron-atom collisions

NT1 electron collisions

NT2 electron-atom collisions

NT2 electron-electron collisions

NT2 electron-ion collisions

NT2 electron-molecule collisions

NT2 electron-positron collisions

NT2 photon-electron collisions

NT1 ion collisions

NT2 electron-ion collisions

NT2 ion-atom collisions

NT2 ion-ion collisions

NT2 ion-molecule collisions

NT2 photon-ion collisions

NT2 positron-ion collisions

NT1 molecule collisions

NT2 atom-molecule collisions

NT2 electron-molecule collisions

NT2 ion-molecule collisions

NT2 molecule-molecule collisions

NT2 photon-molecule collisions

NT2 positron-molecule collisions

NT1 photon collisions

NT2 photon-atom collisions

NT2 photon-electron collisions

NT2 photon-ion collisions

NT2 photon-molecule collisions

NT2 photon-positron collisions

NT1 positron collisions

NT2 electron-positron collisions

NT2 photon-positron collisions

NT2 positron-atom collisions

NT2 positron-ion collisions

NT2 positron-molecule collisions

NT2 positron-positron collisions

RT brownian movement

RT colloids

RT coupled channel theory

RT dynamics

RT interactions

RT kinetic equations

RT kinetics

RT landau-zener formula

RT particle kinematics

RT pss method

RT scattering

RT sudden approximation

**collodion**

USE nitrocellulose

**colloid coagulation**

USE flocculation

**COLLOIDS**

BT1 dispersions

NT1 agar

NT1 alginic acid

NT1 emulsions

NT2 microemulsions

NT2 photographic emulsions

NT1 foams

NT2 plastic foams

NT2 urea-formaldehyde foams

NT1 gelatin

NT1 gels

NT2 hydrogels

NT2 hydrophilic polymers

NT1 radiocolloids

NT2 thorotrast

NT1 sols

NT2 aerosols

NT3 radioactive aerosols

NT3 smokes

NT4 tobacco smokes

RT brownian movement

RT collisions

RT dialysis

RT gelation

RT gums

RT micellar systems  
 RT particle size  
 RT particles  
 RT sol-gel process  
 RT superconducting colloid detectors

**COLMONOY**

\*BT1 boron alloys  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 iron alloys  
 \*BT1 nickel base alloys  
 \*BT1 silicon alloys

**cologne spirits**

USE ethanol

**COLOMBIA**

BT1 developing countries  
 \*BT1 south america  
 RT andes

**COLOMBIAN ORGANIZATIONS**

INIS: 1987-04-28; ETDE: 1987-06-09

BT1 national organizations  
 NT1 ian

**colon**

USE large intestine

**colonies**

USE populations

**COLONY FORMATION**

INIS: 1976-07-30; ETDE: 1976-11-01

NT1 spleen colony formation  
 RT animal cells  
 RT cell cultures  
 RT cloning

**COLONY FORMING UNITS**

ETDE: 2005-01-28

Limited to colony formation on spleen.

(Prior to January 2005 CFU was used for this concept.)

UF cfu (colony forming units)  
 RT spleen colony formation  
 RT stem cells

**COLOR**

\*BT1 optical properties  
 BT1 organoleptic properties  
 RT dichroism  
 RT electrochromism

**COLOR CENTERS**

1996-07-23

(B CENTERS and Q CENTERS have also been valid ETDE descriptors.)

UF b centers  
 UF q centers  
 \*BT1 vacancies  
 NT1 a centers  
 NT1 e centers  
 NT1 f centers  
 NT1 h centers  
 NT1 i centers  
 NT1 m centers  
 NT1 r centers  
 NT1 s centers  
 NT1 u centers  
 NT1 v centers  
 NT1 x centers  
 NT1 z centers

**COLOR MODEL**

1975-09-16

\*BT1 quark model  
 RT charm particles  
 RT glueballs  
 RT preons  
 RT quantum chromodynamics

**COLORADO**

1997-06-19

UF crystal river  
 \*BT1 usa  
 NT1 mahogany zone  
 NT1 sand wash basin  
 RT colorado river basin  
 RT green river formation  
 RT gunnison river  
 RT north platte river basin  
 RT paradox basin  
 RT permian basin  
 RT piceance creek  
 RT piceance creek basin  
 RT rio blanco oil shale project  
 RT rio grande rift  
 RT rio grande river  
 RT rocky flats plant  
 RT uinta basin  
 RT uinta formation  
 RT us naval oil shale reserves  
 RT wasatch formation  
 RT white river  
 RT yellow creek  
 RT yellow creek basin

**COLORADO PLATEAU**

BT1 mountains

**COLORADO RIVER**

\*BT1 rivers  
 RT colorado river basin

**COLORADO RIVER BASIN**

1991-10-03

BT1 watersheds  
 RT colorado  
 RT colorado river

**COLORADO TRIGA-MK-3 REACTOR**

2000-04-12

SF triga-mk-3 reactor  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**COLORATION**

RT bleaching

**COLORIMETRIC DOSEMETERS**

\*BT1 dosimeters  
 RT dyes  
 RT glass  
 RT polymers

**colorimetry**

USE absorption spectroscopy

**columbia generating station**

2005-09-15

USE wnp-2 reactor

**COLUMBIA HIGH-BETA TOKAMAK**

INIS: 1991-08-12; ETDE: 1991-09-13

UF hbt-ep  
 \*BT1 tokamak devices

**columbia missouri research reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE murr reactor

**COLUMBIA RIVER**

\*BT1 rivers  
 RT columbia river basin  
 RT washington

**COLUMBIA RIVER BASIN**

INIS: 1991-10-03; ETDE: 1978-10-23

BT1 watersheds  
 NT1 pasco basin  
 RT columbia river  
 RT idaho

RT oregon  
 RT washington

**columbium**

USE niobium

**COLUMN PACKING**

UF berl saddles  
 UF packing (column)  
 UF raschig rings  
 BT1 packings  
 RT extraction columns

**column separation (fluid mechanics)**

INIS: 1990-12-07; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

USE cavitation

**column separation (isotopes)**

INIS: 1990-12-07; ETDE: 2002-06-13

USE isotope separation

**columns (extraction)**

USE extraction columns

**columns (mechanical)**

2000-04-12

USE mechanical structures

**columns (structural)**

INIS: 1983-09-06; ETDE: 2002-06-13

(Prior to October 1983 MECHANICAL STRUCTURES was used for this concept.)

USE supports

**columns (thermal)**

USE thermal columns

**COMANCHE PEAK-1 REACTOR**

TXU Generating Co. LP, Glen Rose, Texas, USA.

\*BT1 pwr type reactors

**COMANCHE PEAK-2 REACTOR**

TXU Generating Co. LP, Glen Rose, Texas, USA.

\*BT1 pwr type reactors

**COMBINED COLLECTORS**

INIS: 2000-04-12; ETDE: 1978-09-11

Combined photovoltaic/thermal collectors.

\*BT1 solar collectors  
 RT photovoltaic cells  
 RT solar cells

**COMBINED-CYCLE FW PROCESS**

INIS: 2000-04-12; ETDE: 1977-05-07

Process using a two-stage entrained gasifier similar to the bi-gas design, operating at moderate pressure and using air, that can be modified to oxygen blowing.

UF foster wheeler gasification process

\*BT1 coal gasification  
 RT entrainment

**COMBINED-CYCLE POWER PLANTS**

INIS: 1991-10-03; ETDE: 1976-03-11

(Prior to March 1976 the descriptors COMBINED CYCLES and FOSSIL-FUEL POWER PLANTS or THERMAL POWER PLANTS were used for indexing this concept in ETDE.)

UF combined gas and steam cycle power plants

\*BT1 thermal power plants  
 NT1 mhd generator etf  
 RT coal-fired gas turbines  
 RT combined cycles  
 RT gas turbine power plants  
 RT hot gas cleanup

RT toscodyne process

## COMBINED CYCLES

1991-10-03

BT1 thermodynamic cycles  
RT combined-cycle power plants  
RT electric power  
RT power plants  
RT total energy systems

### combined gas and steam cycle power plants

INIS: 1991-10-03; ETDE: 1976-03-11

Combined gas and steam cycle power plants.

USE combined-cycle power plants

### combined heat-power generation

INIS: 1982-12-03; ETDE: 2002-06-13

USE cogeneration

### combined pinch devices (linear)

USE linear screw pinch devices

## COMBINED SOXNOX PROCESSES

INIS: 1992-07-20; ETDE: 1990-05-15

Processes capable of removing SOX and NOX from flue gas.

UF argonox process

UF desonox process

\*BT1 denitrification

\*BT1 desulfurization

NT1 noxso process

### combined steam-power generation

INIS: 1982-12-03; ETDE: 1977-05-07

USE cogeneration

## COMBINED THERAPY

INIS: 1993-08-04; ETDE: 1986-01-16

The use of both radiotherapy and chemotherapy to achieve a synergistic effect.

\*BT1 therapy

RT antineoplastic drugs

RT chemotherapy

RT neoplasms

RT radiotherapy

RT side effects

## COMBUSTION

UF incineration

\*BT1 oxidation

BT1 thermochemical processes

NT1 cocombustion

NT1 fluidized-bed combustion

NT1 in-situ combustion

NT1 oxyfuel combustion process

NT1 pulse combustion

NT1 reverse combustion

NT1 spontaneous combustion

NT1 staged combustion

RT afterburners

RT burners

RT calorific value

RT combustion instability

RT combustion kinetics

RT combustion products

RT combustion properties

RT combustion waves

RT detonation waves

RT dry ashing

RT exhaust recirculation systems

RT fire prevention

RT fires

RT flames

RT flammability

RT flaring

RT fuel-air ratio

RT fuel injection systems

RT gas burners

RT ignition

RT ignition quality

RT ignition systems

RT incinerators

RT knock control

RT oil burners

RT spark ignition engines

RT stratified charge engines

RT wet ashing

## COMBUSTION CHAMBERS

1997-06-19

Containers in which the actual burning of fuel takes place.

RT combustors

RT engines

RT fuel injection systems

RT furnaces

RT pulse combustion

RT pulse combustors

RT spark ignition engines

## COMBUSTION CONTROL

INIS: 1997-06-19; ETDE: 1979-03-28

Control of factors (temperature, preheating, draft, excess or deficient air, etc.) which affect combustion efficiency.

BT1 control

RT boilers

RT combustors

RT fuel-air ratio

RT oxyfuel combustion process

RT pulse combustion

RT pulse combustors

### combustion engineering gasification process

INIS: 2000-04-12; ETDE: 1977-05-07

USE ce entrained fuel process

### combustion engineering standard reactor

1999-04-21

USE ce standard reactor

### combustion gases

INIS: 1976-07-16; ETDE: 2002-06-13

USE flue gas

## COMBUSTION HEAT

UF heat of combustion

BT1 combustion properties

\*BT1 heat

\*BT1 reaction heat

RT calorific value

## COMBUSTION INSTABILITY

INIS: 2000-04-12; ETDE: 1976-08-24

BT1 instability

RT combustion

## COMBUSTION KINETICS

INIS: 1991-10-03; ETDE: 1976-08-24

\*BT1 chemical reaction kinetics

RT combustion

RT flame propagation

## COMBUSTION PRODUCTS

INIS: 1983-03-15; ETDE: 1975-10-01

NT1 ashes

NT2 fly ash

NT1 soot

RT 3-methylcholanthrene

RT combustion

RT exhaust gases

RT flue gas

RT gaseous wastes

RT pyrolysis products

RT solid wastes

## COMBUSTION PROPERTIES

INIS: 1992-07-10; ETDE: 1975-11-11

UF flame temperature

UF flash point

NT1 calorific value

NT1 combustion heat

NT1 flammability

RT combustion

RT thermodynamic properties

## COMBUSTION WAVES

INIS: 2000-06-27; ETDE: 1976-09-14

Narrow zones of burning propagated through a combustible medium.

RT combustion

RT detonation waves

RT explosions

RT ignition

RT shock waves

## COMBUSTORS

INIS: 1997-06-19; ETDE: 1976-11-01

Combustion chambers together with their associated burners, igniters, and fuel injection devices.

NT1 catalytic combustors

NT1 cyclone combustors

NT1 fluidized-bed combustors

NT1 pulse combustors

RT burners

RT combustion chambers

RT combustion control

RT ignition systems

## COMECON

UF cmea

UF council for mutual economic assistance

BT1 international organizations

## COMETS

NT1 halley comet

RT solar system

### comissao nacional energia nuclear de brazil

INIS: 1993-11-05; ETDE: 2002-06-13

USE brazilian cnen

### comitato nazionale energia nucleare e alternative

INIS: 1993-11-05; ETDE: 2002-06-13

Comitato Nazionale per la Ricerca e lo Sviluppo dell'Energia Nucleare e delle Energie Alternative.

USE italian enea

### comitato nazionale per l'energia nucleare

INIS: 1999-05-06; ETDE: 1976-06-07

USE cnen

### commensalism

INIS: 1984-12-04; ETDE: 1980-01-15

USE symbiosis

### commerce

INIS: 2000-04-12; ETDE: 1977-12-22

USE trade

### commerce (nuclear)

INIS: 1976-12-08; ETDE: 1978-03-03

USE nuclear trade

## COMMERCIAL BUILDINGS

1993-01-28

UF banks

UF stores

BT1 buildings

NT1 hotels

NT1 shopping centers

RT apartment buildings

RT commercial sector

RT office buildings

RT restaurants  
RT skating rinks

### commercial demonstration fast reactor

INIS: 1999-04-19; ETDE: 1979-10-23  
USE cdf reactor

### commercial licenses

INIS: 1994-08-12; ETDE: 1996-02-09  
(Until August 1994 this was a valid descriptor.)  
USE licenses

### commercial nuclear ships

INIS: 1976-11-17; ETDE: 1976-08-24  
USE nuclear merchant ships

### COMMERCIAL SECTOR

INIS: 1986-07-09; ETDE: 1976-12-15  
SF end use sector  
RT commercial buildings  
RT commercialization  
RT economic development  
RT market  
RT marketers  
RT resellers  
RT residential sector  
RT restaurants  
RT retailers  
RT sectoral analysis  
RT service sector  
RT small businesses  
RT trade

### COMMERCIALIZATION

INIS: 1984-10-23; ETDE: 1977-03-04  
*Establishment of a new technology for large-scale use after research, development, and demonstration.*  
SF technology development  
RT biotechnology  
RT commercial sector  
RT demonstration programs  
RT economic development  
RT feasibility studies  
RT gasoline plants  
RT industry  
RT manufacturers  
RT market  
RT technology impacts  
RT technology transfer  
RT technology utilization

### COMMINATION

1999-05-06  
UF pulverization  
NT1 crushing  
NT1 grinding  
RT coal preparation  
RT fracturing  
RT fragmentation  
RT pulverizers

### commissariat a l'energie atomique

INIS: 1993-11-05; ETDE: 2002-06-13  
USE cea

### COMMISSIONING

1996-04-29  
NT1 reactor commissioning  
RT decommissioning

### commissioning (reactor)

USE reactor commissioning

### commodities

INIS: 2000-04-12; ETDE: 1975-07-29  
(Prior to February 1997 this was a valid ETDE descriptor.)  
SEE sales

### common market

1997-01-28  
(Until December 1994 this was a valid descriptor.)  
USE internal market

### COMMUNICATIONS

(From July 1984 till April 1997  
CRYPTOGRAPHY was a valid ETDE descriptor.)  
NT1 data transmission  
NT2 telemetry  
RT advertising  
RT cryptography  
RT data transmission systems  
RT information theory  
RT man-machine systems  
RT radio equipment  
RT redundancy  
RT signals  
RT speech  
RT telephones  
RT television

### COMMUNITIES

1992-03-17  
(From September 1977 till March 1997  
PLANNED COMMUNITIES was a valid ETDE descriptor.)  
SF planned communities  
RT human populations  
RT ices program  
RT residential sector  
RT socio-economic factors

### communities (ecological)

USE ecosystems

### COMMUTATION RELATIONS

RT canonical dimension  
RT current algebra  
RT mathematical operators  
RT quantum mechanics

### COMMUTATORS

\*BT1 quantum operators  
NT1 current commutators  
NT2 sigma terms  
RT current algebra

### COMPACT COMMISSIONS

INIS: 1992-08-20; ETDE: 1984-03-19  
*Joint negotiating and coordinating body for a compact's member states.*  
RT intergovernmental cooperation  
RT low-level radioactive wastes  
RT radioactive waste management  
RT state government

### compact helical system torsatron

1991-02-11  
USE chs torsatron

### COMPACT IGNITION TOKAMAK

INIS: 1987-04-28; ETDE: 1986-11-20  
*A tokamak proposed as a next step after TFTR.*  
\*BT1 tokamak devices  
\*BT1 tokamak type reactors  
RT thermonuclear ignition

### compact toroids

INIS: 1990-12-07; ETDE: 2002-06-13  
USE compact torus

### COMPACT TORUS

INIS: 1983-03-15; ETDE: 1982-10-05  
*Torus with aspect ratio nearly equal to one.*  
UF compact toroids  
\*BT1 closed plasma devices  
BT1 tori  
NT1 field-reversed theta pinch devices

NT1 rotamak devices  
RT ignition spherical torus  
RT plasma  
RT plasma rings  
RT toroidal configuration

### COMPACTIFICATION

INIS: 1985-10-23; ETDE: 1985-11-19  
*Process by which the number of space-time dimensions may be reduced.*  
UF dimensional compactification  
RT dimensions  
RT kaluza-klein theory  
RT space-time  
RT supergravity  
RT symmetry breaking

### COMPACTING

BT1 fabrication  
RT agglomeration  
RT briquetting  
RT caking  
RT cementing  
RT compactors  
RT compacts  
RT pelletizing  
RT powder metallurgy  
RT pressing  
RT rolling

### COMPACTORS

INIS: 1992-08-20; ETDE: 1977-06-21  
BT1 equipment  
RT compacting  
RT compacts

### COMPACTS

RT compacting  
RT compactors  
RT powders

### compagnie generale des matieres nucleaires

INIS: 1977-03-29; ETDE: 2002-06-13  
USE cogema

### COMPARATIVE EVALUATIONS

*Use in coordination with the concepts being compared. In the case of numerical data see also EVALUATED DATA or COMPILED DATA.*

BT1 evaluation  
RT bioassay  
RT correlations  
RT cost benefit analysis  
RT data  
RT efficiency  
RT errors  
RT feasibility studies  
RT functional models  
RT hypothesis  
RT interlaboratory comparisons  
RT mathematical models  
RT measuring methods  
RT radiation effects  
RT resolution  
RT structural models

### COMPARATOR CIRCUITS

*Provide indication of agreement or disagreement between signals.*  
BT1 electronic circuits

### COMPARTMENTS

RT biophysics  
RT extracellular space  
RT radionuclide kinetics  
RT retention  
RT retention functions

**COMPASS-D TOKAMAK**

INIS: 1999-03-24; ETDE: 1999-08-30  
Culham Science Center, Abingdon,  
Oxfordshire, UK.

\*BT1 tokamak devices

**COMPATIBILITY**

Mutual behaviour of 2 or more materials  
joined or mixed together.

RT interchangeability  
RT joining  
RT joints  
RT mixtures

**compatibility (immunological)**

USE immunity

**compensation (workmens)**

USE workmens compensation

**COMPETITION**

INIS: 1986-07-09; ETDE: 1976-07-07  
Contest among individuals; may be used in  
any field.

UF market shares  
RT antitrust laws  
RT behavior  
RT cartels  
RT ecological succession  
RT economics  
RT horizontal integration  
RT marketers  
RT population dynamics  
RT resellers  
RT retailers  
RT sales  
RT trade  
RT vertical divestiture  
RT vertical integration

**competitive protein binding**

USE cpb

**COMPILED DATA**

INIS: 1978-10-20; ETDE: 1979-02-27  
Use only in conjunction with literary indicator  
N for data flagging.

\*BT1 numerical data  
RT data acquisition  
RT data compilation  
RT nuclear data collections

**COMPLEMENT**

A system of 18 proteins found in blood which  
plays a central role in the organism's response  
to microbial infection.

UF properdin  
\*BT1 proteins  
RT antibodies  
RT antigen-antibody reactions  
RT blood plasma  
RT hemolysins  
RT immune system diseases  
RT lymphokines  
RT zymosan

**COMPLEX MANIFOLDS**

BT1 mathematical manifolds

**COMPLEX TERRAIN**

INIS: 1992-06-05; ETDE: 1983-03-07  
Land sites that are made up of a combination  
of mountains, valleys, plateaus, watersheds,  
etc.

RT mountains  
RT topography  
RT valleys  
RT watersheds

**COMPLEXES**

1996-07-23

NT1 actinide complexes

NT2 actinium complexes  
NT2 americium complexes  
NT2 berkelium complexes  
NT2 californium complexes  
NT2 curium complexes  
NT2 einsteinium complexes  
NT2 fermium complexes  
NT2 mendelevium complexes  
NT2 neptunium complexes  
NT3 neptunyl complexes  
NT2 nobelium complexes  
NT2 plutonium complexes  
NT3 plutonyl complexes  
NT2 protactinium complexes  
NT2 thorium complexes  
NT2 uranium complexes  
NT3 uranyl complexes  
NT1 alkali metal complexes  
NT2 cesium complexes  
NT2 francium complexes  
NT2 lithium complexes  
NT2 potassium complexes  
NT2 rubidium complexes  
NT2 sodium complexes  
NT1 alkaline earth metal complexes  
NT2 barium complexes  
NT2 beryllium complexes  
NT2 calcium complexes  
NT2 magnesium complexes  
NT2 radium complexes  
NT2 strontium complexes  
NT1 aluminium complexes  
NT1 amines  
NT1 ammonium complexes  
NT1 antimony complexes  
NT1 argon complexes  
NT1 arsenic complexes  
NT1 astatine complexes  
NT1 bismuth complexes  
NT1 boron complexes  
NT1 bromine complexes  
NT1 cadmium complexes  
NT1 carbon complexes  
NT1 chelates  
NT1 chlorine complexes  
NT1 fluorine complexes  
NT1 gallium complexes  
NT1 germanium complexes  
NT1 helium complexes  
NT1 heteropolyanions  
NT1 hydrogen complexes  
NT1 indium complexes  
NT1 iodine complexes  
NT1 krypton complexes  
NT1 lead complexes  
NT1 mercury complexes  
NT1 neon complexes  
NT1 nitrogen complexes  
NT1 oxygen complexes  
NT1 phosphorus complexes  
NT1 polonium complexes  
NT1 rare earth complexes  
NT2 cerium complexes  
NT2 dysprosium complexes  
NT2 erbium complexes  
NT2 europium complexes  
NT2 gadolinium complexes  
NT2 holmium complexes  
NT2 lanthanum complexes  
NT2 lutetium complexes  
NT2 neodymium complexes  
NT2 praseodymium complexes  
NT2 promethium complexes  
NT2 samarium complexes  
NT2 terbium complexes  
NT2 thulium complexes  
NT2 ytterbium complexes  
NT1 rutherfordium complexes  
NT1 selenium complexes

NT1 silicon complexes  
NT1 sulfur complexes  
NT1 tellurium complexes  
NT1 thallium complexes  
NT1 tin complexes  
NT1 transition element complexes  
NT2 chromium complexes  
NT2 cobalt complexes  
NT2 copper complexes  
NT3 ceruloplasmin  
NT2 gold complexes  
NT2 hafnium complexes  
NT2 iridium complexes  
NT2 iron complexes  
NT3 ferricyanides  
NT3 ferritin  
NT3 ferrocene  
NT3 ferrocyanides  
NT2 manganese complexes  
NT2 molybdenum complexes  
NT2 nickel complexes  
NT2 niobium complexes  
NT2 osmium complexes  
NT2 palladium complexes  
NT2 platinum complexes  
NT2 rhenium complexes  
NT2 rhodium complexes  
NT2 ruthenium complexes  
NT2 scandium complexes  
NT2 silver complexes  
NT2 tantalum complexes  
NT2 technetium complexes  
NT2 titanium complexes  
NT2 tungsten complexes  
NT2 vanadium complexes  
NT2 yttrium complexes  
NT2 zirconium complexes  
NT1 transuranium complexes  
NT2 americium complexes  
NT2 berkelium complexes  
NT2 californium complexes  
NT2 curium complexes  
NT2 einsteinium complexes  
NT2 fermium complexes  
NT2 mendelevium complexes  
NT2 neptunium complexes  
NT3 neptunyl complexes  
NT2 nobelium complexes  
NT2 plutonium complexes  
NT3 plutonyl complexes  
NT1 xenon complexes  
NT1 zinc complexes  
RT adducts  
RT complexometry  
RT coordination number  
RT coordination valences  
RT crown ethers  
RT ligands  
RT ligases  
RT metalloproteins

**complexing agents**

INIS: 2000-04-12; ETDE: 1985-05-31  
USE chelating agents

**COMPLEXOMETRY**

RT complexes

**COMPLIANCE**

INIS: 1993-07-28; ETDE: 1976-11-01

SF escrow accounts  
RT administrative procedures  
RT enforcement  
RT laws  
RT legal aspects  
RT recommendations  
RT regulations  
RT standards  
RT violations



**COMPLIANCE AUDITS**

*INIS: 1994-09-29; ETDE: 1983-05-21*

BT1 audits

**component cooling systems**

*2000-04-12*

USE auxiliary water systems

**COMPOSITE MATERIALS**

UF materials (composite)

BT1 materials

NT1 cermets

NT2 td-nickel

NT2 td-nickel chromium

NT1 concrete-plastic composites

NT1 fiberglass

NT1 prestressed concrete

NT1 reinforced concrete

NT1 superconducting composites

NT1 wood-plastic composites

RT building materials

RT reinforced materials

**COMPOSITE MODELS**

UF rishon model

\*BT1 particle models

NT1 bootstrap model

NT1 cim model

NT1 quark model

NT2 bag model

NT2 color model

NT2 flavor model

NT2 string models

NT3 superstring models

RT preons

RT quarks

**COMPOST**

*INIS: 1992-03-17; ETDE: 1981-07-18*

\*BT1 organic wastes

RT composting

RT sewage

**COMPOSTING**

*INIS: 1992-03-17; ETDE: 1975-09-11*

\*BT1 waste processing

RT compost

RT decomposition

**COMPOUND NUCLEI**

RT hauser-feshbach theory

RT jackson model

RT nuclear models

RT peierls method

RT porter-thomas distribution

**COMPOUND-NUCLEUS REACTIONS**

BT1 nuclear reactions

RT deep inelastic heavy ion reactions

RT evaporation model

RT heavy ion fusion reactions

RT incomplete fusion reactions

RT quasi-fission

**COMPOUND PARABOLIC****CONCENTRATORS**

*INIS: 2000-04-12; ETDE: 1976-11-17*

UF winston collectors

\*BT1 solar concentrators

RT parabolic reflectors

**compounds (inorganic)**

*INIS: 1986-07-10; ETDE: 1980-11-25*

USE inorganic compounds

**compounds (organic)**

USE organic compounds

**COMPREGNACITE**

*2000-04-12*

\*BT1 oxide minerals

\*BT1 uranium minerals

RT uranium oxides

**COMPRESSED AIR**

*1992-01-16*

\*BT1 air

\*BT1 compressed gases

RT compressed air energy storage

RT compressed air energy storage

RT equipment

RT compressed air storage power plants

**COMPRESSED AIR ENERGY****STORAGE**

*INIS: 1993-01-27; ETDE: 1976-09-28*

UF caes

\*BT1 energy storage

RT compressed air

RT compressed air energy storage

RT equipment

RT compressed air storage power plants

RT compressed gases

**COMPRESSED AIR ENERGY****STORAGE EQUIPMENT**

*INIS: 2000-04-12; ETDE: 1977-09-19*

BT1 equipment

RT compressed air

RT compressed air energy storage

RT compressed air storage power plants

RT compressed gases

RT energy storage systems

RT peaking power plants

**COMPRESSED AIR STORAGE****POWER PLANTS**

*INIS: 1993-01-27; ETDE: 1978-09-13*

*Compressed air storage power plants.*

UF caes plant

\*BT1 peaking power plants

RT compressed air

RT compressed air energy storage

RT compressed air energy storage

RT equipment

RT compressed gases

**COMPRESSED GASES**

*INIS: 1985-01-17; ETDE: 1976-03-11*

\*BT1 gases

NT1 compressed air

RT compressed air energy storage

RT compressed air energy storage

RT equipment

RT compressed air storage power plants

RT compressibility

RT compression

RT gas compressors

**compressed work week**

*INIS: 2000-04-12; ETDE: 1984-05-08*

USE alternative work schedules

**COMPRESSIBILITY**

BT1 mechanical properties

RT compressed gases

RT dilatancy

RT grueneisen constant

**COMPRESSIBLE FLOW**

BT1 fluid flow

RT aerodynamics

RT gas flow

RT subsonic flow

RT supersonic flow

RT transonic flow

**COMPRESSION**

NT1 magnetic compression

RT compressed gases

RT compression ratio

RT pressurization

**COMPRESSION RATIO**

*INIS: 2000-04-12; ETDE: 1981-03-17*

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

BT1 dimensionless numbers

RT compression

RT internal combustion engines

**COMPRESSION STRENGTH**

UF strength (compression)

BT1 mechanical properties

RT tensile properties

**COMPRESSOR BLADES**

*INIS: 1999-03-02; ETDE: 1975-10-01*

*(Until March 1999, this concept was indexed by the combination of COMPRESSORS and TURBINE BLADES.)*

UF blades (compressor)

RT compressors

RT turbine blades

**COMPRESSORS**

SF condensers

NT1 gas compressors

NT1 magnetoplasma compressors

NT1 superchargers

NT2 turbochargers

RT blowers

RT compressor blades

RT pressurizers

RT pumps

RT reactor cooling systems

RT turbomachinery

**COMPTON DIODE DETECTORS**

\*BT1 radiation detectors

RT gamma detection

RT self-powered detectors

**COMPTON EFFECT**

*1998-02-18*

UF compton scattering

\*BT1 elastic scattering

\*BT1 electromagnetic interactions

RT compton scattering tomography

RT compton wavelength

RT klein-nishina formula

**compton scattering**

USE compton effect

**COMPTON SCATTERING TOMOGRAPHY**

*INIS: 1980-04-02; ETDE: 1980-05-06*

*Based on the detection by a gamma camera of the 90 degree Compton scattering of a planar gamma beam produced by an external source.*

\*BT1 tomography

RT biomedical radiography

RT compton effect

RT gamma cameras

**COMPTON SPECTROMETERS**

\*BT1 gamma spectrometers

**COMPTON WAVELENGTH**

*1998-02-18*

*Wavelength characteristic of particles; its value is  $h/(mc)$ .*

RT compton effect

**computational fluid dynamics**

*2006-04-25*

USE computerized simulation

USE fluid mechanics

**computed tomography**

*INIS: 1980-04-02; ETDE: 1980-05-07*

USE computerized tomography

**COMPUTER-AIDED DESIGN**

INIS: 1977-07-05; ETDE: 1976-02-19

- BT1 design
- RT computer-aided manufacturing
- RT computer graphics
- RT computer-graphics devices
- RT computers
- RT mathematical models
- RT planning

**COMPUTER-AIDED INSTRUCTION**

INIS: 2000-03-28; ETDE: 1987-12-10

- \*BT1 training

**COMPUTER-AIDED MANUFACTURING**

INIS: 1984-01-18; ETDE: 1983-07-07

- UF cam
- BT1 manufacturing
- RT automation
- RT computer-aided design
- RT fabrication
- RT machine tools
- RT on-line control systems
- RT production

**COMPUTER ARCHITECTURE**

INIS: 1987-02-25; ETDE: 1986-07-25

*Assembly of logical elements to form a computing system.*

- RT array processors
- RT computer output devices
- RT computers
- RT digital systems
- RT distributed structures
- RT electronic equipment
- RT equipment interfaces
- RT neural networks
- RT real time systems

**computer axial tomography scanning**

INIS: 1978-01-16; ETDE: 1978-03-03

- USE cat scanning

**COMPUTER CALCULATIONS***Methods, not results.*

- UF calculations (computer)
- RT boundary element method
- RT computer graphics
- RT computer-graphics devices
- RT computerized simulation
- RT computers
- RT data analysis
- RT mathematical models
- RT mesh generation
- RT numerical analysis
- RT sensitivity analysis

**COMPUTER CODES***Computer codes are indexed by their initial letter and CODES, e.g., A CODES. If the code name begins with a number the code is indexed to NUMBER CODES.*

- UF computer programs
- SF random number generators
- SF text editors
- NT1 a codes
- NT1 b codes
- NT1 c codes
- NT1 d codes
- NT1 e codes
- NT1 executive codes
- NT1 f codes
- NT1 g codes
- NT1 h codes
- NT1 i codes
- NT1 j codes
- NT1 k codes
- NT1 l codes
- NT1 m codes

- NT1 n codes
- NT1 number codes
- NT1 o codes
- NT1 p codes
- NT1 q codes
- NT1 r codes
- NT1 s codes
- NT1 t codes
- NT1 translators
- NT1 u codes
- NT1 v codes
- NT1 w codes
- NT1 x codes
- NT1 y codes
- NT1 z codes
- RT algorithms
- RT computer program documentation
- RT programming
- RT programming languages
- RT speech synthesizers

**COMPUTER GRAPHICS**

1982-12-03

*The technique of combining computer calculations with various display devices, printers, plotters, etc., to render information in graphical or pictorial format.*

- UF chernoff faces
- RT computer-aided design
- RT computer calculations
- RT computer-graphics devices
- RT computer output devices
- RT diagrams
- RT display devices
- RT interactive display devices
- RT plotters

**COMPUTER-GRAPHICS DEVICES**

- BT1 computer output devices
- NT1 display devices
- NT2 interactive display devices
- NT1 plotters
- RT computer-aided design
- RT computer calculations
- RT computer graphics
- RT diagrams

**computer languages**

- USE programming languages

**COMPUTER NETWORKS**

INIS: 1995-10-27; ETDE: 1976-11-01

*A complex consisting of two or more interconnected computing units.*

- UF networks (computer)
- NT1 internet
- NT1 local area networks
- RT computers
- RT data transmission
- RT information systems
- RT on-line systems
- RT real time systems

**COMPUTER OUTPUT DEVICES**

INIS: 1990-12-06; ETDE: 1976-03-22

- NT1 computer-graphics devices
- NT2 display devices
- NT3 interactive display devices
- NT2 plotters
- RT computer architecture
- RT computer graphics
- RT computers

**COMPUTER PROGRAM DOCUMENTATION**

INIS: 1987-09-22; ETDE: 1987-10-23

*Use only in conjunction with literary indicator V for indexing the actual documentation which enables the installation and use of a computer code.*

- RT computer codes

- RT manuals
- RT programming
- RT programming languages

**computer programming**

- USE programming

**computer programs**

- USE computer codes

**computer simulation**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE computerized simulation

**COMPUTERIZED CONTROL SYSTEMS**

INIS: 1991-10-07; ETDE: 1980-03-04

- \*BT1 on-line control systems
- NT1 adaptive systems
- RT computers
- RT control equipment
- RT energy management systems
- RT fault tolerant computers
- RT redundancy

**COMPUTERIZED SIMULATION**

INIS: 1996-04-16; ETDE: 1979-04-11

*Computer calculated representation of a process, device or concept in mathematical form.*

- UF computational fluid dynamics
- UF computer simulation
- BT1 simulation
- RT computer calculations
- RT energy models
- RT molecular dynamics method
- RT numerical analysis

**COMPUTERIZED TOMOGRAPHY**

INIS: 1980-04-02; ETDE: 1980-05-06

*An imaging technique in which transmission measurements of a narrow beam of rays, photons or particles made at several different angles around an object may be used with a computer program to obtain a clear image of one plane of the object.*

- UF computed tomography
- \*BT1 tomography
- NT1 cat scanning
- NT1 emission computed tomography
- NT2 ecat scanning
- NT2 positron computed tomography
- NT2 single photon emission computed tomography
- NT1 photon computed tomography
- NT1 proton computed tomography
- RT biomedical radiography
- RT ct-guided radiotherapy
- RT image processing
- RT image scanners
- RT sequential scanning

**COMPUTERS**

1996-11-13

*(Most UF terms below have been valid ETDE descriptors.)*

- UF amdahl computers
- UF atlas computers
- UF burroughs computers
- UF denelcor computers
- UF ferranti computers
- UF fluidic computers
- UF ge computers
- UF illiac computers
- UF kdf computers
- UF maniac computers
- UF midas computer
- UF on-line computers
- UF optical computers
- UF orion computers
- UF philco computers

UF servers (computers)  
 UF tosbac computers  
 UF ural computers  
 UF varian computers  
 UF xds computers  
 UF xerox data systems computers  
 NT1 analog computers  
 NT1 apple computers  
 NT1 besm computers  
 NT1 cdc computers  
 NT1 cray computers  
 NT1 dec computers  
 NT2 pdp computers  
 NT1 digital computers  
 NT2 array processors  
 NT2 calculators  
 NT2 fault tolerant computers  
 NT2 microcomputers  
 NT3 personal computers  
 NT2 supercomputers  
 NT1 es computers  
 NT1 facom computers  
 NT1 fujitsu computers  
 NT1 hitachi computers  
 NT1 honeywell computers  
 NT1 hp computers  
 NT1 hybrid computers  
 NT1 hypercube computers  
 NT1 ibm computers  
 NT1 icl computers  
 NT1 minsk computers  
 NT1 nec computers  
 NT1 nord computers  
 NT1 process computers  
 NT1 quantum computers  
 NT1 razdan computers  
 NT1 sds computers  
 NT1 siemens computers  
 NT1 univac computers  
 RT analog systems  
 RT artificial intelligence  
 RT camac system  
 RT computer-aided design  
 RT computer architecture  
 RT computer calculations  
 RT computer networks  
 RT computer output devices  
 RT computerized control systems  
 RT data-flow processing  
 RT data processing  
 RT digital systems  
 RT electronic equipment  
 RT equipment interfaces  
 RT fastbus system  
 RT machine translations  
 RT magnetic cores  
 RT memory management  
 RT microprocessors  
 RT nuclear instrument modules  
 RT parallel processing  
 RT programming  
 RT real time systems  
 RT vector processing

**CONCANAVALIN A**

INIS: 1981-02-27; ETDE: 1981-03-13

(Prior to November 1990, this material was indexed to CONCANAVALIN.)

\*BT1 hemagglutinins  
 BT1 lectins  
 RT cell cycle  
 RT cell proliferation  
 RT lymphocytes  
 RT mitosis

**concentrates (ore)**

1982-08-27

USE ore concentrates

**CONCENTRATING COLLECTORS**

INIS: 1992-03-11; ETDE: 1977-06-21

\*BT1 solar collectors  
 NT1 fixed mirror collectors  
 NT1 parabolic collectors  
 NT2 parabolic dish collectors  
 NT2 parabolic trough collectors  
 NT1 slat type collectors  
 NT1 tower focus collectors  
 NT1 v trough collectors  
 RT solar concentrators  
 RT solar receivers

**concentration**

INIS: 2000-04-12; ETDE: 1978-12-20

SEE abundance  
 SEE concentration ratio  
 SEE ecological concentration

**concentration (analytical)**

2000-03-27

SEE abundance

**concentration dependence**

2000-03-27

SEE abundance

**concentration processes (ecological)**

INIS: 1993-11-05; ETDE: 2002-06-13

USE ecological concentration

**CONCENTRATION RATIO**

INIS: 1993-07-12; ETDE: 1978-04-06

See also ISOTOPE RATIO.

(Until July 1993, this concept was indexed in INIS by QUANTITY RATIO.)

UF quantity ratio

SF concentration

BT1 dimensionless numbers

RT abundance

RT concentrator solar cells

RT ecological concentration

RT quantitative chemical analysis

RT radioecological concentration

RT radionuclide kinetics

RT solar concentrators

RT thermodynamic activity

**concentrations (radionuclides)**

USE radioactivity

**CONCENTRATOR SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1979-07-18

(Prior to July 1979 SOLAR CELLS or specific solar cells descriptors and solar concentrators were used to index this concept in ETDE.)

\*BT1 solar cells

RT concentration ratio

RT solar concentrators

RT solar receivers

**CONCENTRATORS**

INIS: 1994-06-27; ETDE: 1976-02-19

NT1 centrifuges

NT2 gas centrifuges

NT2 plasma centrifuges

NT2 ultracentrifuges

NT1 cyclone separators

NT1 dewatering equipment

NT1 jigs

NT1 magnetic separators

RT screens

RT separation processes

RT sorting

**CONCRETE BLOCKS**

INIS: 2000-04-12; ETDE: 1979-07-18

\*BT1 building materials

RT concretes

**CONCRETE-PLASTIC COMPOSITES**

1975-11-27

\*BT1 composite materials

RT concretes

RT organic polymers

RT plastics

**CONCRETE STRINGERS**

RT reinforced concrete

**CONCRETES**

\*BT1 building materials

NT1 prestressed concrete

NT1 reinforced concrete

RT cements

RT concrete blocks

RT concrete-plastic composites

RT mortars

RT pavements

RT sand

RT shielding materials

**CONCRETIONS**

2000-01-20

Bodies within host rocks representing local concentrations of cementing materials.

BT1 geologic deposits

RT minerals

RT rocks

**CONDENSATES**

NT1 gas condensates

RT vapor condensation

**condensation (organic compounds)**

INIS: 2000-04-12; ETDE: 1983-04-28

USE dehydrocyclization

**condensation (vapor)**

USE vapor condensation

**CONDENSATION CHAMBERS**

RT control equipment

RT pressure suppression

RT reactor components

RT reactor cooling systems

RT reactor safety

RT vapor condensation

**CONDENSATION NUCLEI**

INIS: 1981-09-17; ETDE: 1978-04-06

Small particles upon which gases can condense, such as dust in the earth's atmosphere.

RT aerosols

RT aitken nuclei

RT meteorology

RT particles

RT vapor condensation

**CONDENSED AROMATICS**

1996-07-08

UF fluoranthene

UF polynuclear hydrocarbons

UF violanthrone

\*BT1 aromatics

NT1 3-methylcholanthrene

NT1 acenaphthene

NT1 anthracene

NT1 benzanthracene

NT1 benzopyrene

NT1 calixarenes

NT1 cholanthrene

NT1 chrysene

NT1 dimethylbenzanthracene

NT1 fluorene

NT1 indene

NT1 indocyanine green

NT1 methylnaphthalenes

NT1 naphthalene

NT1 pentacene

NT1 perylene  
 NT1 phenanthrene  
 NT1 pyrene  
 NT1 tetracene  
 NT1 triphenylene

**condensed cycloalkanes**

INIS: 2000-04-12; ETDE: 1976-12-16

(Prior to February 1995, this was a valid ETDE descriptor.)

USE cycloalkanes

**CONDENSER COOLING SYSTEMS**

1980-07-24

For heat dissipation in either nuclear or fossil fueled power plants. May be of open circuit or closed cycle design.

\*BT1 auxiliary water systems  
 \*BT1 cooling systems  
 RT reactor cooling systems

**CONDENSER IONIZATION CHAMBERS**

UF pocket chambers

\*BT1 dosimeters  
 \*BT1 ionization chambers  
 RT electrometers

**condensers**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE compressors  
 SEE heat exchangers  
 SEE vapor condensers

**condensers (electric)**

USE capacitors

**condensers (steam)**

USE steam condensers

**condensers (using ice)**

INIS: 1977-01-25; ETDE: 2002-06-13

Steam condensers using ice as the heat sink.

USE ice condensers

**condensers (vapor)**

USE vapor condensers

**CONDENSING BOILERS**

2007-07-27

BT1 boilers  
 RT flue gas  
 RT vapor condensers

**condiments**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

USE food

**condition ratio**

INIS: 2000-04-12; ETDE: 1983-01-21

USE formation damage

**CONDITIONED REFLEXES**

BT1 reflexes  
 RT avoidance  
 RT cerebral cortex  
 RT learning

**conduction (thermal)**

INIS: 1978-09-28; ETDE: 2002-06-13

USE thermal conduction

**conductivity (electric)**

USE electric conductivity

**conductivity (thermal)**

USE thermal conductivity

**CONDUCTOR DEVICES**

\*BT1 electrical equipment  
 NT1 connectors  
 NT1 electric cables  
 NT2 coaxial cables  
 NT2 cryogenic cables  
 NT2 gas-insulated cables  
 NT2 oil-filled cables  
 NT2 superconducting cables  
 NT1 electric fuses  
 RT electric conductors  
 RT resistors

**conductors (electric)**

USE electric conductors

**CONES**

1983-09-05

RT shape

**conferences**

USE meetings

**CONFIGURATION**

For the relative arrangement of component parts; for electron configuration in atoms and molecules use ELECTRONIC STRUCTURE; for nuclear configuration use NUCLEAR STRUCTURE; for molecular configuration use MOLECULAR STRUCTURE.

UF fuel rod consolidation

NT1 annular space  
 NT2 toroidal configuration  
 NT1 circular configuration  
 NT1 conical configuration  
 NT1 cylindrical configuration  
 NT1 elliptical configuration  
 NT1 helical configuration  
 NT1 hexagonal configuration  
 NT1 hyperbolic configuration  
 NT1 prismatic configuration  
 NT1 rectangular configuration  
 NT2 square configuration  
 NT1 spherical configuration  
 NT1 spiral configuration  
 NT1 triangular configuration  
 RT anisotropy  
 RT asymmetry  
 RT crystal structure  
 RT geometry  
 RT isotropy  
 RT mass distribution  
 RT morphology  
 RT network analysis  
 RT orientation  
 RT reactor lattices  
 RT rings  
 RT shape  
 RT symmetry

**CONFIGURATION CONTROL**

1999-05-12

Reactor control by varying the configuration of the fuel, reflector, coolant or moderator.

BT1 control  
 NT1 spectral shift control  
 RT moderators  
 RT neutron reflectors  
 RT reactor control systems  
 RT reactor lattices  
 RT reflector savings

**configuration dependence**

INIS: 2000-04-12; ETDE: 1979-08-07

USE space dependence

**CONFIGURATION INTERACTION**

Not for interactions of elementary particles; for which see INTERACTIONS.

RT atomic models  
 RT conformational changes

RT electronic structure  
 RT molecular structure

**CONFIGURATION MIXING**

BT1 interactions  
 RT kobayashi-maskawa matrix

**CONFINEMENT**

NT1 plasma confinement  
 NT2 inertial confinement  
 NT2 magnetic confinement  
 NT3 h-mode plasma confinement  
 NT3 l-mode plasma confinement  
 RT electron rings  
 RT energy balance  
 RT ion rings  
 RT magnetic field configurations  
 RT magnetic insulation  
 RT mass balance

**CONFINEMENT TIME**

RT h-mode plasma confinement  
 RT lawson criterion  
 RT plasma confinement  
 RT plasma disruption  
 RT thermonuclear devices  
 RT thermonuclear reactors  
 RT time dependence

**CONFLICTS OF INTEREST**

INIS: 1993-07-28; ETDE: 1980-08-25

RT antitrust laws  
 RT contracts  
 RT legal aspects

**CONFORMAL GROUPS**

\*BT1 lie groups  
 RT conformal invariance  
 RT conformal mapping

**CONFORMAL INVARIANCE**

BT1 invariance principles  
 RT conformal groups  
 RT scale dimension  
 RT scale invariance

**CONFORMAL MAPPING**

\*BT1 topological mapping  
 RT conformal groups  
 RT mathematics  
 RT smooth manifolds

**CONFORMATIONAL CHANGES**

INIS: 1993-09-01; ETDE: 1980-02-11

RT configuration interaction  
 RT electronic structure  
 RT molecular structure

**CONGENITAL DISEASES**

UF xeroderma pigmentosum  
 BT1 diseases  
 NT1 downs syndrome  
 RT congenital malformations  
 RT hereditary diseases

**CONGENITAL MALFORMATIONS**

\*BT1 malformations  
 NT1 downs syndrome  
 RT congenital diseases  
 RT delayed radiation effects  
 RT fetuses  
 RT genetic effects  
 RT mutations  
 RT pediatrics  
 RT teratogenesis  
 RT teratogens

**CONGLOMERATES**

Limited to geological formations.

\*BT1 sedimentary rocks  
 NT1 calcretes  
 RT graywacke

**congo democratic republic**

(Prior to September 1997 ZAIRE REPUBLIC was used for this concept in ETDE.)

USE democratic republic of the congo

**congo kinshasa triga reactor**

USE trico reactor

**CONGO PEOPLES REPUBLIC**

BT1 africa

BT1 developing countries

NT1 brazzaville

**congo red**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE amines

USE azo dyes

USE indicators

USE sulfonic acids

**congressional hearings**

INIS: 2000-04-12; ETDE: 1975-11-11

USE hearings

**CONGRESSIONAL INQUIRIES**

INIS: 2000-04-12; ETDE: 1983-03-23

Requests by members of congress for information; not to be used for CONGRESSIONAL HEARINGS.

RT information

**CONICAL CONFIGURATION**

ETDE: 1975-09-11

BT1 configuration

**CONIDIA**

BT1 spores

RT fungi

**CONIFERS**

1997-06-17

\*BT1 pinophyta

NT1 cedars

NT1 firs

NT1 hemlocks

NT1 larches

NT1 pines

NT1 spruces

RT shrubs

RT trees

**coning**

INIS: 2000-04-12; ETDE: 1976-03-11

USE channeling

**conjugate points**

USE geomagnetic conjugacy

**CONJUNCTIVA**

\*BT1 eyes

\*BT1 mucous membranes

RT conjunctivitis

RT epithelium

**CONJUNCTIVITIS**

\*BT1 sense organs diseases

RT conjunctiva

**CONNAH QUAY-B REACTOR**

\*BT1 agr type reactors

\*BT1 carbon dioxide cooled reactors

\*BT1 power reactors

**connate water**

2000-04-12

Water entrapped in the interstices of a sedimentary or extrusive igneous rock at the time of its deposition.

(Prior to February 1997 this was a valid ETDE descriptor.)

USE interstitial water

**CONNECTICUT**

1997-06-17

\*BT1 usa

RT connecticut river

RT connecticut river basin

RT long island sound

RT us east coast

**CONNECTICUT RIVER**

1997-06-17

\*BT1 rivers

RT connecticut

RT connecticut river basin

RT massachusetts

RT new hampshire

RT vermont

**CONNECTICUT RIVER BASIN**

INIS: 2000-04-12; ETDE: 1977-09-19

BT1 watersheds

RT connecticut

RT connecticut river

RT massachusetts

RT new hampshire

RT vermont

**CONNECTICUT YANKEE REACTOR**

Connecticut Yankee Atomic Co., Haddam Neck, Connecticut, USA. Shut down in 1996. Decommissioned.

UF haddam neck reactor

UF yankee connecticut reactor

\*BT1 pwr type reactors

**connecting**

USE fastening

**connections**

USE joints

**CONNECTIVE TISSUE**

\*BT1 animal tissues

NT1 adipose tissue

NT1 bone tissues

NT2 antlers

NT2 trabecular bone

NT1 cartilage

NT1 fascia

NT1 ligaments

NT1 tendons

RT blood

RT collagen

RT connective tissue cells

RT fibrosis

RT reticuloendothelial system

**CONNECTIVE TISSUE CELLS**

UF osteoblasts

\*BT1 somatic cells

NT1 bone cells

NT1 bone marrow cells

NT1 fat cells

NT1 fibroblasts

NT1 lymphocytes

NT1 macrophages

NT1 mast cells

NT1 plasma cells

RT connective tissue

**CONNECTORS**

SF junctions

\*BT1 conductor devices

RT potheads

RT switches

**conoco gasification process**

INIS: 2000-04-12; ETDE: 1981-06-13

The process is based on British gas/Lurgi slagging gasification technology and shift/methanation technology developed by Conoco inc.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**conoco process**

INIS: 2000-04-12; ETDE: 1976-11-01

Desulfurization of low btu gas from coal gasification by reacting hydrogen sulfide with calcium carbonate magnesiumoxide at 1775 degrees F and 15 atm to form calcium sulfide magnesium oxide.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**consent orders**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to March 1997 this was a valid ETDE descriptor.)

USE orders

**conservation (charge)**

INIS: 1982-12-03; ETDE: 2002-06-13

USE charge conservation

**conservation (energy)**

INIS: 1982-12-03; ETDE: 1979-11-23

USE energy conservation

**conservation (resource)**

INIS: 2000-04-12; ETDE: 1975-09-11

USE resource conservation

**conservation (resources)**

INIS: 1982-12-03; ETDE: 2002-06-13

USE resource conservation

**CONSERVATION LAWS**

RT basic interactions

RT continuity equations

RT invariance principles

RT particle kinematics

**CONSOL FGD PROCESS**

INIS: 2000-04-12; ETDE: 1977-08-24

Concentrated aqueous solution of potassium thiosulfate is circulated through a pump-around loop containing a packed bed scrubber for sulfur dioxide removal and an external reaction drum.

\*BT1 desulfurization

RT scrubbers

**CONSOL STIRRED BED PROCESS**

INIS: 2000-04-12; ETDE: 1975-11-28

Fluidized-bed carbonization of ground coal in vessel equipped with stirrer blades.

RT carbonization

RT chars

**consol synthetic fuel process**

2000-04-12

USE coal liquefaction

**CONSOL SYNTHETIC GAS PROCESS**

2000-04-12

Coarse caking coal and non-caking pellets are gasified conventionally in a fixed bed to produce a low btu gas with air or a synthesis gas with oxygen.

\*BT1 coal gasification

**CONSOLES**

RT control rooms

RT display devices

RT electronic equipment

### **consolidated edison thorium reactor**

1993-11-05

USE indian point-1 reactor

### **CONSOLIDATED FUEL REPROCESSING PROGRAM**

INIS: 1994-08-22; ETDE: 1980-10-27

*A comprehensive program to develop and demonstrate breeder reprocessing and recycle.*

(Until August 1994 this descriptor was spelled CFRP PROGRAM.)

UF *cfp program*

\*BT1 coordinated research programs

RT hef

RT reprocessing

### **consolidation (sand)**

INIS: 2000-04-12; ETDE: 1981-05-18

USE sand consolidation

### **CONSORT-2 REACTOR**

*Imperial College of Science and Technology for Univ. of London, Ascot, Berkshire, United Kingdom.*

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

### **CONSPIRACY RELATIONS**

RT regge poles

RT scattering

### **CONSTANTAN**

1993-10-03

\*BT1 alloy-cu52ni47

### **CONSTIPATION**

BT1 symptoms

RT diarrhea

RT digestive system diseases

RT intestines

### **constituent interchange model**

INIS: 1978-08-14; ETDE: 1978-04-27

USE cim model

### **constraints**

INIS: 2000-04-12; ETDE: 1981-07-18

*Used to denote all barriers to development.*

(Until March 1996 this was a valid ETDE descriptor.)

SEE limiting values

### **CONSTRUCTION**

2000-04-03

*For manufacturing see FABRICATION.*

UF *building (constructing)*

NT1 cwip

RT afudc

RT building codes

RT buildings

RT construction industry

RT contracts

RT excavation

RT foundations

RT installation

RT mechanical structures

RT mine drivage

RT modifications

RT modular structures

RT nuclear industry

RT planning

RT retrofitting

RT schedules

RT structural beams

RT vernacular architecture

### **CONSTRUCTION INDUSTRY**

INIS: 1992-04-06; ETDE: 1977-09-19

BT1 industry

RT architects

RT builders

RT buildings

RT construction

RT engineers

RT modular structures

### **CONSTRUCTION PERMITS**

INIS: 1976-12-08; ETDE: 1978-03-08

BT1 licenses

### **construction work in progress**

INIS: 2000-04-03; ETDE: 1978-11-14

USE cwip

### **CONSTRUCTIVE FIELD THEORY**

INIS: 1977-11-21; ETDE: 1978-03-08

UF *euclidean quantum field theory*

\*BT1 quantum field theory

NT1 lattice field theory

### **CONSULTANTS**

INIS: 1999-08-19; ETDE: 1980-07-09

BT1 personnel

RT contracts

### **consultation mechanism on sea dumping**

INIS: 1993-11-05; ETDE: 2002-06-13

*Multilateral Consultation and surveillance Mechanism for Sea Dumping of Radioactive Waste.*

USE oecd mcmsdrw

### **consumer guides**

INIS: 2000-04-12; ETDE: 1977-06-21

*Use DIRECTORIES or RECOMMENDATIONS and the descriptor below.*

(Prior to February 1997 this was a valid ETDE descriptor.)

USE consumer products

### **consumer price index**

INIS: 2000-04-12; ETDE: 1979-09-27

(Prior to March 1996 this was a valid ETDE descriptor.)

USE retail prices

### **consumer prices**

INIS: 2000-04-12; ETDE: 1996-03-28

USE retail prices

### **CONSUMER PRODUCTS**

INIS: 1980-09-12; ETDE: 1977-10-20

*Articles of commerce available to the general public. When possible, use descriptors for the specific products, e.g., food, clothing, instruments and pharmaceuticals.*

UF *consumer guides*

UF *cosmetics*

RT advertising

RT clothing

RT consumer protection

RT drugs

RT food

### **CONSUMER PROTECTION**

INIS: 1992-02-03; ETDE: 1977-06-21

RT consumer products

RT interest groups

RT legal aspects

RT product labeling

RT public relations

RT regulations

RT us natural gas policy act

RT warranties

### **consumers michigan palisades reactor**

USE palisades-1 reactor

### **consumers power company midland-1**

2000-04-12

USE midland-1 reactor

### **consumers power company midland-1 reactor**

INIS: 1993-11-05; ETDE: 2002-06-13

USE midland-1 reactor

### **consumers power company midland-2**

2000-04-12

USE midland-2 reactor

### **consumers power company midland-2 reactor**

INIS: 1993-11-05; ETDE: 2002-06-13

USE midland-2 reactor

### **CONSUMPTION RATES**

1993-06-03

*For actions, ratios, percentages; not for consumption as a function of time.*

RT energy consumption

RT fuel consumption

### **CONTACT HANDLING**

INIS: 1985-12-10; ETDE: 1984-10-24

*Handling by touch, perhaps made allowable because of low surface radiation dose rate.*

RT materials handling

RT materials handling equipment

RT remote handling

### **contact radiotherapy**

USE radiotherapy

### **contactors**

USE switches

### **contacts (electric)**

USE electric contacts

### **CONTAINED EXPLOSIONS**

1996-07-16

UF *monique event*

UF *pokhran event*

UF *wagon wheel event*

\*BT1 underground explosions

RT anvil project

RT bedrock project

RT chemical explosions

RT crosstie operation

RT grommet operation

RT latchkey operation

RT mandrel operation

RT mining

RT nougat operation

RT nuclear explosions

RT praetorian project

RT sun beam operation

RT surface mining

RT toggle operation

RT whetstone operation

### **CONTAINERS**

UF *canisters*

UF *vessels*

NT1 calandrias

NT1 capsules

NT1 casks

NT2 spent fuel casks

NT1 dewars

NT1 gas cylinders

NT1 hoppers

**NT1** pressure vessels  
**NT1** reactor vessels  
**NT1** tanks  
**NT2** floating roof tanks  
**NT2** hydraulic accumulators  
*RT* chemical reactors  
*RT* containment  
*RT* coverings  
*RT* liners  
*RT* packaging  
*RT* radiation sources  
*RT* reactor components  
*RT* shielding  
*RT* transport

## CONTAINMENT

*Means and methods for preventing the escape of radioactive materials to the biosphere, particularly in the case of reactor accidents and including entombment.*

*UF* entombment (radioactive materials)  
**NT1** containment buildings  
**NT1** containment shells  
**NT1** containment systems  
**NT2** containment spray systems  
*RT* containers  
*RT* containment mockup facility  
*RT* containment research installation  
*RT* fission product release  
*RT* fission products  
*RT* gloveboxes  
*RT* leaks  
*RT* radiation protection  
*RT* reactor components  
*RT* reactor safety  
*RT* sealed sources  
*RT* source terms

## CONTAINMENT BUILDINGS

*UF* buildings (containment)  
**BT1** buildings  
**BT1** containment

## CONTAINMENT MOCKUP FACILITY

**BT1** reactor safety experiments  
*RT* containment

## CONTAINMENT RESEARCH INSTALLATION

**BT1** reactor safety experiments  
*RT* containment

## CONTAINMENT SHELLS

*UF* shells (containment)  
**BT1** containment

## CONTAINMENT SPRAY SYSTEMS

*UF* spray systems (containment)  
**\*BT1** containment systems  
*RT* pressure suppression  
*RT* reactor safety

## CONTAINMENT SYSTEMS

**BT1** containment  
**BT1** engineered safety systems  
**NT1** containment spray systems  
*RT* containment systems experiment  
*RT* fission products  
*RT* ice condensers

## CONTAINMENT SYSTEMS EXPERIMENT

**BT1** reactor safety experiments  
*RT* containment systems

## CONTAMINATION

*For radioactive contamination only; see also POLLUTION.*

**NT1** indoor air contamination  
**NT1** surface contamination  
**NT1** transfrontier contamination

*RT* body burden  
*RT* clean rooms  
*RT* contamination regulations  
*RT* environment  
*RT* fallout  
*RT* fission product release  
*RT* fouling  
*RT* global aspects  
*RT* impurities  
*RT* lcpmpdpw  
*RT* liquid contamination monitors  
*RT* maximum acceptable contamination  
*RT* medical surveillance  
*RT* oecd mcmsdrw  
*RT* pollutants  
*RT* radioactive wastes  
*RT* radioactivity  
*RT* radioactivity transport  
*RT* radioecological concentration  
*RT* remedial action

## contamination (internal)

USE radionuclide kinetics

## contamination (surface)

2000-04-12

USE surface contamination

## CONTAMINATION REGULATIONS

*Regulations for radioactive contamination only; see also POLLUTION REGULATIONS.*

**\*BT1** regulations  
**NT1** maximum acceptable contamination  
*RT* contamination  
*RT* pollution regulations  
*RT* transfrontier contamination

## content analysis

USE chemical analysis

## CONTIGS

*INIS: 2000-04-12; ETDE: 1994-02-24*  
*Chromosomal fragments produced by cleavage of a chromosome into overlapping sections of DNA of 0.5 to 5 million base pairs.*

**\*BT1** dna  
*RT* chromosomes  
*RT* endonucleases  
*RT* genetic mapping

## CONTINENTAL CRUST

*INIS: 1981-09-18; ETDE: 1977-09-19*

**BT1** earth crust  
*RT* earth planet  
*RT* oceanic crust

## CONTINENTAL MARGIN

*INIS: 1991-10-07; ETDE: 1978-12-11*  
*The ocean floor that is between the shoreline and the abyssal ocean floor including the continental borderland, the continental shelf, the continental slope, and the continental rise.*

**NT1** continental shelf  
**NT1** continental slope  
*RT* coastal waters

## CONTINENTAL SHELF

1997-06-19

*UF* outer continental shelf  
**BT1** continental margin  
*RT* coastal waters  
*RT* coastal zone management acts  
*RT* continental slope  
*RT* mid-atlantic bight  
*RT* new york bight  
*RT* santa barbara channel  
*RT* south atlantic bight  
*RT* submarine canyons  
*RT* territorial waters

## CONTINENTAL SLOPE

*INIS: 1991-10-07; ETDE: 1978-06-14*  
*That part of the continental margin that is between the continental shelf and the continental rise.*

**BT1** continental margin  
*RT* coastal waters  
*RT* continental shelf  
*RT* submarine canyons

## CONTINUED FRACTIONS

*Finite or infinite.*

*RT* analytic functions  
*RT* series expansion

## CONTINUITY EQUATIONS

**\*BT1** partial differential equations  
*RT* conservation laws  
*RT* electromagnetism  
*RT* fluid flow  
*RT* heat transfer

## CONTINUOUS CULTURE

*INIS: 1997-06-19; ETDE: 1978-06-14*

*RT* aerobic digestion  
*RT* anaerobic digestion  
*RT* batch culture  
*RT* culture media  
*RT* fermentation  
*RT* semibatch culture  
*RT* single cell protein

## CONTINUOUS CURRENT TOKAMAK

*INIS: 1991-08-12; ETDE: 1991-09-13*

**\*BT1** tokamak devices

## continuous intake

USE chronic intake

## continuous irradiation

USE chronic irradiation

## CONTINUOUS MINERS

*INIS: 2000-04-12; ETDE: 1978-05-03*

**\*BT1** cutter loaders

## continuous vacuum casting

USE vacuum casting

## continuum shell model

*INIS: 1976-01-28; ETDE: 2002-06-13*

USE shell models

## contract administration

*INIS: 2000-04-12; ETDE: 1983-03-24*

USE contract management

## CONTRACT MANAGEMENT

*INIS: 1993-03-23; ETDE: 1980-09-05*  
*(Prior to March 1983 this concept in ETDE was indexed to PROGRAM MANAGEMENT.)*

*UF* contract administration  
**\*BT1** program management  
*RT* contractors  
*RT* contracts  
*RT* schedules

## contracting of energy services

2004-02-11

*Delivery of energy services (energy supplied in the form of heat and/or power) to a user by a third party under contract.*

USE contractors  
 USE energy supplies

## CONTRACTION

*RT* expansion  
*RT* expansion joints  
*RT* shrinkage  
*RT* thermal expansion

**CONTRACTOR PERSONNEL**

INIS: 1993-07-28; ETDE: 1983-03-23

Persons employed by a contractor.

- BT1 personnel
- RT contractors
- RT contracts

**CONTRACTORS**

INIS: 1986-07-09; ETDE: 1983-03-23

Persons or companies which supply services under contract.

- UF contracting of energy services
- UF subcontractors
- RT contract management
- RT contractor personnel
- RT contracts

**CONTRACTS**

- UF fixed-price contracts
- NT1 leases
- RT agreements
- RT conflicts of interest
- RT construction
- RT consultants
- RT contract management
- RT contractor personnel
- RT contractors
- RT delivery
- RT leasing
- RT proposals
- RT third-party use
- RT time delay

**contractual liability**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

- USE liabilities

**CONTRAST MEDIA**

1996-10-23

- UF diodrast
- UF iodopyracel
- NT1 hippuran
- NT1 iohexol
- NT1 iopamidol
- NT1 lipiodol
- NT1 metrizamide
- NT1 thorotrast
- RT biomedical radiography
- RT nuclear magnetic resonance

**CONTROL**

Regulating a process, property or component in a qualitative or quantitative sense. Not to be confused with MONITORING which refers only to detection or measurement.

- UF attitude control
- NT1 atomic energy control
- NT2 international control
- NT2 national control
- NT1 closed-loop control
- NT1 combustion control
- NT1 configuration control
- NT2 spectral shift control
- NT1 erosion control
- NT1 flood control
- NT1 fluid poison control
- NT1 frequency control
- NT1 humidity control
- NT1 knock control
- NT1 mode control
- NT1 open-loop control
- NT1 optimal control
- NT1 pest control
- NT2 genetic control
- NT2 pest eradication
- NT1 pollution control
- NT2 air pollution control
- NT3 carbon sequestration

- NT2 land pollution control
- NT2 noise pollution control
- NT2 oil pollution containment
- NT2 water pollution control
- NT1 pressure control
- NT1 process control
- NT1 quality control
- NT1 remote control
- NT1 scale control
- NT1 temperature control
- NT1 traffic control
- RT bifurcation
- RT control systems
- RT control theory
- RT cybernetics
- RT decision tree analysis
- RT detection
- RT fault tree analysis
- RT feedback
- RT mitigation
- RT monitoring
- RT optimization

**control (inspection)**

- USE inspection

**control (radioactivity)**

- USE radiation monitoring

**CONTROL ELEMENTS**

- UF control rods
- UF reactor control rods
- UF rods (control)
- BT1 reactor components
- NT1 regulating rods
- NT1 scram rods
- NT1 shim rods
- RT burnable poisons
- RT control rod drives
- RT control rod worths
- RT guide tubes
- RT neutron absorbers
- RT reactor control systems
- RT reactor cores
- RT reactor kinetics
- RT rod drop accidents
- RT rod drop method
- RT rod ejection accidents

**CONTROL EQUIPMENT**

- BT1 equipment
- NT1 electric controllers
- NT1 flow regulators
- NT2 baffles
- NT2 valves
- NT3 relief valves
- NT3 water faucets
- NT1 fluidic control devices
- NT1 humidistats
- NT1 hydraulic control devices
- NT1 pneumatic controllers
- NT1 pressure regulators
- NT1 servomechanisms
- NT1 speed regulators
- NT1 thermostats
- NT2 cryostats
- RT actuators
- RT computerized control systems
- RT condensation chambers
- RT control rooms
- RT control systems
- RT excitation systems
- RT knock control
- RT reactor components
- RT robots
- RT solar tracking

**CONTROL ROD DRIVES**

- BT1 reactor components
- RT control elements

- RT reactor control systems

**control rod effectiveness**

- USE control rod worths

**CONTROL ROD WORTHS**

- UF control rod effectiveness
- RT control elements
- RT nordheim-scalettar method
- RT reactor kinetics

**control rods**

- USE control elements

**CONTROL ROOMS**

INIS: 1979-12-20; ETDE: 1977-08-09

In the sense of the fully instrumented complex of control equipment, displays and instruments and their layout in a room at a particular facility and not in the limited sense of a part of a building.

- RT consoles
- RT control equipment
- RT display devices
- RT man-machine systems
- RT reactor control systems
- RT reactor instrumentation
- RT reactor simulators

**CONTROL SYSTEMS**

For automated processes including feedback.

- NT1 electronic guidance
- NT1 energy management systems
- NT1 entry control systems
- NT1 on-line control systems
- NT2 computerized control systems
- NT3 adaptive systems
- NT1 reactor control systems
- NT1 var control systems
- RT control
- RT control equipment
- RT heliostats
- RT identification systems
- RT interlocks
- RT man-machine systems
- RT optimization
- RT power conditioning circuits
- RT real time systems
- RT robots
- RT systems analysis

**CONTROL THEORY**

INIS: 1976-09-06; ETDE: 1976-11-01

- RT control
- RT differential equations
- RT feedback
- RT optimization

**control theory (fission reactor)**

INIS: 1993-11-05; ETDE: 2002-06-13

- USE reactor kinetics

**control theory (reactor)**

2000-04-12

- USE reactor kinetics

**CONTROLLED AREAS**

INIS: 1976-12-08; ETDE: 1978-03-08

Areas designated by radiation protection regulations for special monitoring.

- RT nuclear facilities
- RT radiation monitoring
- RT radiation protection

**CONTROLLED ATMOSPHERES**

1999-03-17

- BT1 atmospheres
- NT1 inert atmosphere
- NT2 cover gas
- RT clean rooms
- RT environment
- RT exposure chambers



*RT* heat treatments

### controlled terminology

USE standardized terminology

### conv assist nuc acc/rad emerg

*INIS: 1989-02-24; ETDE: 2002-06-13*

USE canare

### CONVECTION

*Heat transfer by convection.*

\*BT1 heat transfer

BT1 mass transfer

NT1 forced convection

NT1 natural convection

NT1 thermosyphon effect

*RT* advection

*RT* richardson number

### CONVECTIVE INSTABILITIES

*A class of plasma instabilities growing exponentially with time in velocity space.*

\*BT1 plasma instability

*RT* absolute instabilities

*RT* briggs criterion

### convective loop houses

*INIS: 1992-08-25; ETDE: 1981-06-13*

USE double envelope buildings

### CONVECTORS

2006-03-31

BT1 heat exchangers

\*BT1 space heaters

### convention on early notification of nuclear accident

*INIS: 1993-11-05; ETDE: 1989-03-20*

USE cenna

### convention on nuclear safety

*INIS: 2002-01-22; ETDE: 1999-12-15*

USE international convention on nuclear safety

### convention on physical protection of nuclear material

1993-11-05

USE cppnm

### convention on supplementary compensation for nuclear damage

2000-10-18

USE cscnd

### convention on the physical protection of nuclear materials

*INIS: 2000-04-12; ETDE: 1990-11-26*

USE cppnm

### CONVENTIONAL WARFARE

*INIS: 2000-04-12; ETDE: 1986-02-03*

BT1 warfare

### conventions

USE agreements

### CONVERGENCE

1982-12-07

*Approach to a limit, e.g.*

(by an infinite sequence; prior to December 1982 this concept was indexed by SERIES EXPANSION.)

*RT* mathematics

*RT* series expansion

*RT* superconvergence relations

### CONVERSION

NT1 energy conversion

NT2 direct energy conversion

NT3 photovoltaic conversion

NT3 thermionic conversion

NT3 thermoelectric conversion

NT3 thermomagnetic conversion

NT3 thermophotovoltaic conversion

NT2 electrochemical energy conversion

NT2 geothermal energy conversion

NT2 heat production

NT2 solar energy conversion

NT3 ocean thermal energy conversion

NT3 solar thermal conversion

NT1 external conversion

NT1 internal conversion

NT2 k conversion

NT2 l conversion

NT2 m conversion

### conversion (nuclear fuel)

USE nuclear fuel conversion

### CONVERSION RATIO

BT1 dimensionless numbers

NT1 breeding ratio

*RT* nuclear fuel conversion

### converters (analog-digital)

USE analog-to-digital converters

### converters (digital-analog)

USE digital-to-analog converters

### converters (electric)

*INIS: 2000-04-12; ETDE: 1977-05-07*

USE dc to dc converters

### converters (image)

USE image converters

### converters (pulse)

USE pulse converters

### convertol process

*INIS: 2000-04-12; ETDE: 1977-06-24*

*Process developed in Germany for cleaning and dewatering coal-washery slurries.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE coal preparation

### CONVEX MANIFOLDS

*INIS: 1976-09-06; ETDE: 1976-11-01*

BT1 mathematical manifolds

### CONVEYORS

*INIS: 1985-12-10; ETDE: 1977-03-04*

\*BT1 haulage equipment

NT1 belt conveyors

NT1 chain conveyors

*RT* materials handling

*RT* mining equipment

*RT* transport

### cony

1996-07-08

(Prior to July 1996 PIKAS was a valid ETDE descriptor.)

USE mammals

### COOK-1 REACTOR

*Indiana Michigan Power Co., Bridgman, Michigan, USA.*

*UF donald c. cook-1 reactor*

\*BT1 pwr type reactors

### COOK-2 REACTOR

*Indiana Michigan Power Co., Bridgman, Michigan, USA.*

*UF donald c. cook-2 reactor*

\*BT1 pwr type reactors

### cook inlet

*INIS: 1992-06-04; ETDE: 1977-01-28*

USE gulf of alaska

### cooking

*INIS: 2000-04-12; ETDE: 1979-12-10*

SEE food processing

### cooking (food)

*INIS: 1984-04-04; ETDE: 2002-06-13*

USE food processing

### COOLANT CLEANUP SYSTEMS

1977-10-17

\*BT1 primary coolant circuits

*RT* cleaning

*RT* decontamination

*RT* extraction apparatuses

*RT* filters

*RT* purification

### coolant-fuel interactions

USE fuel-coolant interactions

### COOLANT LOOPS

*For reactors use REACTOR COOLING SYSTEMS or IN PILE LOOPS.*

*UF loops (coolant)*

\*BT1 cooling systems

*RT* auxiliary water systems

*RT* bypasses

*RT* circulating systems

*RT* closed-cycle cooling systems

*RT* cooling

*RT* heat transfer fluids

*RT* heating loops

*RT* open-cycle cooling systems

### COOLANTS

*See also specific coolant materials.*

NT1 organic coolants

*RT* cooling

*RT* cutting fluids

*RT* fuel-coolant interactions

*RT* gases

*RT* heavy water

*RT* liquid metals

*RT* loss of coolant

*RT* molten salts

*RT* oils

*RT* reactor cooling systems

*RT* reactor materials

*RT* refrigerants

*RT* steam

*RT* water

*RT* water chemistry

### coolers

USE heat exchangers

### COOLING

*SF heat dissipation*

NT1 district cooling

NT1 evaporative cooling

NT1 film cooling

NT1 fog cooling

NT1 gas cooling

NT1 radiative cooling

NT1 refrigeration

NT2 geothermal refrigeration

NT2 helium dilution refrigeration

NT2 solar refrigeration

NT1 splat cooling

NT1 spray cooling

NT1 subcooling

NT1 sublimation cooling

*RT* air conditioning

*RT* coolant loops

*RT* coolants

*RT* cooling ponds

*RT* cooling systems

*RT* cooling time

*RT* cooling towers

*RT* fuel cooling time

*RT* heat exchangers

RT heat extraction  
 RT heat pumps  
 RT heat transfer  
 RT heating  
 RT ice condensers  
 RT once-through cooling systems  
 RT reactor cooling systems  
 RT temperature control  
 RT temperature noise  
 RT vapor condensation  
 RT water  
 RT water coolers

**COOLING LOAD**

INIS: 2000-04-12; ETDE: 1975-10-01

RT air conditioning  
 RT heat gain  
 RT heating load  
 RT solar heating  
 RT sun shades

**COOLING PONDS**

1992-06-05

UF ponds (cooling)  
 UF spray ponds  
 \*BT1 ponds  
 \*BT1 water reservoirs  
 RT cooling  
 RT cooling systems  
 RT lakes

**COOLING SYSTEMS**

1976-02-11

SF thermally active structural components

BT1 energy systems  
 NT1 closed-cycle cooling systems  
 NT1 condenser cooling systems  
 NT1 coolant loops  
 NT1 once-through cooling systems  
 NT1 open-cycle cooling systems  
 NT1 reactor cooling systems  
 NT2 direct cycle cooling systems  
 NT2 dual cycle cooling systems  
 NT2 integrated cooling systems  
 NT2 primary coolant circuits  
 NT3 coolant cleanup systems  
 NT2 rcic systems  
 NT2 rhr systems  
 NT2 secondary coolant circuits  
 NT2 shrouds  
 NT1 thermonuclear reactor cooling systems  
 RT absorption refrigeration cycle  
 RT ceiling fans  
 RT chemical heat pumps  
 RT cooling  
 RT cooling ponds  
 RT cooling towers  
 RT discharge canals  
 RT evaporative cooling  
 RT intake structures  
 RT legionella pneumophila  
 RT refrigerating machinery  
 RT refrigerators  
 RT vapor compression refrigeration cycle

**cooling systems (fission reactor)**

1993-11-05

USE reactor cooling systems

**cooling systems (fusion reactor)**

INIS: 1993-11-05; ETDE: 2002-06-13

USE thermonuclear reactor cooling systems

**COOLING TIME**

INIS: 1984-04-04; ETDE: 1979-09-26

NT1 fuel cooling time  
 RT cooling  
 RT heat extraction

**cooling tower packing grids**

2000-04-12

USE packings

**COOLING TOWERS**

UF counterflow cooling towers  
 UF crossflow cooling towers  
 UF dry-type cooling towers  
 UF forced draft cooling towers  
 UF mechanical draft cooling towers  
 UF natural draft cooling towers  
 UF wet-type cooling towers  
 SF towers  
 RT closed-cycle cooling systems  
 RT cooling  
 RT cooling systems  
 RT counterflow systems  
 RT crossflow systems  
 RT evaporative cooling  
 RT heat exchangers  
 RT open-cycle cooling systems  
 RT packings  
 RT reactor components  
 RT vapor condensers

**cooling water chemical treatment**

1993-11-05

USE water chemistry

**COOPER PAIRS**

RT bose-einstein statistics  
 RT coherence length  
 RT electrons  
 RT fermi level  
 RT superconductivity

**COOPER REACTOR**

Nebraska Public Power District, Brownville, Nebraska, USA.

\*BT1 bwr type reactors

**COOPERATION**

INIS: 1986-07-10; ETDE: 1979-12-17

NT1 interagency cooperation  
 NT1 intergovernmental cooperation  
 NT1 international cooperation  
 NT1 joint ventures  
 NT1 regional cooperation  
 RT agreements  
 RT cooperatives  
 RT coordinated research programs  
 RT interlaboratory comparisons

**cooperative spontaneous emission**

INIS: 1993-11-05; ETDE: 2002-06-13

USE superradiance

**COOPERATIVES**

INIS: 2000-06-27; ETDE: 1980-01-15

To be used in coordination with the descriptor for the pertinent industry or utility.

UF agricultural cooperatives  
 UF electric cooperatives  
 UF petroleum cooperatives  
 RT cooperation  
 RT electric utilities  
 RT farms  
 RT market  
 RT monopolies  
 RT small businesses  
 RT socio-economic factors

**COORDINATED RESEARCH PROGRAMS**

Research based on a common plan but carried out in various locations. This descriptor to be used in coordination with descriptors for the institutions or countries involved.

UF large coil program  
 BT1 research programs

NT1 consolidated fuel reprocessing program

NT1 ifip

RT cooperation  
 RT dumand project  
 RT interlaboratory comparisons  
 RT international agreements  
 RT international cooperation  
 RT international organizations  
 RT planning

**COORDINATES**

(From December 1975 till February 1997 AZIMUTH was a valid ETDE descriptor.)

UF grids (coordinates)

UF position (optical)

UF position (radio)

SF azimuth

NT1 cartesian coordinates

NT1 curvilinear coordinates

NT2 magnetic flux coordinates

NT1 geomagnetic coordinates

NT1 hylleraas coordinates

RT center-of-mass system

RT global positioning system

RT laboratory system

RT mathematics

RT mesh generation

RT position operators

RT space dependence

RT sun charts

**COORDINATION NUMBER**

RT complexes

RT coordination valences

RT ligands

**COORDINATION VALENCES**

BT1 valence

RT complexes

RT coordination number

RT crystal lattices

RT structural chemical analysis

**copaiba**

INIS: 2000-04-12; ETDE: 1983-02-09

(Prior to March 1997 COPAIFERA was used for this concept in ETDE.)

USE trees

**copaifera**

INIS: 2000-04-12; ETDE: 1981-06-17

Trees that produce an oil which can be used directly, without processing, in diesel engines. (Prior to March 1997 this was a valid ETDE descriptor.)

USE trees

**COPEPODS**

INIS: 1992-07-17; ETDE: 1976-05-13

(Until July 1992, this concept was indexed to CRUSTACEANS.)

\*BT1 crustaceans

RT zooplankton

**COPOLYMERIZATION**

Polymerization of molecules of different types.

\*BT1 polymerization

**COPOLYMERS**

INIS: 1975-11-07; ETDE: 1975-12-16

\*BT1 organic polymers

**COPPER**

\*BT1 transition elements

**COPPER 52**

2007-10-22

\*BT1 copper isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

**COPPER 53**

2007-10-22

- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes

**COPPER 54**

2007-10-22

- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 proton decay radioisotopes

**COPPER 55**

2007-10-22

- \*BT1 copper isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COPPER 56**

INIS: 2001-09-05; ETDE: 2002-02-06

- \*BT1 beta-plus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**COPPER 57**

INIS: 1980-05-14; ETDE: 1977-11-09

- \*BT1 beta-plus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**COPPER 58**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**COPPER 59**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**COPPER 60**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**COPPER 61**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COPPER 61 TARGET**

ETDE: 1976-07-09

- BT1 targets

**COPPER 62**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**COPPER 63**

- \*BT1 copper isotopes

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- RT copper 63 reactions

**COPPER 63 BEAMS**

INIS: 1978-11-24; ETDE: 1979-05-03

- \*BT1 ion beams

**COPPER 63 REACTIONS**

- \*BT1 heavy ion reactions
- RT copper 63

**COPPER 63 TARGET**

ETDE: 1976-07-09

- BT1 targets

**COPPER 64**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**COPPER 64 TARGET**

INIS: 1978-04-21; ETDE: 1978-07-06

- BT1 targets

**COPPER 65**

- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**COPPER 65 REACTIONS**

- \*BT1 heavy ion reactions

**COPPER 65 TARGET**

ETDE: 1976-07-09

- BT1 targets

**COPPER 66**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**COPPER 67**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COPPER 68**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**COPPER 69**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**COPPER 70**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**COPPER 71**

1982-07-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**COPPER 72**

1982-07-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**COPPER 73**

1982-07-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**COPPER 74**

1989-07-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**COPPER 75**

INIS: 1990-05-17; ETDE: 1990-06-01

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**COPPER 76**

1992-03-17

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**COPPER 77**

1992-03-18

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**COPPER 78**

1992-03-18

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**COPPER 79**

1992-03-18

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**COPPER 80**

2007-10-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**COPPER ADDITIONS**

1996-07-17

Alloys containing not more than 1% Cu are listed here.

- \*BT1 copper alloys
- NT1 alloy-ni43fe33cr16mo3
- NT2 nimonic pe16

NT1 alloy-ni60co15cr10al6ti5mo3  
 NT2 alloy-in-100  
 NT1 duranickel  
 NT1 steel-cr2mov  
 NT1 steel-cr2nimov  
 NT1 steel-crmov  
 NT1 steel-crni  
 NT1 steel-mncumo  
 NT2 steel-astm-a537  
 NT1 steel-ni3cr  
 NT1 steel-ni4crw  
 NT1 steel-nicr  
 NT1 steel-nicrmo

**COPPER ALLOYS**

1996-11-13

*Alloys containing more than 1% Cu.*

UF alloy-ge

\*BT1 transition element alloys

NT1 alloy-al95cu4

NT2 duralumin

NT1 alloy-ni43fe30cr22mo3

NT2 incoloy 825

NT1 alloy-ni66cu32

NT2 monel 400

NT1 alloy-yundk 25ba

NT1 bondur

NT1 copper additions

NT2 alloy-ni43fe33cr16mo3

NT3 nimonic pe16

NT2 alloy-ni60co15cr10al6ti5mo3

NT3 alloy-in-100

NT2 duranickel

NT2 steel-cr2mov

NT2 steel-cr2nimov

NT2 steel-crmov

NT2 steel-crni

NT2 steel-mncumo

NT3 steel-astm-a537

NT2 steel-ni3cr

NT2 steel-ni4crw

NT2 steel-nicr

NT2 steel-nicrmo

NT1 copper base alloys

NT2 alloy-cu52ni47

NT3 constantan

NT2 alloy-cu70ni30

NT2 alloy-cu90ni10

NT2 brass

NT3 brass-alpha

NT3 brass-beta

NT2 bronze

NT2 heusler alloys

NT2 manganin

NT2 muntz metal

NT2 nickeline alloy

NT2 ounce metal

NT2 tungsten bronze

NT1 cunico

NT1 heddur

NT1 illium

NT1 lynite

NT1 magnalium

NT1 ni-o-nel

NT1 steel-cd-4mcu

NT1 steel-cr17cu4ni4nb-l

NT2 stainless steel-17-4ph

NT1 steel-in-787

NT1 zamak

**COPPER ARSENIDES**

INIS: 1991-09-16; ETDE: 1985-09-24

\*BT1 arsenides

\*BT1 copper compounds

**COPPER BASE ALLOYS**

1996-06-28

UF german silver

UF nickel silver

UF resistal

UF white copper

\*BT1 copper alloys

NT1 alloy-cu52ni47

NT2 constantan

NT1 alloy-cu70ni30

NT1 alloy-cu90ni10

NT1 brass

NT2 brass-alpha

NT2 brass-beta

NT1 bronze

NT1 heusler alloys

NT1 manganin

NT1 muntz metal

NT1 nickeline alloy

NT1 ounce metal

NT1 tungsten bronze

**COPPER BORIDES**

\*BT1 borides

\*BT1 copper compounds

**COPPER BROMIDES**

\*BT1 bromides

\*BT1 copper halides

**COPPER CARBIDES**

\*BT1 carbides

\*BT1 copper compounds

**COPPER CARBONATES**

\*BT1 carbonates

\*BT1 copper compounds

**COPPER CHLORIDES**

\*BT1 chlorides

\*BT1 copper halides

**COPPER COMPLEXES**

\*BT1 transition element complexes

NT1 ceruloplasmin

RT phthalocyanines

**COPPER COMPOUNDS**

BT1 transition element compounds

NT1 copper arsenides

NT1 copper borides

NT1 copper carbides

NT1 copper carbonates

NT1 copper halides

NT2 copper bromides

NT2 copper chlorides

NT2 copper fluorides

NT2 copper iodides

NT1 copper hydrides

NT1 copper hydroxides

NT1 copper nitrates

NT1 copper nitrides

NT1 copper oxides

NT1 copper perchlorates

NT1 copper phosphates

NT1 copper phosphides

NT1 copper selenides

NT1 copper silicates

NT1 copper silicides

NT1 copper sulfates

NT1 copper sulfides

NT1 copper tellurides

NT1 copper tungstates

NT1 cuprates

**COPPER FLUORIDES**

\*BT1 copper halides

\*BT1 fluorides

**COPPER HALIDES**

1986-04-03

\*BT1 copper compounds

\*BT1 halides

NT1 copper bromides

NT1 copper chlorides

NT1 copper fluorides

NT1 copper iodides

**COPPER HYDRIDES**

\*BT1 copper compounds

\*BT1 hydrides

**COPPER HYDROXIDES**

\*BT1 copper compounds

\*BT1 hydroxides

**COPPER IODIDES**

\*BT1 copper halides

\*BT1 iodides

**COPPER IONS**

\*BT1 ions

**COPPER ISOTOPES**

1999-07-16

BT1 isotopes

NT1 copper 52

NT1 copper 53

NT1 copper 54

NT1 copper 55

NT1 copper 56

NT1 copper 57

NT1 copper 58

NT1 copper 59

NT1 copper 60

NT1 copper 61

NT1 copper 62

NT1 copper 63

NT1 copper 64

NT1 copper 65

NT1 copper 66

NT1 copper 67

NT1 copper 68

NT1 copper 69

NT1 copper 70

NT1 copper 71

NT1 copper 72

NT1 copper 73

NT1 copper 74

NT1 copper 75

NT1 copper 76

NT1 copper 77

NT1 copper 78

NT1 copper 79

NT1 copper 80

**COPPER NITRATES**

\*BT1 copper compounds

\*BT1 nitrates

**COPPER NITRIDES**

1989-12-08

\*BT1 copper compounds

\*BT1 nitrides

**COPPER ORES**

BT1 ores

**COPPER OXIDE SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-08-04

\*BT1 solar cells

**COPPER OXIDES**

\*BT1 copper compounds

\*BT1 oxides

RT cuprates

RT oxide minerals

RT sengierite

**COPPER PERCHLORATES**

\*BT1 copper compounds

\*BT1 perchlorates

**COPPER PHOSPHATES**

\*BT1 copper compounds

\*BT1 phosphates

RT phosphate minerals

RT torbernite

**COPPER PHOSPHIDES**

1991-09-16

- \*BT1 copper compounds
- \*BT1 phosphides

**COPPER SELENIDE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1981-07-18

- \*BT1 solar cells

**COPPER SELENIDES**

INIS: 1976-07-08; ETDE: 1975-10-01

- \*BT1 copper compounds
- \*BT1 selenides

**COPPER SILICATES**

1996-11-13

- \*BT1 copper compounds
- \*BT1 silicates

**COPPER SILICIDES**

1977-01-26

- \*BT1 copper compounds
- \*BT1 silicides

**COPPER SULFATES**

1996-07-18

- \*BT1 copper compounds
  - \*BT1 sulfates
- RT sulfate minerals

**COPPER SULFIDE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1981-07-18

- \*BT1 solar cells

**COPPER SULFIDES**

- \*BT1 copper compounds
  - \*BT1 sulfides
- RT chalcopyrite
- RT sulfide minerals

**COPPER TELLURIDES**

1978-02-23

- \*BT1 copper compounds
- \*BT1 tellurides

**COPPER TUNGSTATES**

- \*BT1 copper compounds
- \*BT1 tungstates

**copper vapor lasers**

INIS: 1984-04-04; ETDE: 1984-05-10

(Until August 1992, this was indexed by GAS LASERS.)

- USE metal vapor lasers

**COPPICES**

INIS: 1993-07-14; ETDE: 1981-10-24

*Forests or thickets originating mainly from shoots or root suckers of stumps rather than from seed.*

- BT1 forests
- RT biomass plantations
- RT forest litter

**COPRECIPITATION**

- \*BT1 precipitation
- RT coalescence
- RT flocculation

**COPROCESSING**

INIS: 2000-06-27; ETDE: 1988-02-26

*Processing coal and petroleum residues together.*

- BT1 processing

**CORAL-1 REACTOR***Uncooled. Junta de Energia Nuclear, Madrid, Spain.*

- \*BT1 enriched uranium reactors
- \*BT1 fast reactors
- \*BT1 research reactors
- \*BT1 zero power reactors

**CORALS**

- \*BT1 cnidaria

**CORCHORUS**

- \*BT1 magnoliopsida
- NT1 jute

**cordillera de los andes**

- USE andes

**CORDOBA REACTOR**

INIS: 1978-02-23; ETDE: 1978-04-28

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

**cordova quad cities-1 reactor**

- USE quad cities-1 reactor

**cordova quad cities-2 reactor**

- USE quad cities-2 reactor

**cordylite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE carbonate minerals
- USE radioactive minerals

**core (earth)**

INIS: 1988-02-02; ETDE: 2002-06-13

- USE earth core

**core barrel**

INIS: 2000-04-12; ETDE: 1978-07-05

(Prior to April 1997 CORING EQUIPMENT was used for this concept in ETDE.)

- USE drilling equipment

**CORE CATCHERS***Structures under core for retaining molten debris following meltdown accident.*

- BT1 reactor components
- RT corium
- RT meltdown
- RT reactor cores

**CORE FLOODING SYSTEMS**

- \*BT1 eccs
- RT loss of coolant

**core polarization (nuclei)**

INIS: 1984-04-04; ETDE: 2000-11-20

- USE excitation
- USE nuclear cores

**CORE SPRAY SYSTEMS**

- \*BT1 eccs
- RT fog cooled reactors
- RT fog cooling
- RT loss of coolant

**cores (drill)**

- USE drill cores

**cores (magnet)**

- USE magnet cores

**cores (magnetic)**

- USE magnetic cores

**cores (nuclear)**

- USE nuclear cores

**cores (reactor)**

- USE reactor cores

**coring equipment**

INIS: 2000-04-12; ETDE: 1978-07-05

(Prior to April 1997 this was a valid ETDE descriptor.)

- USE drilling equipment

**CORING FLUIDS**

INIS: 2000-04-12; ETDE: 1981-12-14

- RT cuttings removal
- RT drill cores
- RT drilling fluids

**CORIOLIS FORCE**

- RT backbending
- RT rotation

**CORIUM**

INIS: 1977-10-17; ETDE: 1977-06-02

*Molten mixture of fuel, cladding and other core structural material resulting from a meltdown accident.*

- RT core catchers
- RT meltdown
- RT reactor accidents
- RT reactor cores

**CORK**

- RT bark
- RT wood

**corn (maize)**

- USE maize

**CORN OIL**

UF maize oil

- \*BT1 triglycerides
- \*BT1 vegetable oils

**corn stover**

INIS: 2000-04-12; ETDE: 1979-04-11

- USE agricultural wastes
- USE maize

**CORNEA**

- \*BT1 eyes

**CORNELL 10-GEV SYNCHROTRON**

- \*BT1 synchrotrons

**cornell electron-positron storage ring**

INIS: 1979-01-18; ETDE: 1979-02-23

- USE cesr storage ring

**CORNELL TRIGA-MK-2 REACTOR**

Cornell, Univ., Ithaca, New York, USA.

UF triga-2-cornell reactor

- \*BT1 training reactors
- \*BT1 triga type reactors

**cornell university zero power reactor**

1993-11-05

- USE zpr reactor

**corona (solar)**

- USE solar corona

**CORONA COUNTERS**

- \*BT1 radiation detectors
- RT proportional counters
- RT spark counters

**CORONA DISCHARGES**

- BT1 electric discharges
- RT lichtenberg figures

**coronae (stellar)**

INIS: 1984-02-22; ETDE: 2002-06-13

- USE stellar coronae

**CORONARIES**

- \*BT1 arteries
- RT heart
- RT heart failure
- RT myocardial infarction
- RT myocardium

**corporation law**

INIS: 1990-12-15; ETDE: 2002-06-13  
(Prior to December 1990, this was a valid descriptor.)  
USE laws

**corps of engineers**

INIS: 2000-04-12; ETDE: 1980-08-25  
(Prior to December 1991 this was a valid ETDE descriptor.)  
USE us corps of engineers

**corral canyon nuclear power reactor-1**

2000-04-12  
USE malibu-1 reactor

**CORRECTIONS**

See also *REMEDIAL ACTION*.

NT1 coulomb correction  
NT1 radiative corrections  
NT1 rydberg correction  
RT errors  
RT modifications

**CORRELATED-PARTICLE MODELS**

\*BT1 particle models  
RT correlation functions  
RT multiple production

**correlation energy**

USE electron correlation

**CORRELATION FUNCTIONS**

BT1 functions  
RT correlated-particle models  
RT reactor noise

**CORRELATIONS**

NT1 angular correlation  
NT2 perturbed angular correlation  
NT3 differential pac  
NT3 integral pac  
NT1 electron correlation  
NT1 kramers-kronig correlation  
RT comparative evaluations  
RT multivariate analysis  
RT regression analysis

**CORROSION**

BT1 chemical reactions  
NT1 crevice corrosion  
NT1 electrochemical corrosion  
NT1 fretting corrosion  
NT1 intergranular corrosion  
NT1 nodular corrosion  
NT1 pitting corrosion  
NT1 stress corrosion  
RT antifoulants  
RT corrosion denting  
RT corrosion fatigue  
RT corrosion pickling  
RT corrosion products  
RT corrosion protection  
RT corrosion resistance  
RT corrosive effects  
RT erosion  
RT failures  
RT fouling  
RT materials testing  
RT oxidation  
RT passivity  
RT scaling  
RT surface properties  
RT thermochemical diagrams  
RT weathering

**CORROSION DENTING**

INIS: 1979-05-28; ETDE: 1979-09-06  
UF denting (corrosion)  
BT1 deformation

RT corrosion  
RT tubes  
RT water chemistry

**CORROSION FATIGUE**

INIS: 1981-07-06; ETDE: 1975-12-16  
\*BT1 fatigue  
RT corrosion

**corrosion inhibition**

USE corrosion protection

**CORROSION INHIBITORS**

UF inhibitors (corrosion)  
RT corrosion protection

**CORROSION PICKLING**

\*BT1 pickling  
RT corrosion

**CORROSION PRODUCTS**

RT corrosion  
RT electromagnetic filters  
RT oxidation  
RT oxides  
RT scaling

**CORROSION PROTECTION**

UF anticorrosion  
UF corrosion inhibition  
UF protection (corrosion)  
NT1 anodization  
NT1 cathodic protection  
RT coatings  
RT corrosion  
RT corrosion inhibitors  
RT corrosion resistance  
RT paints  
RT passivation  
RT scale control  
RT surface coating

**CORROSION RESISTANCE**

RT corrosion  
RT corrosion protection  
RT passivity

**CORROSION RESISTANT ALLOYS**

1996-11-13

BT1 alloys  
NT1 alloy-co36cr22ni22w15fe3  
NT2 haynes 188 alloy  
NT1 alloy-co54cr20w15ni10  
NT2 alloy-hs-25  
NT2 haynes 25 alloy  
NT1 alloy-co60cr30w4  
NT2 stellite 6  
NT1 alloy-fe44ni33cr21  
NT2 incoloy 800h  
NT1 alloy-fe46ni33cr21  
NT2 incoloy 800  
NT2 incoloy 802  
NT1 alloy-mo99  
NT2 alloy-tzm  
NT2 alloy-zm-2a  
NT1 alloy-ni41fe40cr16nb3  
NT2 inconel 706  
NT1 alloy-ni43fe30cr22mo3  
NT2 incoloy 825  
NT1 alloy-ni43fe33cr16mo3  
NT2 nimonic pe16  
NT1 alloy-ni45fe34cr20  
NT1 alloy-ni46cr23co19ti5al4  
NT2 alloy-in-939  
NT1 alloy-ni49cr22fe18mo9  
NT2 hastelloy x  
NT1 alloy-ni50co20cr15al5mo5  
NT2 nimonic 105  
NT1 alloy-ni50cr22fe18mo9  
NT2 hastelloy xr  
NT1 alloy-ni50mo32cr15si3  
NT1 alloy-ni51cr48

NT2 inconel 671  
NT1 alloy-ni53co19cr15mo5al4ti3  
NT2 udimet 700  
NT1 alloy-ni53cr19fe19nb5mo3  
NT2 inconel 718  
NT1 alloy-ni54cr22co13mo9  
NT2 inconel 617  
NT1 alloy-ni54mo17cr16fe6w4  
NT2 hastelloy c  
NT1 alloy-ni55cr19co11mo10ti3  
NT2 rene 41  
NT1 alloy-ni58cr20co14mo4ti3  
NT2 waspaloy  
NT1 alloy-ni59cr20co17ti2  
NT1 alloy-ni59cr30fe9  
NT2 inconel 690  
NT1 alloy-ni60co15cr10al6ti5mo3  
NT2 alloy-in-100  
NT1 alloy-ni60fe24cr16  
NT2 nichrome  
NT1 alloy-ni61cr16co9al3ti3w3  
NT2 alloy-in-738  
NT1 alloy-ni61cr22mo9nb4fe3  
NT2 inconel 625  
NT1 alloy-ni62cr16mo15fe3  
NT2 hastelloy s  
NT1 alloy-ni65cr25mo10  
NT2 nimonic 86  
NT1 alloy-ni65mo28fe5  
NT2 hastelloy b  
NT1 alloy-ni70mo17cr7fe5  
NT2 hastelloy n  
NT2 inor-8  
NT1 alloy-ni73cr15fe7ti3  
NT2 inconel x750  
NT1 alloy-ni73cr20mn3nb3  
NT2 inconel 82  
NT1 alloy-ni74cr13al6mo4  
NT2 inconel 713c  
NT1 alloy-ni75cr12al6mo5  
NT2 inconel 713lc  
NT1 alloy-ni76cr15fe8  
NT2 inconel 600  
NT1 alloy-ni76cr20ti2  
NT2 nimonic 80a  
NT1 alloy-ni77cr20ti2  
NT1 alloy-ra-333  
NT1 alloy-zr98sn-2  
NT2 zircaloy 2  
NT1 alloy-zr98sn-4  
NT2 zircaloy 4  
NT1 colmonoy  
NT1 heusler alloys  
NT1 incoloy 901  
NT1 rene 80  
NT1 rene 95  
NT1 steel-cd-4mcu  
NT1 steel-cr11ni10mo2ti-1  
NT1 steel-cr12  
NT2 stainless steel-403  
NT1 steel-cr12moniv  
NT1 steel-cr12mov  
NT2 alloy-ht-9  
NT1 steel-cr13  
NT2 stainless steel-410  
NT1 steel-cr13al  
NT2 stainless steel-405  
NT1 steel-cr15ni15motib  
NT1 steel-cr16  
NT2 stainless steel-430  
NT1 steel-cr16ni  
NT1 steel-cr16ni13monbv  
NT1 steel-cr16ni15mo3nb  
NT1 steel-cr16ni16monb  
NT1 steel-cr16ni8mo2  
NT2 stainless steel-16-8-2  
NT1 steel-cr17cu4ni4nb-1  
NT2 stainless steel-17-4ph  
NT1 steel-cr17mo

**NT2** stainless steel-440  
**NT1** steel-cr17ni12mo3  
**NT2** stainless steel-316  
**NT1** steel-cr17ni12mo3-l  
**NT2** stainless steel-316l  
**NT2** stainless steel-zcnd17-13  
**NT1** steel-cr17ni12monb  
**NT1** steel-cr17ni13  
**NT1** steel-cr17ni13mo2ti  
**NT1** steel-cr17ni13mo3ti  
**NT1** steel-cr17ni4mo3  
**NT1** steel-cr17ni7  
**NT2** stainless steel-301  
**NT1** steel-cr18  
**NT1** steel-cr18ni10  
**NT2** stainless steel-18-10  
**NT1** steel-cr18ni10-l  
**NT1** steel-cr18ni10ti  
**NT2** stainless steel-321  
**NT1** steel-cr18ni11  
**NT2** steel-x6crni1811  
**NT1** steel-cr18ni11nb  
**NT2** stainless steel-347  
**NT1** steel-cr18ni11nbco  
**NT2** stainless steel-348  
**NT1** steel-cr18ni12  
**NT2** stainless steel-305  
**NT1** steel-cr18ni12ti  
**NT1** steel-cr18ni8  
**NT2** stainless steel-18-8  
**NT1** steel-cr18ni9  
**NT2** stainless steel-302  
**NT1** steel-cr18ni9ti  
**NT1** steel-cr19ni10  
**NT2** stainless steel-304  
**NT1** steel-cr19ni10-l  
**NT2** stainless steel-304l  
**NT1** steel-cr20ni11  
**NT2** stainless steel-308  
**NT1** steel-cr20ni11-l  
**NT2** stainless steel-308l  
**NT1** steel-cr21mn9ni6  
**NT2** stainless steel-21-6-9  
**NT1** steel-cr23ni14  
**NT2** stainless steel-309  
**NT2** stainless steel-309s  
**NT1** steel-cr23ni18  
**NT1** steel-cr25  
**NT2** stainless steel-446  
**NT1** steel-cr25ni20  
**NT2** alloy-hk-40  
**NT2** stainless steel-310  
**NT1** steel-ni25cr20  
**NT2** stainless steel-20-25  
**NT1** steel-ni26cr15ti2movalb  
**NT2** alloy-a-286  
**NT1** steel-ni36cr12ti3al-l  
**NT1** tribaloy 800  
*RT* austenitic steels  
*RT* ferritic steels  
*RT* hastelloys  
*RT* stainless steels

**CORROSIVE EFFECTS**

1992-03-12

*RT* corrosion**cortex (adrenal)**

USE adrenal glands

**cortex (cerebral)**

USE cerebral cortex

**corticoids**

USE corticosteroids

**CORTICOSTEROIDS***UF* corticoids

\*BT1 adrenal hormones

\*BT1 hydroxy compounds

\*BT1 ketones  
 \*BT1 pregnanes  
 \*BT1 steroid hormones  
**NT1** glucocorticoids  
**NT2** corticosterone  
**NT2** cortisone  
**NT2** dexamethasone  
**NT2** hydrocortisone  
**NT2** prednisolone  
**NT2** prednisone  
**NT1** mineralocorticoids  
**NT2** aldosterone  
*RT* acth  
*RT* androgens  
*RT* cushing syndrome

**CORTICOSTERONE**

\*BT1 glucocorticoids

**cortisol**

USE hydrocortisone

**CORTISONE**

\*BT1 glucocorticoids

**CORUNDUM**

\*BT1 oxide minerals  
**NT1** ruby  
**NT1** sapphire  
*RT* aluminium oxides

**CORVUSITE**

2000-04-12

\*BT1 oxide minerals  
 \*BT1 radioactive minerals  
*RT* vanadium oxides

**CORYNEBACTERIUM FASCIANS***INIS: 1993-07-14; ETDE: 1983-05-21*

\*BT1 bacteria  
*RT* microbial eor

**CORYNEBACTERIUM PARVUM***INIS: 1978-09-28; ETDE: 1978-06-14*

\*BT1 bacteria  
*RT* immunotherapy

**cosmetics***INIS: 1984-04-04; ETDE: 1984-05-10*

USE consumer products

**COSMIC ALPHA PARTICLES**

1983-03-14

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and ALPHA PARTICLES.)

\*BT1 alpha particles  
 \*BT1 primary cosmic radiation

**COSMIC DUST**

BT1 dusts  
*RT* interstellar grains  
*RT* interstellar space  
*RT* nebulae  
*RT* star accretion

**COSMIC ELECTRONS***INIS: 1983-03-14; ETDE: 1975-07-29*

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and ELECTRONS.)

\*BT1 electrons  
 \*BT1 secondary cosmic radiation

**COSMIC GAMMA BURSTS**

\*BT1 primary cosmic radiation  
*RT* cosmic gamma sources  
*RT* cosmic x-ray bursts

**cosmic gamma rays***INIS: 2000-04-12; ETDE: 1979-02-23*

USE cosmic photons

**COSMIC GAMMA SOURCES**

BT1 cosmic ray sources  
*RT* cosmic gamma bursts  
*RT* cosmic photons  
*RT* gamma astronomy  
*RT* gamma radiation  
*RT* primary cosmic radiation

**COSMIC GASES**

\*BT1 gases  
*RT* interstellar grains  
*RT* interstellar space  
*RT* nebulae  
*RT* optical depth curve  
*RT* spectroscopic curve of growth

**COSMIC KAONS***INIS: 1985-12-10; ETDE: 1975-07-29*

(Prior to July 1975 KAONS was used for this concept in ETDE.)

\*BT1 kaons  
 \*BT1 secondary cosmic radiation

**cosmic microwave background**

2003-05-30

USE relict radiation

**COSMIC MUONS***INIS: 1983-03-14; ETDE: 1975-07-29*

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and MUONS.)

\*BT1 muons  
 \*BT1 secondary cosmic radiation

**COSMIC NEUTRINOS***INIS: 1983-03-14; ETDE: 1975-07-29*

(Prior to July 1975 NEUTRINOS was used for this concept in ETDE.)

\*BT1 cosmic radiation  
 \*BT1 neutrinos

**COSMIC NEUTRONS***INIS: 1983-03-14; ETDE: 1975-07-29*

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and NEUTRONS.)

\*BT1 neutrons  
 \*BT1 secondary cosmic radiation

**cosmic noise**

USE radio noise

**COSMIC NUCLEI***INIS: 1983-03-14; ETDE: 1975-07-29*

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and NUCLEI.)

BT1 nuclei  
 \*BT1 primary cosmic radiation

**cosmic particles**

USE cosmic radiation

**COSMIC PHOTONS***INIS: 1983-03-14; ETDE: 1975-07-29*

(Prior to July 1975 PHOTONS was used for this concept in ETDE.)

*UF* cosmic gamma rays  
*UF* cosmic x rays  
 \*BT1 cosmic radiation  
 \*BT1 photons  
*RT* cosmic gamma sources  
*RT* cosmic x-ray sources  
*RT* x-ray galaxies

**COSMIC PIONS***INIS: 1983-03-14; ETDE: 1975-07-29*

(Prior to July 1975 PIONS was used for this concept in ETDE.)

\*BT1 pions  
 \*BT1 secondary cosmic radiation

**COSMIC POSITRONS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and POSITRONS.)

\*BT1 positrons

\*BT1 secondary cosmic radiation

**COSMIC PROTONS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to July 1975 PROTONS was used for this concept in ETDE.)

\*BT1 cosmic radiation

\*BT1 protons

**COSMIC RADIATION**

1996-07-08

Not for radiation from the sun for which see SOLAR RADIATION.

UF cosmic particles

SF positive excess

\*BT1 ionizing radiations

NT1 cosmic neutrinos

NT1 cosmic photons

NT1 cosmic protons

NT1 hard component

NT1 primary cosmic radiation

NT2 cosmic alpha particles

NT2 cosmic gamma bursts

NT2 cosmic nuclei

NT2 cosmic x-ray bursts

NT1 secondary cosmic radiation

NT2 cosmic electrons

NT2 cosmic kaons

NT2 cosmic muons

NT2 cosmic neutrons

NT2 cosmic pions

NT2 cosmic positrons

NT2 cosmic showers

NT3 extensive air showers

NT1 soft component

RT background radiation

RT centauro-type events

RT cosmic radio sources

RT cosmic ray detection

RT cosmic ray flux

RT cosmic ray propagation

RT cosmic x-ray sources

RT east-west asymmetry

RT forbush decrease

RT gamma astronomy

RT north-south asymmetry

RT relict radiation

RT solar radiation

RT space flight

RT stellar activity

RT stellar radiation

RT supersonic transport

RT threshold rigidity

RT x-ray galaxies

**COSMIC RADIO SOURCES**

NT1 bl lacertae objects

NT1 h1 regions

NT1 h2 regions

NT1 pulsars

NT1 quasars

NT2 blue stellar objects

NT1 radio galaxies

NT1 supernova remnants

NT2 crab nebula

RT cosmic radiation

RT cosmic ray sources

RT markarian galaxies

RT radioastronomy

RT radiowave radiation

**COSMIC RAY DETECTION**

\*BT1 radiation detection

RT charged particle detection

RT cosmic radiation

RT cosmic ray spectrometers

RT muon detection

RT radiation detectors

RT shower counters

RT telescope counters

**COSMIC RAY FLUX**

UF flux (cosmic ray)

BT1 radiation flux

RT cosmic radiation

RT cosmic ray propagation

**COSMIC RAY PROPAGATION**

RT cosmic radiation

RT cosmic ray flux

**COSMIC RAY SOURCES**

NT1 cosmic gamma sources

NT1 cosmic x-ray sources

NT2 cosmic x-ray bursts

NT2 x-ray galaxies

RT cosmic radio sources

RT primary cosmic radiation

**COSMIC RAY SPECTROMETERS**

\*BT1 spectrometers

RT cosmic ray detection

**COSMIC SHOWERS**

\*BT1 secondary cosmic radiation

BT1 showers

NT1 extensive air showers

RT cascade showers

RT centauro-type events

**COSMIC X-RAY BURSTS**

INIS: 1983-02-04; ETDE: 1981-03-17

\*BT1 cosmic x-ray sources

\*BT1 primary cosmic radiation

RT cosmic gamma bursts

RT x radiation

**COSMIC X-RAY SOURCES**

BT1 cosmic ray sources

NT1 cosmic x-ray bursts

NT1 x-ray galaxies

RT accretion disks

RT cosmic photons

RT cosmic radiation

RT gamma astronomy

RT x radiation

**cosmic x rays**

INIS: 2000-04-12; ETDE: 1979-02-23

USE cosmic photons

**COSMIDS**

INIS: 2000-04-12; ETDE: 1988-04-15

DNA-cloning vectors constructed of both plasmid sequences and phage factors.

RT bacteriophages

RT dna-cloning

**COSMOCHEMISTRY**

BT1 chemistry

RT chemical composition

RT element abundance

RT nucleosynthesis

**cosmogony**

USE cosmology

**COSMOLOGICAL CONSTANT**

INIS: 1984-04-04; ETDE: 1984-05-08

Multiplicative constant for a term proportional to the metric in Einstein's equation relating the curvature of space to the energy-momentum tensor.

RT einstein field equations

RT general relativity theory

RT space-time

**COSMOLOGICAL MODELS**

UF einstein-de sitter model

UF models (cosmological)

BT1 mathematical models

NT1 inflationary universe

RT branes

RT expansion

RT galactic evolution

RT general relativity theory

RT m-theory

RT planet-system accretion

RT protoplanets

RT protostars

RT solar nebula

RT star accretion

RT universe

**COSMOLOGY**

UF cosmogony

NT1 dirac cosmology

RT astrophysics

RT fundamental constants

RT galactic evolution

RT general relativity theory

RT hubble effect

RT mach principle

RT matter

RT origin

RT red shift

RT schwarzschild metric

RT space-time

RT star evolution

RT universe

RT white holes

**cosmos**

USE universe

**COSMOTRON**

\*BT1 synchrotrons

**COSO HOT SPRINGS**

INIS: 1992-06-04; ETDE: 1979-07-18

\*BT1 california

**cosorb process**

INIS: 2000-04-12; ETDE: 1975-09-11

Process for the separation of CO from gaseous mixtures by selective adsorption in unique solvent.

(Prior to February 1995, this was a valid ETDE descriptor.)

USE carbon monoxide

USE solvent extraction

**COST**

UF excess costs

SF values

NT1 capitalized cost

NT1 cost overruns

NT1 external cost

NT1 life-cycle cost

NT1 operating cost

RT budgets

RT capital

RT charges

RT cost benefit analysis

RT cost estimation

RT cost recovery

RT economics

RT energy expenses

RT expenditures

RT financing

RT fuel cycle

RT inflation

RT investment

RT nuclear materials management

RT payback period

RT present worth method

RT prices



RT procurement

## COST BENEFIT ANALYSIS

\*BT1 economic analysis  
RT comparative evaluations  
RT cost  
RT cost estimation  
RT cost overruns  
RT external cost  
RT life-cycle cost  
RT technology impacts

## COST ESTIMATION

INIS: 1985-12-10; ETDE: 1982-08-11  
UF appraisal  
RT cost  
RT cost benefit analysis  
RT forecasting  
RT life-cycle cost

## COST OVERRUNS

INIS: 1985-12-10; ETDE: 1983-03-24  
BT1 cost  
RT charges  
RT cost benefit analysis  
RT procurement

## COST RECOVERY

INIS: 1992-04-09; ETDE: 1983-03-23  
UF reimbursement  
RT charges  
RT cost  
RT financing

## COSTA RICA

\*BT1 central america  
BT1 developing countries

## COSTEAM PROCESS

2000-04-12  
A process involving the pumping of a slurry consisting of pulverized coal in lignite-derived oil and a stream of carbon monoxide and/or synthesis gas into a stirred reactor at 400 degrees-450 degrees C and 4, 000 psig.  
\*BT1 coal liquefaction

## COSTER-KRONIG TRANSITIONS

BT1 auger effect  
BT1 energy-level transitions

## COSY STORAGE RING

INIS: 1992-04-16; ETDE: 1992-08-12  
Cooled synchrotron storage ring at KFZ Juelich, Federal Republic of Germany.  
UF juelich storage ring  
BT1 storage rings  
\*BT1 synchrotrons

## COTE D'IVOIRE

INIS: 1997-01-07; ETDE: 1996-12-24  
(Until January 1997 this concept was indexed to IVORY COAST.)  
UF ivory coast  
BT1 africa  
BT1 developing countries

## COTTON

RT cotton plants  
RT fibers  
RT textiles

## cotton-mouton effect

USE voigt effect

## COTTON PLANTS

\*BT1 magnoliopsida  
RT boll weevil  
RT bollworm  
RT cotton  
RT cottonseed oil

## COTTONSEED OIL

INIS: 1981-08-06; ETDE: 1980-09-22  
\*BT1 vegetable oils  
RT cotton plants

## COTTONWOODS

INIS: 1992-01-10; ETDE: 1979-03-27  
\*BT1 poplars  
RT aspens

## COUETTE FLOW

\*BT1 viscous flow

## coulomb attraction

USE coulomb field

## coulomb barrier

USE coulomb field

## COULOMB CORRECTION

BT1 corrections  
RT electromagnetic interactions

## COULOMB ENERGY

BT1 energy  
RT binding energy  
RT nolen-schiffer anomaly

## COULOMB EXCITATION

\*BT1 excitation  
RT coulomb scattering

## COULOMB FIELD

UF coulomb attraction  
UF coulomb barrier  
UF coulomb potential  
UF coulomb repulsion  
BT1 electric fields  
RT central potential  
RT coulomb ionization  
RT nuclear screening  
RT ponderomotive force

## COULOMB IONIZATION

INIS: 1977-09-15; ETDE: 1977-11-10  
Ionization produced by Coulomb forces between a projectile and the target.  
BT1 ionization  
RT coulomb field  
RT inner-shell ionization

## coulomb potential

USE coulomb field

## coulomb repulsion

USE coulomb field

## COULOMB SCATTERING

\*BT1 elastic scattering  
\*BT1 electromagnetic interactions  
RT coulomb excitation  
RT electron cooling  
RT potential scattering

## coulometry

USE voltametry

## COUMARIN

SF coumarins  
\*BT1 anticoagulants  
\*BT1 lactones  
\*BT1 pyrans  
RT psoralen

## coumarins

INIS: 2000-04-12; ETDE: 1981-04-20  
(Prior to March 1994, this was a valid ETDE descriptor.)  
SEE anticoagulants  
SEE coumarin

## council for mutual economic assistance

1993-11-05  
USE comecon

## council on environmental quality

INIS: 2000-04-12; ETDE: 1981-03-17  
USE us ceq

## COUNTER CURRENT

RT chromatography  
RT counterflow systems  
RT solvent extraction

## counterflow cooling towers

1985-12-10  
USE cooling towers  
USE counterflow systems

## COUNTERFLOW SYSTEMS

1985-12-10  
UF counterflow cooling towers  
RT cooling towers  
RT counter current  
RT evaporators  
RT hydrodynamics  
RT vapor condensers

## counters (radiation)

USE radiation detectors

## COUNTING CIRCUITS

BT1 electronic circuits  
RT counting ratemeters  
RT counting tubes  
RT pulse circuits  
RT pulse techniques  
RT radiation detection  
RT radiation detectors  
RT scalars  
RT switching circuits

## COUNTING RATEMETERS

UF ratemeters (counting)  
\*BT1 electronic equipment  
NT1 linear ratemeters  
NT1 logarithmic ratemeters  
RT counting circuits  
RT counting rates  
RT exposure ratemeters  
RT pulse integrators  
RT pulse techniques

## COUNTING RATES

RT counting ratemeters

## COUNTING TECHNIQUES

NT1 absolute counting  
NT1 charge plunger method  
NT1 cherenkov counting  
NT1 coincidence methods  
NT2 coincidence spectrometry  
NT2 tagged photon method  
NT1 dsa method  
NT1 four-pi counting  
NT1 low level counting  
NT1 photoelectron counting  
NT1 radioisotope scanning  
NT2 scintiscanning  
NT3 radioimmunoscintigraphy  
NT1 scintillation counting  
NT1 sequential scanning  
NT1 whole-body counting  
RT activity meters  
RT anticoincidence  
RT electronic circuits  
RT electronic equipment  
RT hodoscopes  
RT position sensitive detectors  
RT pulse techniques  
RT radiation detectors

*RT* radioassay  
*RT* recording systems  
*RT* telescope counters

**COUNTING TUBES**

*UF* dekatrons  
*UF* trochotrons  
*BT1* electron tubes  
*RT* counting circuits  
*RT* pulse techniques  
*RT* scalars

**county buildings**

*INIS: 2000-04-12; ETDE: 1981-01-09*  
 USE public buildings

**couple corrosion**

USE electrochemical corrosion

**COUPLED CHANNEL BORN APPROXIMATION**

*UF* *cba*  
 \**BT1* born approximation  
*RT* coupled channel theory  
*RT* nuclear reaction kinetics  
*RT* nuclear reactions  
*RT* scattering

**COUPLED CHANNEL THEORY**

*RT* collisions  
*RT* coupled channel born approximation  
*RT* nuclear reactions

**coupled fast reactor measurement facility**

*1993-11-05*  
 USE cfrmf reactor

**COUPLED REACTOR CORES**

\**BT1* reactor cores

**COUPLING**

*Not for the concept covered by JOINING.*

*NT1* electron-electron coupling  
*NT1* electron-hole coupling  
*NT1* electron-ion coupling  
*NT1* electron-phonon coupling  
*NT1* intermediate coupling  
*NT2* j-j coupling  
*NT2* l-s coupling  
*NT1* pseudovector coupling  
*NT1* ruderman-kittel coupling  
*RT* aligned coupling scheme  
*RT* bootstrap model  
*RT* bound state  
*RT* coupling constants  
*RT* decoupling  
*RT* goldberger-treiman relation  
*RT* impulse approximation  
*RT* interactions  
*RT* particle-core coupling model  
*RT* quasibound state  
*RT* strong-coupling model  
*RT* weak-coupling model

**COUPLING CONSTANTS**

*RT* coupling

**COUPLINGS**

*INIS: 1996-04-22; ETDE: 1976-09-28*  
 (Until April 1996 this concept was indexed to MACHINE PARTS.)  
*RT* fasteners  
*RT* joining

**couplings (machine parts)**

*INIS: 2000-04-12; ETDE: 1984-05-10*  
 USE machine parts

**court buildings**

*INIS: 2000-04-12; ETDE: 1981-01-09*  
 USE public buildings

**COURTS**

*INIS: 1976-12-08; ETDE: 1977-06-24*  
*RT* dispute settlements  
*RT* hearings  
*RT* lawsuits

**COVALENCE**

*UF* covalency  
*RT* binding energy

**covalency**

USE covalence

**COVER GAS**

*The inert gas blanket over the liquid metal in a liquid metal cooled reactor.*  
 \**BT1* gases  
 \**BT1* inert atmosphere

**COVERINGS**

*1999-05-27*  
*UF* casings  
*RT* coatings  
*RT* containers  
*RT* double glazing  
*RT* glazing materials  
*RT* masking  
*RT* shells  
*RT* shutters  
*RT* tubes

**cow-milkers**

USE radioisotope generators

**cowboy event**

*1997-01-28*  
 (Prior to February 1996 this was a valid ETDE descriptor.)  
 USE chemical explosions  
 USE vela project

**cowpea plants**

*INIS: 1992-05-07; ETDE: 2002-06-13*  
 USE vigna

**COWS**

\**BT1* cattle  
*RT* milk

**COYOTES**

*INIS: 1993-02-18; ETDE: 1981-04-17*  
*UF* *canis latrans*  
 \**BT1* mammals  
*RT* foxes  
*RT* wild animals  
*RT* wolves

**cp-11 reactor**

USE argonaut reactor

**CP-2 REACTOR**

*ANL, Argonne, Illinois, USA. Shut down in 1954.*  
*UF* *chicago pile-2 reactor*  
 \**BT1* graphite moderated reactors  
 \**BT1* materials testing reactors  
 \**BT1* natural uranium reactors  
 \**BT1* research reactors  
 \**BT1* thermal reactors

**cp-3' reactor**

*2000-04-12*  
 USE cp-3m reactor

**CP-3 REACTOR**

*ANL, Argonne, Illinois, USA. Shut down in 1963.*  
*UF* *argonne heavy water reactor*  
 \**BT1* heavy water cooled reactors  
 \**BT1* heavy water moderated reactors  
 \**BT1* natural uranium reactors  
 \**BT1* research reactors

\**BT1* tank type reactors  
 \**BT1* thermal reactors

**CP-3M REACTOR**

*2000-04-12*  
*ANL, Argonne, Illinois, USA.*  
*UF* *argonne heavy water modified reactor*

*UF* *cp-3' reactor*  
 \**BT1* enriched uranium reactors  
 \**BT1* heavy water cooled reactors  
 \**BT1* heavy water moderated reactors  
 \**BT1* research reactors  
 \**BT1* tank type reactors  
 \**BT1* thermal reactors

**CP-5 REACTOR**

*ANL, Argonne, Illinois, USA. Shut down in 1979.*  
*UF* *argonne research reactor*  
 \**BT1* enriched uranium reactors  
 \**BT1* heavy water cooled reactors  
 \**BT1* heavy water moderated reactors  
 \**BT1* isotope production reactors  
 \**BT1* research reactors  
 \**BT1* tank type reactors  
 \**BT1* test reactors  
 \**BT1* thermal reactors

**CP-6 REACTOR**

*2000-04-12*  
*ANL, Argonne, Illinois, USA.*  
*UF* *ahfr reactor*  
*UF* *argonne advanced research reactor*  
*UF* *argonne high flux reactor*  
 \**BT1* pool type reactors  
 \**BT1* research reactors

**CP INVARIANCE**

*BT1* invariance principles  
*RT* kobayashi-maskawa matrix

**CPB**

*UF* *competitive protein binding*  
 \**BT1* biochemical reaction kinetics  
*RT* antigen-antibody reactions  
*RT* enzyme immunoassay  
*RT* pbi  
*RT* proteins  
*RT* radioimmunoassay  
*RT* radiopharmaceuticals

**cpdta**

*1996-07-18*  
*Cyclopentanediaminetetraacetic acid.*  
 (Until July 1996 this was a valid descriptor.)  
 USE amino acids  
 USE chelating agents

**cpm**

*INIS: 1985-10-23; ETDE: 2002-06-13*  
*Critical Path Method.*  
 USE pert method

**CPPNM**

*INIS: 1985-06-10; ETDE: 1990-11-26*  
*Convention on the Physical Protection of Nuclear Materials.*  
*UF* *convention on physical protection of nuclear material*  
*UF* *convention on the physical protection of nuclear materials*  
*UF* *nuclear materials, convention on physical protection*  
*UF* *physical protection of nuclear material, convention*  
 \**BT1* international agreements  
*RT* nuclear materials diversion  
*RT* nuclear materials management  
*RT* physical protection

**cpr**

*INIS: 2000-04-12; ETDE: 1983-04-07*  
 USE first aid

**CPT THEOREM**

BT1 invariance principles

**cpu-400 combustion plant**

*INIS: 2000-04-12; ETDE: 1976-01-23*  
 (Prior to February 1995, this was a valid  
 ETDE descriptor.)  
 USE waste processing plants

**CRAB NEBULA**

BT1 nebulae  
 \*BT1 supernova remnants  
 RT pulsars

**CRABS**

*INIS: 1993-07-14; ETDE: 1981-06-15*  
 \*BT1 decapods  
 RT seafood

**crack growth**

*INIS: 1980-09-12; ETDE: 1980-10-07*  
 USE crack propagation

**CRACK PROPAGATION**

*INIS: 1980-09-12; ETDE: 1980-10-07*  
 UF crack growth  
 SF failure propagation  
 RT brittleness  
 RT cracks  
 RT fatigue  
 RT fracture mechanics  
 RT fractures  
 RT stress intensity factors

**CRACKING**

*1998-01-28*  
 \*BT1 pyrolysis  
 NT1 catalytic cracking  
 NT1 hydrocracking  
 NT1 thermal cracking  
 RT petrochemistry

**CRACKS**

RT ceramography  
 RT crack propagation  
 RT defects  
 RT fracture mechanics  
 RT fracture properties  
 RT fractures  
 RT geologic fissures  
 RT geologic fractures  
 RT hydraulic fractures  
 RT notches  
 RT stress intensity factors  
 RT thermal fractures

**CRACOW AIC-144 CYCLOTRON**

*INIS: 1982-07-22; ETDE: 1982-08-11*  
 UF aic-144 cyclotron  
 \*BT1 isochronous cyclotrons

**cracow c-48 cyclotron**

*INIS: 1996-07-18; ETDE: 1979-02-23*  
 (Until July 1996 this was a valid descriptor.)  
 USE isochronous cyclotrons

**CRACOW U-120 CYCLOTRON**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
 \*BT1 cyclotrons  
 \*BT1 heavy ion accelerators

**CRAFTSMEN**

*INIS: 1996-05-15; ETDE: 1978-08-07*  
 UF artisans  
 BT1 personnel  
 RT builders  
 RT occupations

**CRANES**

\*BT1 remote handling equipment  
 RT hoists  
 RT materials handling

**CRANKING MODEL**

\*BT1 nuclear models  
 RT deformed nuclei  
 RT governor model

**CRATERING EXPLOSIONS**

*1996-07-23*  
 UF cabriolet event  
 UF danny boy event  
 UF palanquin event  
 UF schooner event  
 BT1 explosions  
 NT1 sedan event  
 RT chemical explosions  
 RT craters  
 RT mining  
 RT nuclear excavation  
 RT nuclear explosions  
 RT plowshare project  
 RT surface explosions  
 RT surface mining  
 RT underground explosions  
 RT underground mining

**CRATERS**

BT1 cavities  
 RT cratering explosions  
 RT excavation  
 RT openings  
 RT surface explosions  
 RT underground explosions

**CRAY COMPUTERS**

*INIS: 1980-04-02; ETDE: 1977-07-23*  
 BT1 computers  
 RT supercomputers

**crbr reactor**

*INIS: 1977-04-07; ETDE: 2002-06-13*  
 USE clinch river breeder reactor

**cre**

USE cumulative radiation effects

**CREATINE**

\*BT1 amino acids  
 RT creatinine  
 RT guanidines  
 RT phosphocreatine

**CREATININE**

\*BT1 imidazoles  
 \*BT1 imines  
 RT creatine

**CREATION OPERATORS**

\*BT1 quantum operators  
 RT second quantization  
 RT vacuum states

**credit accounts**

*INIS: 2000-04-12; ETDE: 1983-05-21*  
 (Prior to March 1996 this was a valid ETDE  
 descriptor.)  
 SEE financing

**credit cards**

*INIS: 2000-04-12; ETDE: 1979-11-23*  
 (Prior to February 1995, this was a valid  
 ETDE descriptor.)  
 SEE financing

**credits**

*INIS: 2000-04-12; ETDE: 1979-12-10*  
 SEE financial data

**creeks**

USE streams

**CREEP**

BT1 mechanical properties  
 RT plasticity  
 RT ratcheting  
 RT stress relaxation

**CREOSOTE**

*INIS: 1991-10-08; ETDE: 1980-01-24*  
 A yellowish oily liquid containing a mixture of  
 phenolic compounds obtained by distillation  
 of coal or wood tars.  
 RT coal tar  
 RT cresols  
 RT preservatives  
 RT wood

**CREPIS**

\*BT1 magnoliopsida

**cresap process**

*INIS: 2000-04-12; ETDE: 1979-11-07*  
 SEE coal liquefaction

**CRESOLS**

UF cresylic acid  
 UF hydroxytoluenes  
 UF methyl phenols  
 \*BT1 phenols  
 RT creosote

**cresylic acid**

USE cresols

**CRETACEOUS PERIOD**

*INIS: 1992-04-14; ETDE: 1977-10-19*  
 \*BT1 mesozoic era

**CREVICE CORROSION**

*1980-11-07*  
 \*BT1 corrosion

**creys-malville reactor**

*INIS: 1977-03-01; ETDE: 2002-06-13*  
 USE super phenix reactor

**CRG PROCESSES**

*INIS: 2000-04-12; ETDE: 1976-03-22*  
 UF british gas corporation process  
 UF catalytic rich gas process  
 RT high btu gas  
 RT synthetic fuels

**cricetus**

USE hamsters

**CRIME**

*INIS: 1993-02-18; ETDE: 1983-05-21*  
 NT1 fraud  
 NT1 theft  
 RT crime detection  
 RT criminology

**CRIME DETECTION**

UF forensic science  
 BT1 detection  
 RT activation analysis  
 RT chemical analysis  
 RT crime  
 RT criminology  
 RT tracer techniques

**CRIMEA**

*INIS: 2000-04-12; ETDE: 1978-07-05*  
 \*BT1 ukraine

**CRIMINOLOGY**

*INIS: 2000-04-12; ETDE: 1976-11-17*  
 RT crime  
 RT crime detection

**CRISTOBALITE**

*A mineral like quartz present in many siliceous volcanic rocks.*

- \*BT1 oxide minerals
- \*BT1 silicate minerals
- RT quartz
- RT silicon oxides

**critical assemblies**

- USE zero power reactors

**CRITICAL CURRENT**

- \*BT1 electric currents
- RT superconductivity

**critical experiments facility oak ridge**

1993-11-05

- USE or-cef reactor

**CRITICAL FIELD**

- BT1 magnetic fields
- RT superconductivity

**CRITICAL FLOW**

*Fluid flow at a critical velocity, e.g. flow at the point at which it changes from laminar to turbulent.*

- BT1 fluid flow
- RT critical velocity
- RT laminar flow
- RT turbulent flow

**CRITICAL FREQUENCY**

1982-10-29

*The frequency below which radiation emitted at any angle from an antenna on the earth is reflected back.*

- RT ionosphere
- RT radiowave radiation

**critical group (icrp)**

INIS: 1984-04-04; ETDE: 1984-05-10

*Out of a general population, the group of persons most highly exposed to radiation by virtue of their occupations, diets, habits, etc.*

- USE icrp critical group

**critical heat flow**

- USE departure nucleate boiling

**CRITICAL HEAT FLUX**

- BT1 heat flux
- RT heat transfer

**CRITICAL MASS**

- BT1 mass
- RT criticality
- RT reflector savings

**critical mass laboratory pnl**

- USE cml reactor

**CRITICAL ORGANS**

- \*BT1 organs
- RT annual limit of intake
- RT internal irradiation
- RT nonuniform irradiation
- RT radiation doses
- RT radionuclide kinetics
- RT retention

**critical path method**

- USE pert method

**CRITICAL PRESSURE**

- UF pressure (critical)
- \*BT1 thermodynamic properties
- RT supercritical state

**CRITICAL SIZE**

- BT1 size
- RT criticality
- RT reflector savings

**CRITICAL TEMPERATURE**

*For superconducting transition use*

*TRANSITION TEMPERATURE.*

- \*BT1 transition temperature
- RT heat treatments
- RT phase diagrams
- RT phase transformations
- RT supercritical state

**CRITICAL VELOCITY**

- BT1 velocity
- RT critical flow

**CRITICALITY**

- UF criticality accidents
- UF subcriticality
- RT buckling
- RT chain reactions
- RT critical mass
- RT critical size
- RT fission
- RT multiplication factors
- RT natural nuclear reactors
- RT oklo phenomenon
- RT reactor kinetics
- RT reactor safety
- RT reactors
- RT reflector savings
- RT response matrix method

**criticality accidents**

- USE criticality
- USE radiation accidents

**CRNL MP TANDEM ACCELERATOR**

INIS: 1976-06-23; ETDE: 1976-08-24

- UF mp tandem accelerator
- \*BT1 tandem electrostatic accelerators
- \*BT1 van de graaff accelerators

**CRNL SUPERCONDUCTING CYCLOTRON**

INIS: 1982-09-21; ETDE: 1982-10-20

- UF chalk river cyclotron
- UF chalk river superconducting cyclotron
- \*BT1 heavy ion accelerators
- \*BT1 isochronous cyclotrons

**CROATIA**

1993-01-14

- SF yugoslavia
- \*BT1 eastern europe
- RT alps

**CROATIAN ORGANIZATIONS**

2004-03-31

- BT1 national organizations

**crocar**

2000-04-12

- USE chromium steels

**CROCUS REACTOR**

*Atomic Engineering Lab. of the Lausanne Federal Polytechnic School, Lausanne, Switzerland.*

- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 zero power reactors

**CROLOY**

1996-07-23

*For unspecified Croloy alloys.*

- \*BT1 steels
- NT1 steel-cr13
- NT2 stainless steel-410
- NT1 steel-cr16
- NT2 stainless steel-430
- NT1 steel-cr18ni10
- NT2 stainless steel-18-10
- NT1 steel-cr2mo

NT2 steel-astm-a542

NT1 steel-cr5mo

**croloy 12**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr13

**croloy 18**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr16

**croloy 2**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr2mo

**croloy 299**

INIS: 1996-07-23; ETDE: 1997-03-17

USE stainless steels

**croloy 3035**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr18ni10

**croloy 5**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr5mo

**cropping systems**

INIS: 1981-08-31; ETDE: 1981-09-22

USE cultivation techniques

**CROPS**

- RT agriculture
- RT biomass plantations
- RT cereals
- RT cultivation
- RT cultivation techniques
- RT food
- RT fruits
- RT ground cover
- RT harvesting
- RT hydroponic culture
- RT soil conservation
- RT sugar cane
- RT tobacco
- RT vegetables
- RT vernalization

**CROSS-LINKING**

- \*BT1 polymerization
- RT radiation curing

**cross-ridge mining**

INIS: 2000-04-12; ETDE: 1978-07-05

*Mining beginning and progressing perpendicularly to the long axis of a mountain ridge.*

*(Prior to February 1995, this was a valid ETDE descriptor.)*

- USE surface mining

**CROSS SECTIONS**

*Whenever appropriate see the more specific descriptors listed below.*

- NT1 differential cross sections
- NT2 excitation functions
- NT1 group constants
- NT1 integral cross sections
- NT1 total cross sections
- RT breit-wigner formula
- RT cinda
- RT detailed balance principle
- RT four momentum transfer
- RT giant resonance
- RT giant resonance model
- RT intermediate resonance
- RT intermediate structure
- RT mean free path
- RT multilevel analysis
- RT nuclear reactions
- RT peierls method
- RT reciprocal v law

- RT rosenbluth formula  
 RT shadow effect  
 RT transfer matrix method

**crossed beams**

INIS: 2000-04-12; ETDE: 1978-11-14  
 USE colliding beams

**CROSSED FIELDS**

- UF fields (crossed)  
 RT electric fields  
 RT magnetic fields

**crossflow cooling towers**

1985-12-10  
 USE cooling towers  
 USE crossflow systems

**CROSSFLOW SYSTEMS**

1985-12-10  
 UF crossflow cooling towers  
 RT cooling towers  
 RT evaporators  
 RT hydrodynamics  
 RT vapor condensers

**CROSSING-OVER**

- RT chromosomes  
 RT gene recombination  
 RT gene recombination proteins  
 RT meiosis  
 RT mitosis  
 RT recombinant dna

**CROSSING SYMMETRY**

- BT1 symmetry  
 RT scattering amplitudes

**CROSSROADS PROJECT**

1999-05-19  
 UF project crossroads  
 \*BT1 nuclear explosions  
 RT atmospheric explosions  
 RT underwater explosions

**CROSSTIE OPERATION**

INIS: 2000-04-12; ETDE: 1979-11-23  
 \*BT1 nuclear explosions  
 \*BT1 underground explosions  
 NT1 gasbuggy event  
 RT contained explosions

**croton oil**

1996-10-22  
 (Until October 1996 this was a valid descriptor.)  
 USE triglycerides  
 USE vegetable oils

**CROTONIC ACID**

- \*BT1 monocarboxylic acids

**CROWDIONS**

- \*BT1 line defects  
 RT interstitials

**crowfoot**

USE ranunculaceae

**CROWN ETHERS**

INIS: 1992-01-28; ETDE: 1992-02-14  
 \*BT1 ethers  
 RT chelating agents  
 RT complexes  
 RT ligands  
 RT solvent extraction

**CRUAS-2 REACTOR**

INIS: 1989-11-24; ETDE: 1989-12-08  
 Cruas, France.  
 \*BT1 pwr type reactors

**CRUAS-3 REACTOR**

INIS: 1989-11-24; ETDE: 1989-12-08  
 Cruas, France.  
 \*BT1 pwr type reactors

**CRUAS-4 REACTOR**

1992-09-07  
 Cruas, France.  
 \*BT1 pwr type reactors

**CRUCIBLES**

- RT casting  
 RT furnaces  
 RT melting

**crude carriers**

INIS: 2000-04-12; ETDE: 1976-08-04  
 USE tanker ships

**crude oil**

USE petroleum

**CRUISE MISSILES**

INIS: 2000-04-12; ETDE: 1979-05-02  
 BT1 missiles

**CRUSHING**

(Prior to February 1992, this descriptor was used to index the concept of pulverizing, which is now indexed by COMMINUTION.)  
 BT1 comminution  
 RT coal preparation  
 RT fragmentation  
 RT ore processing  
 RT pulverizers

**CRUSTACEANS**

- BT1 aquatic organisms  
 \*BT1 arthropods  
 NT1 branchiopods  
 NT2 artemia  
 NT2 daphnia  
 NT1 copepods  
 NT1 decapods  
 NT2 crabs  
 NT2 lobsters  
 NT2 prawns  
 NT2 shrimp  
 RT zooplankton

**CRYOBIOLOGY**

INIS: 2000-04-12; ETDE: 1981-04-17  
 BT1 biology  
 RT cryogenics  
 RT freezing  
 RT thawing

**cryocables**

1985-12-10  
 USE cryogenic cables

**CRYOGENIC BUBBLE CHAMBERS**

\*BT1 bubble chambers

**CRYOGENIC CABLES**

1985-12-10  
 (Prior to 1986 SUPERCONDUCTING CABLES was used for this concept.)  
 UF cryocables  
 \*BT1 electric cables  
 RT superconducting cables

**CRYOGENIC FLUIDS**

INIS: 1976-03-25; ETDE: 1975-10-28  
 UF cryogens  
 BT1 fluids  
 RT cryogenics  
 RT helium  
 RT hydrogen  
 RT liquefied gases  
 RT methane  
 RT nitrogen

- RT oxygen  
 RT refrigerants

**CRYOGENIC STORAGE DEVICES**

BT1 memory devices

**CRYOGENICS**

- RT adiabatic demagnetization  
 RT cryobiology  
 RT cryogenic fluids  
 RT cryopumps  
 RT cryostats  
 RT cryotrons  
 RT dewars  
 RT freons  
 RT helium dilution refrigeration  
 RT hydrogen storage  
 RT magnetic refrigerators  
 RT superconductivity  
 RT superfluidity  
 RT temperature range 0000-0013 k  
 RT temperature range 0013-0065 k  
 RT temperature range 0065-0273 k  
 RT temperature zero k

**cryogens**

INIS: 1976-03-25; ETDE: 1975-10-28  
 USE cryogenic fluids

**CRYOPUMPS**

- \*BT1 vacuum pumps  
 RT cryogenics

**CRYOSCOPY**

Measurement of freezing-point depression produced in a solvent by a solute to determine molecular weight of the solute or properties of solutions.  
 UF freezing point depression  
 RT molecular weight

**CRYOSPHERE**

INIS: 2000-04-12; ETDE: 1993-05-28  
 The portion of the climate system consisting of the world's ice masses and snow deposits, which include the continental ice sheets, mountain glaciers, sea ice, surface snow cover, and lake and river ice.  
 NT1 polar regions  
 NT2 antarctic regions  
 NT3 antarctica  
 NT2 arctic regions  
 RT boreal regions  
 RT glaciers  
 RT hydrosphere  
 RT ice  
 RT ice caps  
 RT icebergs  
 RT snow

**CRYOSTATS**

- \*BT1 thermostats  
 RT cryogenics  
 RT equipment protection devices  
 RT helium dilution refrigerators  
 RT magnetic refrigerators  
 RT refrigerators

**CRYOTRONS**

Switching devices based on the magnetic control of superconductivity.  
 BT1 superconducting devices  
 \*BT1 switches  
 RT cryogenics

**CRYPT CELLS**

- \*BT1 somatic cells  
 RT epithelium  
 RT intestines

**CRYPTOGRAPHY**

*INIS: 2000-04-12; ETDE: 1984-07-20*

*The enciphering and deciphering of messages in secret code.*

(Prior to April 1997 this was a valid ETDE descriptor; it is re-introduced into the Joint Thesaurus in October 2005.)

- NT1 quantum cryptography
- RT communications
- RT data transmission
- RT information
- RT secrecy protection
- RT security

**CRYSTAL COUNTERS**

- UF diamond counters
- \*BT1 radiation detectors
- NT1 filament crystal counters
- RT bulk semiconductor detectors

**CRYSTAL DEFECTS**

*1996-01-24*

- UF lattice defects
- BT1 crystal structure
- NT1 line defects
  - NT2 crowdions
  - NT2 dislocations
    - NT3 edge dislocations
    - NT3 screw dislocations
- NT1 point defects
  - NT2 interstitials
    - NT3 i centers
  - NT2 vacancies
    - NT3 color centers
      - NT4 a centers
      - NT4 e centers
      - NT4 f centers
      - NT4 h centers
      - NT4 i centers
      - NT4 m centers
      - NT4 r centers
      - NT4 s centers
      - NT4 u centers
      - NT4 v centers
      - NT4 x centers
      - NT4 z centers
  - NT3 frenkel defects
  - NT3 schottky defects
- NT1 stacking faults
- RT cavities
- RT crystal lattices
- RT inclusions
- RT internal friction
- RT microstructure
- RT radiation effects
- RT thermal spikes

**CRYSTAL DOPING**

- UF doping (crystal)
- RT bromine additions
- RT chlorine additions
- RT doped materials
- RT fluorine additions
- RT ion implantation
- RT trace amounts

**crystal faces**

*INIS: 1995-12-11; ETDE: 1979-06-06*

- USE crystals
- USE surfaces

**CRYSTAL FIELD**

- RT crystal structure
- RT electronic structure

**CRYSTAL GROWTH**

*1996-04-15*

- UF growth (crystal)
- RT bridgman method
- RT cast method
- RT cleavage

- RT crystal growth methods
- RT crystallization
- RT crystals
- RT czochralski method
- RT dendritic web growth method
- RT efg method
- RT epitaxy
- RT grain growth
- RT heat exchanger method
- RT inverted stepanov method
- RT liquid phase epitaxy
- RT molecular beam epitaxy
- RT nucleation
- RT ribbon-to-ribbon method
- RT stockbarger method
- RT vapor phase epitaxy
- RT verneuil method
- RT zone melting

**CRYSTAL GROWTH METHODS**

*INIS: 1996-04-15; ETDE: 1980-02-11*

- UF lass growth method
- UF low-angle silicon-sheet growth method
- NT1 bridgman method
- NT1 cast method
- NT1 czochralski method
- NT1 dendritic web growth method
- NT1 efg method
- NT1 epitaxy
  - NT2 liquid phase epitaxy
  - NT2 molecular beam epitaxy
  - NT2 vapor phase epitaxy
- NT1 heat exchanger method
- NT1 inverted stepanov method
- NT1 ribbon-to-ribbon method
- NT1 ribbon-to-sheet method
- NT1 stockbarger method
- NT1 verneuil method
- NT1 zone melting
- RT crystal growth

**CRYSTAL LATTICES**

- UF lattices (crystal)
- UF space lattices
- BT1 crystal structure
- NT1 beta-w lattices
- NT1 cubic lattices
  - NT2 bcc lattices
  - NT2 fcc lattices
- NT1 hexagonal lattices
  - NT2 hcp lattices
- NT1 monoclinic lattices
- NT1 orthorhombic lattices
- NT1 pentagonal lattices
- NT1 tetragonal lattices
- NT1 triclinic lattices
- NT1 trigonal lattices
- RT coordination valences
- RT crystal defects
- RT crystallography
- RT crystals
- RT diffraction methods
- RT electron channeling
- RT electron-phonon coupling
- RT habit planes
- RT ion channeling
- RT lattice parameters
- RT laue method
- RT laves phases
- RT microstructure
- RT miller indices
- RT muon spin relaxation
- RT space groups
- RT trapping
- RT vegard law

**CRYSTAL MODELS**

*For theories only.*

- UF models (crystal)

- BT1 mathematical models
- NT1 heisenberg model
- NT1 hubbard model
- NT1 ising model
- RT crystal structure
- RT replicas

**CRYSTAL-PHASE****TRANSFORMATIONS**

- UF crystal phase transitions
- BT1 phase transformations
- RT crystal structure
- RT graphitization
- RT order-disorder transformations

**crystal phase transitions**

*INIS: 1984-04-04; ETDE: 1984-05-10*

- USE crystal-phase transformations

**crystal river**

*INIS: 2000-04-12; ETDE: 1975-11-28*

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE colorado
- USE rivers

**CRYSTAL RIVER-3 REACTOR**

*Florida Power Co., Red Level, Florida, USA.*

- UF red level-3 reactor
- \*BT1 pwr type reactors

**CRYSTAL RIVER-4 REACTOR**

*Florida Power Co., Red Level, Florida, USA.*

*Canceled in 1972 before construction began.*

- UF red level-4 reactor
- \*BT1 pwr type reactors

**CRYSTAL STRUCTURE**

- UF structure (crystal)
- NT1 crystal defects
  - NT2 line defects
    - NT3 crowdions
    - NT3 dislocations
      - NT4 edge dislocations
      - NT4 screw dislocations
  - NT2 point defects
    - NT3 interstitials
      - NT4 i centers
    - NT3 vacancies
      - NT4 color centers
        - NT5 a centers
        - NT5 e centers
        - NT5 f centers
        - NT5 h centers
        - NT5 i centers
        - NT5 m centers
        - NT5 r centers
        - NT5 s centers
        - NT5 u centers
        - NT5 v centers
        - NT5 x centers
        - NT5 z centers
    - NT4 frenkel defects
    - NT4 schottky defects
  - NT2 stacking faults
- NT1 crystal lattices
  - NT2 beta-w lattices
    - NT2 cubic lattices
      - NT3 bcc lattices
      - NT3 fcc lattices
    - NT2 hexagonal lattices
      - NT3 hcp lattices
    - NT2 monoclinic lattices
    - NT2 orthorhombic lattices
    - NT2 pentagonal lattices
    - NT2 tetragonal lattices
    - NT2 triclinic lattices
    - NT2 trigonal lattices
  - RT allotropy
  - RT axial ratio
  - RT configuration

RT crystal field  
 RT crystal models  
 RT crystal-phase transformations  
 RT crystallography  
 RT guinier-preston zones  
 RT kikuchi lines  
 RT lattice vibrations  
 RT metamict state  
 RT morphology  
 RT optical activity  
 RT order parameters  
 RT peierls-nabarro force  
 RT physical metallurgy  
 RT solid state physics  
 RT structure factors  
 RT texture  
 RT twinning

**crystal violet**

INIS: 2000-04-12; ETDE: 1979-07-18

USE methyl violet

**CRYSTALLINE LENS**

UF lens (crystalline)

\*BT1 eyes

RT cataracts

**crystalline rocks**

INIS: 2000-04-12; ETDE: 1983-02-09

General term for igneous and metamorphic rocks as opposed to sedimentary rocks.

USE igneous rocks

USE metamorphic rocks

**CRYSTALLIZATION**

BT1 phase transformations  
 RT agglomeration  
 RT amorphous state  
 RT cleavage  
 RT crystal growth  
 RT crystals  
 RT epitaxy  
 RT frost  
 RT mineralization  
 RT nucleation  
 RT precipitation  
 RT purification  
 RT recrystallization  
 RT separation processes  
 RT solidification  
 RT solubility  
 RT zone refining

**CRYSTALLOGRAPHY**

UF radiocrystallography  
 RT atomic beam diffraction  
 RT crystal lattices  
 RT crystal structure  
 RT crystals  
 RT diffraction methods  
 RT electron diffraction  
 RT gamma diffractometers  
 RT neutron diffraction  
 RT neutron diffractometers  
 RT patterson method  
 RT x-ray diffraction  
 RT x-ray diffractometers

**CRYSTALS**

1996-01-24

(From June 1979 till February 1997

CRYSTAL FACES was a valid ETDE

descriptor; from February 1975 till March

1997 QUANTUM CRYSTALS was a valid

ETDE descriptor; from February 1975 till

February 1995 RIEHL-SCHON MODEL was

a valid ETDE descriptor.)

UF crystal faces

UF quantum crystals

UF riehl-schon model

NT1 anharmonic crystals

NT1 dendrites  
 NT1 ionic crystals  
 NT1 liquid crystals  
 NT1 molecular crystals  
 NT1 monocrystals  
 NT2 whiskers  
 NT1 polycrystals  
 NT2 bicrystals  
 RT clathrates  
 RT crystal growth  
 RT crystal lattices  
 RT crystallization  
 RT crystallography  
 RT ion implantation  
 RT solids  
 RT umklapp processes

**CS-R PROCESS**

INIS: 2000-04-12; ETDE: 1981-08-04

Hydrogasification process, developed by Cities Service and Rockwell International, in which entrained coal particles are hydrogenated using hot hydrogen.

UF rockwell flash hydroliquefaction process

\*BT1 coal gasification

RT high btu gas

RT hydrogenation

**cs-sr process**

INIS: 2000-04-12; ETDE: 1978-10-23

Cities Service process for non-catalytic vapor-phase hydrogenation of carbonaceous feedstocks.

(Prior to July 1993, this was a valid ETDE descriptor.)

SEE coal gasification

SEE coal liquefaction

**CSCND**

2000-10-18

Convention on Supplementary Compensation for Nuclear Damage.

UF convention on supplementary compensation for nuclear damage

UF nuclear damage, conv. on supplementary compensation for international agreements

\*BT1 international agreements

RT iaea

RT nuclear liability

**csf process**

2000-04-12

Consolidation Coal Company process for the direct conversion of coal to synthetic crude oil by hydrogenation after solvent extraction (extension and improvement over pott-broche process).

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal liquefaction

**csiro process**

INIS: 2000-04-12; ETDE: 1975-11-28

Commonwealth Scientific and Industrial Research Organization process for fluidized-bed hydrocarbonization of non-caking brown coal to produce methane, liquor, tar, and residual char.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**CSREX PROCESS**

\*BT1 reprocessing

RT solvent extraction

**CT-6B TOKAMAK**

INIS: 1989-12-07; ETDE: 1990-01-03

Academia Sinica, Beijing, China.

\*BT1 tokamak devices

**CT-GUIDED RADIOTHERAPY**

2007-11-22

Computerized tomography image-guided radiotherapy

UF tomotherapy

\*BT1 radiotherapy

RT computerized tomography

**ct scanning**

INIS: 1978-01-16; ETDE: 1978-03-03

USE cat scanning

**CTBT**

INIS: 1998-06-10; ETDE: 1998-10-19

Comprehensive Nuclear-Test-Ban Treaty.

BT1 treaties

RT arms control

RT ctbto

RT non-proliferation policy

RT nuclear disarmament

RT nuclear explosion detection

RT nuclear explosions

RT nuclear freeze

RT nuclear weapons

RT safeguards

**CTBTO**

INIS: 1998-06-10; ETDE: 1998-10-19

Comprehensive Nuclear-Test-Ban Treaty Organization.

BT1 international organizations

RT arms control

RT austria

RT ctbt

RT non-proliferation policy

RT nuclear disarmament

RT nuclear explosions

RT nuclear freeze

RT nuclear weapons

RT safeguards

RT united nations

**CTX SPHEROMAK**

INIS: 1984-11-30; ETDE: 1984-05-08

A LASL facility to investigate the production, equilibrium, stability and confinement properties of compact toroids of the spheromak type in the absence of externally supported toroidal fields.

\*BT1 spheromak devices

**CUBA**

BT1 developing countries

\*BT1 greater antilles

BT1 latin america

**CUBAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**CUBIC LATTICES**

UF perovskite crystal structure

\*BT1 crystal lattices

NT1 bcc lattices

NT1 fcc lattices

**CUCUMBERS**

\*BT1 magnoliopsida

\*BT1 vegetables

**cucurbita foetidissima**

INIS: 2000-04-12; ETDE: 1980-11-25

USE buffalo gourd

**CUEX**

INIS: 1975-11-07; ETDE: 1975-12-16

UF cumulative exposure index

RT human populations

RT icrp

RT integral doses

**CULHAM LABORATORY**

INIS: 1983-02-04; ETDE: 1983-03-07

\*BT1 ukaea

**CULM**

INIS: 2000-04-12; ETDE: 1979-09-27

Coal dust or slack; formations of shale or sandstone containing beds of impure anthracite.

\*BT1 mineral wastes

RT anthracite

RT coal

RT surface mining

**CULTIVATION**

INIS: 1999-03-02; ETDE: 1977-12-22

RT agriculture

RT crops

RT cultivation techniques

**CULTIVATION TECHNIQUES**

UF cropping systems

UF plant cultivation

NT1 hydroponic culture

NT1 short rotation cultivation

RT agriculture

RT crops

RT cultivation

RT drought resistance

RT irrigation

**CULTURAL OBJECTS**

INIS: 1981-12-23; ETDE: 1982-02-09

Objects of historical and/or artistic value.

UF art objects

UF museum objects

UF paintings

RT age estimation

RT archaeological sites

RT archaeological specimens

RT historical aspects

RT preservation

**CULTURAL RESOURCES**

INIS: 1999-05-20; ETDE: 1978-12-11

Archaeological and historical sites.

BT1 resources

RT archaeological specimens

RT architecture

**culture (safety)**

2003-01-17

USE safety culture

**CULTURE MEDIA**

1997-06-19

RT batch culture

RT cell cultures

RT continuous culture

RT in vitro

RT nutrients

RT semibatch culture

RT single cell protein

RT tissue cultures

**cultures (cells)**

USE cell cultures

**cultures (tissue)**

USE tissue cultures

**CUMBERLAND RIVER**

1997-06-19

\*BT1 rivers

RT kentucky

RT tennessee

**CUMENE**

UF isopropylbenzene

\*BT1 aromatics

\*BT1 hydrocarbons

**cumulative effect**

INIS: 1984-04-04; ETDE: 1984-05-10

Production of particles in the region of limiting fragmentation of nuclei outside the limits allowed by one-nucleon collision kinematics.

USE limiting fragmentation

USE particle production

**cumulative exposure index**

INIS: 1975-11-07; ETDE: 1975-12-22

USE cuex

**cumulative liability**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

USE liabilities

**CUMULATIVE RADIATION****EFFECTS**

UF cre

BT1 radiation effects

RT fractionated irradiation

RT radiation doses

RT radiotherapy

RT temporal dose distributions

**CUNICO**

2000-04-12

\*BT1 cobalt alloys

\*BT1 copper alloys

\*BT1 nickel alloys

**CUPFERRON**

UF phenylhydroxylamine

\*BT1 amines

\*BT1 hydroxy compounds

BT1 reagents

**CUPRATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 copper compounds

BT1 oxygen compounds

RT copper oxides

**cuproslodowskite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE silicate minerals

USE uranium minerals

**CURCUMIN**

BT1 dyes

\*BT1 ethers

\*BT1 ketones

\*BT1 polyphenols

**curie law**

USE curie-weiss law

**CURIE POINT**

UF curie temperature

\*BT1 transition temperature

RT ferromagnetism

RT magnetic susceptibility

**curie temperature**

USE curie point

**CURIE-WEISS LAW**

UF curie law

RT magnetic susceptibility

**CURING**

INIS: 1982-10-29; ETDE: 1978-03-03

NT1 radiation curing

RT drying

RT heat treatments

RT polymerization

RT vulcanization

**curite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE oxide minerals

USE uranium minerals

**CURIUM**

\*BT1 actinides

\*BT1 transplutonium elements

**CURIUM 232**

INIS: 1997-02-07; ETDE: 1979-11-23

\*BT1 actinide nuclei

\*BT1 beta-plus decay radioisotopes

\*BT1 curium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

**CURIUM 233**

2007-01-24

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 curium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

**CURIUM 234**

2007-01-24

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 curium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

**CURIUM 235**

2007-01-24

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 curium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

**CURIUM 236**

INIS: 1986-03-04; ETDE: 1986-04-11

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 curium isotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

**CURIUM 237**

2003-09-03

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 curium isotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

**CURIUM 238**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 curium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hours living radioisotopes

**CURIUM 239**

\*BT1 actinide nuclei

\*BT1 curium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hours living radioisotopes

**CURIUM 240**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes



- \*BT1 curium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes

**CURIUM 241**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**CURIUM 242**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes

**CURIUM 242 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CURIUM 243**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 243 TARGET**

INIS: 1976-10-29; ETDE: 1976-11-29

- BT1 targets

**CURIUM 244**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 244 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CURIUM 245**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 245 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CURIUM 246**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 246 TARGET**

INIS: 1976-10-29; ETDE: 1976-09-29

- BT1 targets

**CURIUM 247**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 years living radioisotopes

**CURIUM 247 TARGET**

INIS: 1978-07-03; ETDE: 1978-03-08

- BT1 targets

**CURIUM 248**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 248 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CURIUM 249**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes

**CURIUM 249 TARGET**

INIS: 1992-09-22; ETDE: 1984-09-05

- BT1 targets

**CURIUM 250**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 250 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CURIUM 251**

INIS: 1978-02-23; ETDE: 1977-05-07

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes

**CURIUM 252**

- \*BT1 actinide nuclei
- \*BT1 curium isotopes
- \*BT1 even-even nuclei

**CURIUM ADDITIONS**

*Alloys containing not more than 1% Cm are listed here.*

- \*BT1 curium alloys

**CURIUM ALLOYS**

1996-07-18

*Alloys containing more than 1% Cm.*

UF curium base alloys

- \*BT1 actinide alloys

NT1 curium additions

**CURIUM ARSENIDES**

1996-07-18

(From July 1996 to February 2008 CURIUM COMPOUNDS + ARSENIDES was used for this concept.)

- \*BT1 arsenides
- \*BT1 curium compounds

**curium base alloys**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE curium alloys

**CURIUM BROMIDES**

1996-07-18

(From July 1996 to September 2007 CURIUM COMPOUNDS + BROMIDES was used for this concept.)

- \*BT1 bromides
- \*BT1 curium compounds

**CURIUM CARBONATES**

1996-07-18

(From July 1996 to November 2007 CURIUM COMPOUNDS + CARBONATES was used for this concept.)

- \*BT1 carbonates
- \*BT1 curium compounds

**CURIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 curium compounds

**CURIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**CURIUM COMPOUNDS**

1996-11-13

- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 curium arsenides
- NT1 curium bromides
- NT1 curium carbonates
- NT1 curium chlorides
- NT1 curium fluorides
- NT1 curium hydrides
- NT1 curium hydroxides
- NT1 curium iodides
- NT1 curium nitrates
- NT1 curium nitrides
- NT1 curium oxides
- NT1 curium phosphides
- NT1 curium selenides
- NT1 curium silicates
- NT1 curium sulfides
- NT1 curium tellurides

**CURIUM FLUORIDES**

- \*BT1 curium compounds
- \*BT1 fluorides

**CURIUM HYDRIDES**

1997-01-28

(From November 1996 to November 2007 CURIUM COMPOUNDS + HYDRIDES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 hydrides

**CURIUM HYDROXIDES**

1997-01-28

(From November 1996 to November 2007 CURIUM COMPOUNDS + HYDROXIDES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 hydroxides

**CURIUM IODIDES**

INIS: 1987-08-27; ETDE: 1987-03-24

- \*BT1 curium compounds
- \*BT1 iodides

**CURIUM IONS**

- \*BT1 ions

**CURIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 curium 232
- NT1 curium 233
- NT1 curium 234
- NT1 curium 235
- NT1 curium 236
- NT1 curium 237

NT1 curium 238  
 NT1 curium 239  
 NT1 curium 240  
 NT1 curium 241  
 NT1 curium 242  
 NT1 curium 243  
 NT1 curium 244  
 NT1 curium 245  
 NT1 curium 246  
 NT1 curium 247  
 NT1 curium 248  
 NT1 curium 249  
 NT1 curium 250  
 NT1 curium 251  
 NT1 curium 252

**CURIUM NITRATES**

\*BT1 curium compounds  
 \*BT1 nitrates

**CURIUM NITRIDES**

1997-01-28

(From November 1996 to November 2007

CURIUM COMPOUNDS + NITRIDES was used for this concept.)

\*BT1 curium compounds  
 \*BT1 nitrides

**CURIUM OXIDES**

\*BT1 curium compounds  
 \*BT1 oxides

**CURIUM PHOSPHIDES**

1996-07-18

(From July 1996 to November 2007 CURIUM COMPOUNDS + PHOSPHIDES was used for this concept.)

\*BT1 curium compounds  
 \*BT1 phosphides

**CURIUM SELENIDES**

INIS: 2000-04-12; ETDE: 1975-10-28

(From March 1997 to November 2007

CURIUM COMPOUNDS + SELENIDES was used for this concept.)

\*BT1 curium compounds  
 \*BT1 selenides

**CURIUM SILICATES**

INIS: 1997-01-28; ETDE: 1984-09-05

(From November 1996 to November 2007

CURIUM COMPOUNDS + SILICATES was used for this concept.)

\*BT1 curium compounds  
 \*BT1 silicates

**CURIUM SULFIDES**

1996-07-18

(From July 1996 to November 2007 CURIUM COMPOUNDS + SULFIDES was used for this concept.)

\*BT1 curium compounds  
 \*BT1 sulfides

**CURIUM TELLURIDES**

INIS: 2000-04-12; ETDE: 1976-11-01

(From March 1997 to February 2008

CURIUM COMPOUNDS + TELLURIDES was used for this concept.)

\*BT1 curium compounds  
 \*BT1 tellurides

**current (alternating)**

USE alternating current

**current (direct)**

USE direct current

**current (leakage)**

USE leakage current

**CURRENT ALGEBRA**

RT algebraic currents

RT cabibbo angle  
 RT commutation relations  
 RT commutators  
 RT current commutators  
 RT current divergences  
 RT cvc theory  
 RT field algebra  
 RT low-energy theorem  
 RT pcac theory  
 RT pcvc theory  
 RT quantum field theory  
 RT symmetry groups  
 RT v-a theory

**CURRENT COMMUTATORS**

*For operators in current algebra; in electric circuitry use SWITCHES.*

\*BT1 commutators  
 NT1 sigma terms  
 RT algebraic currents  
 RT current algebra  
 RT schwinger terms

**CURRENT DENSITY**

UF density (current)  
 RT beam currents  
 RT carrier density  
 RT electric currents  
 RT electron density

**CURRENT DIVERGENCES**

RT algebraic currents  
 RT current algebra

**CURRENT-DRIVE HEATING**

INIS: 1983-03-16; ETDE: 1982-10-05

*Techniques for inducing steady-state currents in tokamaks, hence, overcoming the problems associated with pulsed operation. Heating mechanisms which can lend themselves efficiently to continuous current generation include neutral be ams, alfvén waves, ion-cyclotron waves, lower-hybrid waves, and electron cyclotron waves.*

\*BT1 joule heating  
 RT non-inductive current drive

**CURRENT LIMITERS**

INIS: 1978-08-30; ETDE: 1977-03-08

*Devices that restrict the flow of current to a certain amount, regardless of the applied voltage.*

UF demand limiters  
 \*BT1 electrical equipment  
 RT circuit breakers  
 RT electric currents  
 RT power transmission lines  
 RT threshold current

**current limiting fuses**

INIS: 2000-04-12; ETDE: 1981-10-24

(Prior to April 1997 THRESHOLD CURRENT was used for this concept in ETDE.)

USE electric fuses

**CURRENT-TO-FREQUENCY CONVERTERS**

2000-04-12

\*BT1 pulse converters

**current-voltage curves**

2006-01-19

USE electric conductivity

**CURRENTS**

NT1 algebraic currents  
 NT2 axial-vector currents  
 NT2 charged currents  
 NT3 weak charged currents  
 NT2 neutral currents  
 NT3 weak neutral currents

NT2 second-class currents  
 NT2 vector currents  
 NT1 beam currents  
 NT2 amp beam currents  
 NT2 kilo amp beam currents  
 NT2 mega amp beam currents  
 NT2 micro amp beam currents  
 NT2 milli amp beam currents  
 NT2 nano amp beam currents  
 NT2 pico amp beam currents  
 NT1 electric currents  
 NT2 alternating current  
 NT2 bootstrap current  
 NT2 critical current  
 NT2 direct current  
 NT2 eddy currents  
 NT2 electric arcs  
 NT2 electrojets  
 NT2 faraday current  
 NT2 leakage current  
 NT2 overcurrent  
 NT2 photocurrents  
 NT2 ring currents  
 NT2 threshold current  
 NT1 water currents  
 NT2 gulf stream  
 RT atmospheric circulation  
 RT voltametry

**currents (algebraic)**

2000-04-12

USE algebraic currents

**currents (beam)**

2000-04-12

USE beam currents

**currents (electric)**

2000-04-12

USE electric currents

**currents (neutral)**

2000-04-12

USE neutral currents

**currents (water)**

INIS: 2000-04-12; ETDE: 1979-07-18

USE water currents

**curriculum guides**

INIS: 2000-04-12; ETDE: 1977-06-21

(Prior to April 1997 this was a valid ETDE descriptor.)

USE educational tools

**curtailments**

INIS: 1985-12-10; ETDE: 1978-03-03

USE allocations

**CURTAINS**

INIS: 2000-04-12; ETDE: 1979-02-27

UF draperies  
 RT air curtains  
 RT buildings  
 RT passive solar cooling systems  
 RT passive solar heating systems  
 RT screens  
 RT shading  
 RT shutters  
 RT sun shades  
 RT thermal insulation  
 RT windows

**curve of growth (spectroscopic)**

INIS: 1993-11-05; ETDE: 2002-06-13

USE spectroscopic curve of growth

**curves**

USE diagrams

**CURVILINEAR COORDINATES**

*INIS: 1985-07-23; ETDE: 1985-08-09*

- BT1 coordinates
- NT1 magnetic flux coordinates
- RT metrics
- RT riemann space

**CUSHING SYNDROME**

- \*BT1 endocrine diseases
- RT corticosteroids
- RT pituitary gland

**cuspid**

- USE cusped geometries

**CUSPED GEOMETRIES**

- UF cusp
- UF picket fence
- \*BT1 open configurations
- RT geometry

**CUTTER LOADERS**

*INIS: 2000-04-12; ETDE: 1977-06-02*

- \*BT1 cutting machines
- \*BT1 loaders
- NT1 coal plows
- NT1 continuous miners
- NT1 heading machines
- NT1 shearer loaders
- RT coal mining

**CUTTING**

- BT1 machining
- RT cutting tools
- RT mechanical decladding

**CUTTING FLUIDS**

*INIS: 1994-07-01; ETDE: 1982-05-12*

- BT1 fluids
- RT coolants
- RT lubricants
- RT machining

**CUTTING MACHINES**

*INIS: 2000-04-12; ETDE: 1985-04-09*

- \*BT1 mining equipment
- NT1 cutter loaders
- NT2 coal plows
- NT2 continuous miners
- NT2 heading machines
- NT2 shearer loaders
- RT coal mining

**CUTTING TOOLS**

- \*BT1 tools
- RT cutting
- RT shredders

**CUTTINGS REMOVAL**

*INIS: 1993-03-23; ETDE: 1983-03-23*

- UF drill cuttings removal
- BT1 removal
- RT coring fluids
- RT drilling
- RT drilling fluids
- RT well drilling

**CVC THEORY**

- RT current algebra
- RT vector currents

**CVTR REACTOR**

*Carolinas-Virginia Nuclear Power Associates, Parr, South Carolina, USA. Decommissioned in 1967.*

- UF carolinas virginia tube reactor
- UF parr carolinas cvtr reactor
- \*BT1 enriched uranium reactors
- \*BT1 phwr type reactors
- \*BT1 pressure tube reactors
- \*BT1 thermal reactors

**CWIP**

*INIS: 2000-04-03; ETDE: 1978-11-14*

- Construction work in progress.*
- UF construction work in progress
- BT1 construction
- RT accounting
- RT afudc
- RT public utilities

**cyam process**

*INIS: 2000-04-12; ETDE: 1983-03-23*  
*Proprietary US Steel Corp. Process for recovering both free and fixed ammonia from waste water. Proprietary US Steel Corp. Process for recovering both free and fixed ammonia from waste water.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE waste processing

**CYANAMIDES**

- \*BT1 carbonic acid derivatives
- \*BT1 organic nitrogen compounds

**CYANATES**

*1995-01-11*  
*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
 \*BT1 carbonic acid derivatives  
 BT1 nitrogen compounds  
 RT cyanides  
 RT isocyanates  
 RT oxygen compounds

**CYANIDES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
 RT cyanates  
 RT cyanogen  
 RT hydrocyanic acid

**CYANINE DYES**

*INIS: 1983-06-02; ETDE: 1979-05-02*  
 BT1 dyes  
 RT aromatics  
 RT heterocyclic compounds

**cyanoacetylene**

*2000-04-12*  
 USE propiolonitrile

**CYANOBACTERIA**

*INIS: 1983-02-03; ETDE: 1983-03-07*  
 UF blue-green algae  
 BT1 microorganisms

**cyanocobalamin**

USE vitamin b-12

**cyanoferrates**

*INIS: 1975-10-23; ETDE: 2002-06-13*  
 USE ferricyanides

**CYANOGEN**

RT cyanides

**CYANURATES**

- \*BT1 organic oxygen compounds
- \*BT1 triazines

**CYBERNETICS**

- RT control
- RT information theory
- RT man-machine systems

**cycasin**

*2000-04-12*  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 USE azo compounds  
 USE carcinogens  
 USE hexoses

**CYCLASES**

*INIS: 1983-02-03; ETDE: 1983-03-07*  
 \*BT1 lyases  
 RT phosphoproteins

**cycles (thermodynamic)**

USE thermodynamic cycles

**CYCLIC ACCELERATORS**

UF linotrons  
 BT1 accelerators  
 NT1 betatrons  
 NT1 bevalac  
 NT1 cyclotrons  
 NT2 cracow u-120 cyclotron  
 NT2 isochronous cyclotrons  
 NT3 aabo cyclotron  
 NT3 alicia cyclotron  
 NT3 brookhaven cyclotron  
 NT3 cracow aic-144 cyclotron  
 NT3 crnl superconducting cyclotron  
 NT3 cyclone cyclotron  
 NT3 debrecen cyclotron  
 NT3 eindhoven cyclotron  
 NT3 ganil cyclotron  
 NT3 grenoble cyclotron  
 NT3 haizy cyclotron  
 NT3 hirfl cyclotron  
 NT3 inr cyclotron  
 NT3 iper cyclotron  
 NT3 iu cyclotron  
 NT3 jinr cyclotrons  
 NT4 jinr u-400 cyclotron  
 NT3 julic cyclotron  
 NT3 karlsruhe cyclotron  
 NT3 kazakhstan cyclotron  
 NT3 kiev cyclotron  
 NT3 kvi cyclotron  
 NT3 milan superconducting cyclotron  
 NT3 msu cyclotrons  
 NT3 munich compact cyclotron  
 NT3 munich suse cyclotron  
 NT3 nac cyclotron  
 NT3 nirs cyclotron  
 NT3 nrl cyclotron  
 NT3 ornl isochronous cyclotron  
 NT3 orsay cyclotron  
 NT3 oslo cyclotron  
 NT3 princeton cyclotron  
 NT3 renp cyclotron  
 NT3 sara cyclotron  
 NT3 sin cyclotron  
 NT3 texas a and m cyclotron  
 NT3 texas superconducting cyclotron  
 NT3 tohoku cyclotron  
 NT3 tokyo ins cyclotron  
 NT3 triumf cyclotron  
 NT3 uclrl cyclotrons  
 NT4 lbl 88-inch cyclotron  
 NT3 warsaw cyclotron  
 NT2 microtrons  
 NT3 racetrack microtrons  
 NT2 nbi cyclotron  
 NT2 separated orbit cyclotrons  
 NT2 superconducting cyclotrons  
 NT3 milan superconducting cyclotron  
 NT3 texas superconducting cyclotron  
 NT2 variable energy cyclotrons  
 NT3 calcutta cyclotron  
 NT3 chandigarh cyclotron  
 NT1 synchrocyclotrons  
 NT2 berkeley synchrocyclotron

NT2 cern synchrocyclotron  
 NT2 dubna synchrocyclotron  
 NT2 harvard synchrocyclotron  
 NT2 harwell synchrocyclotron  
 NT2 iko synchrocyclotron  
 NT2 leningrad synchrocyclotron  
 NT2 mcgill synchrocyclotron  
 NT2 orsay synchrocyclotron  
 NT2 uppsala synchrocyclotron  
 NT1 synchrotrons  
 NT2 bevatron  
 NT2 bonn synchrotron  
 NT2 brookhaven ags  
 NT2 cambridge electron accelerator  
 NT2 cern lhc  
 NT2 cern ps synchrotron  
 NT2 cern sps synchrotron  
 NT2 cornell 10-gev synchrotron  
 NT2 cosmotron  
 NT2 cosy storage ring  
 NT2 desy  
 NT2 erevan synchrotron  
 NT2 escar storage ring  
 NT2 fermilab accelerator  
 NT2 fermilab tevatron  
 NT2 fian synchrotron  
 NT2 frascati synchrotron  
 NT2 himac accelerator  
 NT2 ipns-i synchrotron  
 NT2 itep synchrotron  
 NT2 j-parc  
 NT2 jinr synchrotron  
 NT2 kek synchrotron  
 NT2 lampf ii synchrotron  
 NT2 lep storage rings  
 NT2 lusy  
 NT2 mura synchrotron  
 NT2 nimrod  
 NT2 nina  
 NT2 pakhra synchrotron  
 NT2 princeton synchrotron  
 NT2 saturne  
 NT2 saturne ii  
 NT2 serpukhov synchrotron  
 NT2 serpukhov tevatron  
 NT2 sis synchrotron  
 NT2 superconducting super collider  
 NT2 tokyo synchrotron  
 NT2 tomsk synchrotron  
 NT2 zgs  
 RT cavity resonators  
 RT rf systems  
 RT superconducting cavity resonators  
 RT waveguides

**cyclic adenosine monophosphate**

USE amp

**cyclic amides**

USE lactams

**cyclic esters**

USE lactones

**cyclic steam injection process**

INIS: 2000-04-12; ETDE: 1976-06-07

USE fluid injection processes

**CYCLIZATION**

INIS: 1985-06-10; ETDE: 1983-04-28

BT1 chemical reactions

**CYCLOALKANES**

(From February 1975 till February 1997 ADAMANTANE was a valid ETDE descriptor.)

UF adamantane

UF condensed cycloalkanes

\*BT1 alkanes

NT1 cyclohexane

NT1 decalin

**CYCLOALKENES**

1997-06-17

UF camphene

\*BT1 alkenes

NT1 cyclopentadiene

NT1 norbornadiene

NT1 quadricyclene

**CYCLOALKYNES**

INIS: 2000-04-12; ETDE: 1984-10-24

\*BT1 alkynes

**cycloheptatrienones**

USE tropones

**CYCLOHEXANE**

\*BT1 cycloalkanes

RT hexane

**CYCLOHEXANOL**

1981-12-23

\*BT1 alcohols

**CYCLOHEXANONE**

\*BT1 ketones

**CYCLOHEXIMIDE**

\*BT1 antibiotics

\*BT1 fungicides

**cyclohexylenedinitrilotetraacetic acid**

1995-02-16

USE cdta

**CYCLONE COMBUSTORS**

INIS: 2000-04-12; ETDE: 1979-09-26

BT1 combustors

**CYCLONE CYCLOTRON**

INIS: 1984-01-18; ETDE: 1983-03-24

Universite Catholique de Louvain Cyclotron.

UF louvain isochronous cyclotron

UF universite catholique louvain cyclotron

\*BT1 heavy ion accelerators

\*BT1 isochronous cyclotrons

**CYCLONE SEPARATORS**

UF hydrocyclones

BT1 concentrators

\*BT1 inertial separators

RT scrubbers

RT separation processes

**CYCLOPENTADIENE**

\*BT1 cycloalkenes

\*BT1 dienes

**cyclopentanediaminetetraacetic acid**

1996-07-18

(Prior to March 1997 CPDTA was used for this concept in ETDE.)

USE amino acids

USE chelating agents

**cyclophosphamide**

USE endoxan

**CYCLOSPORINE**

INIS: 1992-07-16; ETDE: 1992-08-24

UF cyclosporine-a

\*BT1 immunosuppressive drugs

\*BT1 peptides

RT immunosuppression

**cyclosporine-a**

INIS: 1992-07-16; ETDE: 1992-08-24

USE cyclosporine

**CYCLOTRON CENTER OF THE SLOVAK REPUBLIC**

2002-12-17

UF slovak cyclotron center

\*BT1 slovak organizations

**CYCLOTRON FREQUENCY**

UF frequency (cyclotron)

RT cyclotron harmonics

RT cyclotron instability

RT cyclotron radiation

RT gyrofrequency

**CYCLOTRON HARMONICS**

\*BT1 harmonics

RT bernstein mode

RT cyclotron frequency

**CYCLOTRON INSTABILITY**

\*BT1 plasma microinstabilities

RT cyclotron frequency

**CYCLOTRON RADIATION**

\*BT1 bremsstrahlung

RT cyclotron frequency

RT cyclotron resonance

RT icr heating

RT synchrotron radiation

**CYCLOTRON RESONANCE**

BT1 resonance

NT1 azbel-kaner resonance

NT1 electron cyclotron-resonance

NT1 ion cyclotron-resonance

RT cyclotron radiation

RT ion cyclotron resonance spectroscopy

**CYCLOTRONS**

\*BT1 cyclic accelerators

NT1 cracow u-120 cyclotron

NT1 isochronous cyclotrons

NT2 aabo cyclotron

NT2 alicie cyclotron

NT2 brookhaven cyclotron

NT2 cracow aic-144 cyclotron

NT2 crml superconducting cyclotron

NT2 cyclone cyclotron

NT2 debrecen cyclotron

NT2 eindhoven cyclotron

NT2 ganil cyclotron

NT2 grenoble cyclotron

NT2 haizy cyclotron

NT2 hirfl cyclotron

NT2 inr cyclotron

NT2 iper cyclotron

NT2 iu cyclotron

NT2 jinr cyclotrons

NT3 jinr u-400 cyclotron

NT2 julic cyclotron

NT2 karlsruhe cyclotron

NT2 kazakhstan cyclotron

NT2 kiev cyclotron

NT2 kvi cyclotron

NT2 milan superconducting cyclotron

NT2 msu cyclotrons

NT2 munich compact cyclotron

NT2 munich suse cyclotron

NT2 nac cyclotron

NT2 nirs cyclotron

NT2 nrl cyclotron

NT2 ornl isochronous cyclotron

NT2 orsay cyclotron

NT2 oslo cyclotron

NT2 princeton cyclotron

NT2 rcnp cyclotron

NT2 sara cyclotron

NT2 sin cyclotron

NT2 texas a and m cyclotron

NT2 texas superconducting cyclotron

NT2 tohoku cyclotron

NT2 tokyo ins cyclotron

**NT2** triumf cyclotron  
**NT2** uclrl cyclotrons  
**NT3** lbl 88-inch cyclotron  
**NT2** warsaw cyclotron  
**NT1** microtrons  
**NT2** racetrack microtrons  
**NT1** nbi cyclotron  
**NT1** separated orbit cyclotrons  
**NT1** superconducting cyclotrons  
**NT2** milan superconducting cyclotron  
**NT2** texas superconducting cyclotron  
**NT1** variable energy cyclotrons  
**NT2** calcutta cyclotron  
**NT2** chandigarh cyclotron  
*RT* dees  
*RT* synchrocyclotrons

**CYLINDERS**

*Objects of cylindrical shape. For containers see headings such as GAS CYLINDERS.*

*RT* cylindrical configuration  
*RT* pipes  
*RT* rods  
*RT* shape  
*RT* tubes

**cylindrical aberrations**

*INIS: 2000-04-12; ETDE: 1979-07-24*  
 USE geometrical aberrations

**CYLINDRICAL CONFIGURATION**

**BT1** configuration  
*RT* cylinders

**cylindrical parabolic collectors**

*INIS: 1992-03-11; ETDE: 1978-10-25*  
 USE parabolic trough collectors

**CYMENE**

*UF* isopropyltoluene-para  
**\*BT1** aromatics  
**\*BT1** hydrocarbons  
*RT* thymol

**CYPRUS**

**BT1** islands  
**BT1** middle east  
*RT* mediterranean sea

**cyric cyclotron**

*INIS: 1983-06-30; ETDE: 1983-03-24*  
*At Cyclotron and Radioisotope Center, Tohoku University, Sendai, Japan.*  
 USE tohoku cyclotron

**cyrtolite**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE silicate minerals  
 USE uranium minerals

**cystamin**

*INIS: 1984-05-24; ETDE: 2002-06-13*  
 USE urotropin

**CYSTAMINE**

*UF* 2,2-dithiobisethylamine  
**\*BT1** amines  
**\*BT1** organic sulfur compounds  
**\*BT1** radioprotective substances  
*RT* cysteamine

**CYSTAPHOS**

1975-11-07  
*UF* sodium aminoethylthiophosphate  
**\*BT1** amines  
**\*BT1** organic phosphorus compounds  
**\*BT1** radioprotective substances  
**\*BT1** thiophosphoric acid esters  
*RT* thioic acids

**CYSTEAMINE**

*ETDE: 2005-02-02*  
 (Prior to January 2005 MEA was used for this concept.)  
*UF* aminoethanethiol  
*UF* mea (mercaptoethylamine)  
*UF* mercamine  
*UF* mercaptoethylamine  
**\*BT1** amines  
**\*BT1** radioprotective substances  
**\*BT1** thiols  
*RT* cystamine

**CYSTEINE**

*UF* mercaptoalanine-beta  
**\*BT1** amino acids  
**\*BT1** thiols  
*RT* cystine  
*RT* homocysteine

**CYSTINE**

1996-07-18  
**\*BT1** amino acids  
**\*BT1** disulfides  
*RT* cysteine

**CYSTS**

*INIS: 1988-11-16; ETDE: 1988-12-02*  
**BT1** pathological changes

**CYTIDINE**

**\*BT1** nucleosides  
**\*BT1** pyrimidines  
*RT* cytidylic acid  
*RT* cytosine  
*RT* deoxycytidine

**CYTIDYLIC ACID**

1996-07-18  
**\*BT1** nucleotides  
*RT* cytidine  
*RT* cytosine

**CYTOCHEMISTRY**

1999-03-26  
**\*BT1** biochemistry  
*RT* cytology  
*RT* feulgen method

**CYTOCHROME OXIDASE**

**\*BT1** oxidases  
*RT* cytochromes  
*RT* mixed-function oxidases

**CYTOCHROMES**

1997-06-17  
*Electron transporting proteins that contain a heme prosthetic group.*  
**BT1** pigments  
**\*BT1** proteins  
*RT* chlorins  
*RT* coenzymes  
*RT* cytochrome oxidase  
*RT* mixed-function oxidases  
*RT* photosynthetic reaction centers  
*RT* redox process

**cytokines**

*INIS: 2000-04-12; ETDE: 1995-07-21*  
 USE lymphokines

**CYTOLOGICAL TECHNIQUES**

*INIS: 1975-10-29; ETDE: 1975-12-16*  
**NT1** banding techniques  
**NT1** chromosome sorting  
*RT* cell constituents  
*RT* cell flow systems  
*RT* cytology  
*RT* electron microscopy

**CYTOLOGY**

**BT1** biology

*RT* animal cells  
*RT* cell constituents  
*RT* cell flow systems  
*RT* cytochemistry  
*RT* cytological techniques  
*RT* genetics  
*RT* plant cells  
*RT* ultrastructural changes

**CYTOPLASM**

**BT1** cell constituents  
*RT* liposomes  
*RT* mitochondria  
*RT* plasmids

**CYTOSINE**

**\*BT1** amines  
**\*BT1** organic oxygen compounds  
**\*BT1** pyrimidines  
*RT* cytidine  
*RT* cytidylic acid

**cytostatics**

USE antimetabolic drugs

**cytotoxins**

*INIS: 2000-04-12; ETDE: 1981-04-20*  
 USE antimetabolic drugs

**cytriphos**

2000-04-12  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 USE amines  
 USE nucleotides  
 USE radioprotective substances

**czd process**

*INIS: 2000-04-12; ETDE: 1989-05-31*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**CZECH ORGANIZATIONS**

*INIS: 1998-01-29; ETDE: 1994-02-24*  
 (Prior to February 1994, this concept in ETDE was indexed by CZECHOSLOVAK ORGANIZATIONS.)  
*SF* czechoslovak organizations  
**BT1** national organizations  
**NT1** subj  
**NT1** ujev  
**NT1** uvvvr

**CZECH REPUBLIC**

*INIS: 1993-01-14; ETDE: 1993-04-08*  
 (Prior to March 1994, this concept in ETDE was indexed to CZECHOSLOVAKIA.)  
*SF* czechoslovakia  
**BT1** developing countries  
**\*BT1** eastern europe  
*RT* oecd

**czech wwr-c reactor**

2000-04-12  
 USE wwr-s-prague reactor

**czech wwr-s reactor**

*INIS: 1998-09-23; ETDE: 2002-03-27*  
 USE lvr-15 reactor

**czechoslovak lr-0 reactor**

*INIS: 1998-07-07; ETDE: 1995-01-03*  
 USE lr-0 reactor

**czechoslovak organizations**

1994-02-28  
 (Prior to February 1994, this was a valid ETDE descriptor.)  
 SEE czech organizations  
 SEE slovak organizations

**czechoslovak tr-0 reactor**

USE tr-0 reactor

**czechoslovakia**

1994-08-22

(Until August 1994 this was a valid descriptor.)

SEE czech republic  
SEE slovakia**CZOCHRALSKI METHOD**BT1 crystal growth methods  
RT crystal growth**d-1285 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE fl-1285 mesons

**d-1865 resonances**

INIS: 1985-01-17; ETDE: 1977-06-03

(Prior to January 1985 this was a valid ETDE descriptor.)

USE d mesons

**d-2007 resonances**

INIS: 1987-12-21; ETDE: 1978-04-06

(Prior to December 1987 this was a valid descriptor.)

USE d\*-2010 mesons

**D ANTIQUARKS**

2007-06-26

\*BT1 antiquarks  
\*BT1 d quarks**D-BRANES**

2007-08-13

*Special class of branes with specified Dirichlet boundary conditions.*

BT1 branes

**D CODES**

BT1 computer codes

**D-D REACTORS**

INIS: 1983-10-14; ETDE: 1983-11-09

BT1 thermonuclear reactors

**D-HE REACTORS**

1995-02-15

BT1 thermonuclear reactors

**D MESONS**

INIS: 1985-01-17; ETDE: 1985-02-07

(Prior to January 1985 D-1865 RESONANCES was used for this concept in ETDE.)

UF d-1865 resonances

\*BT1 charmed mesons  
\*BT1 pseudoscalar mesons

NT1 d minus mesons

NT1 d neutral mesons

NT2 anti-d neutral mesons

NT1 d plus mesons

**D MINUS MESONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 d mesons

**D NEUTRAL MESONS**

INIS: 1987-12-21; ETDE: 1988-08-01

(Prior to December 1987 this concept was indexed by D ZERO RESONANCES.)

UF d zero resonances

\*BT1 d mesons

NT1 anti-d neutral mesons

**D PLUS MESONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by D PLUS RESONANCES.)

UF d plus resonances

\*BT1 d mesons

**d plus resonances**

INIS: 1987-12-21; ETDE: 1978-12-20

(Prior to December 1987 this was a valid descriptor.)

USE d plus mesons

**D QUARKS**

INIS: 1995-09-08; ETDE: 1995-10-03

\*BT1 quarks

NT1 d antiquarks

RT quarkonium

**D REGION**

\*BT1 ionosphere

**d resonances**

INIS: 1988-03-08; ETDE: 1977-07-23

(Prior to December 1987 this was a valid descriptor.)

USE charmed mesons

**D S-2536 MESONS**

1995-07-17

\*BT1 axial vector mesons

\*BT1 charmed mesons

\*BT1 strange mesons

**D S MESONS**

INIS: 1995-08-07; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by F MESONS.)

UF d strange mesons

UF f-2030 resonances

UF f mesons

\*BT1 charmed mesons

\*BT1 pseudoscalar mesons

\*BT1 strange mesons

**D STATES**

BT1 energy levels

**d strange mesons**

INIS: 1987-12-21; ETDE: 2002-06-13

USE d s mesons

**D-T OPERATION**

INIS: 1996-03-04; ETDE: 1996-02-26

RT d-t reactors

RT deuterium ions

RT thermonuclear devices

RT thermonuclear fuels

RT tritium ions

**D-T REACTORS**

1996-03-04

BT1 thermonuclear reactors

NT1 pulsed d-t reactors

NT2 reference theta pinch reactor

NT1 steady-state d-t reactors

RT d-t operation

**D WAVES**

BT1 partial waves

RT angular momentum

RT quantum mechanics

**d zero resonances**

INIS: 1987-12-21; ETDE: 1978-12-20

(Prior to December 1987 this was a valid descriptor.)

USE d neutral mesons

**D\*-2010 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by D-2007 RESONANCES.)

UF d-2007 resonances

\*BT1 charmed mesons

\*BT1 vector mesons

**d\*-2420 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02

(Until July 1995 this was a valid term.)

USE d1-2420 mesons

**d\* plus resonances**

INIS: 1988-03-08; ETDE: 1978-12-20

(Prior to December 1987 this was a valid descriptor.)

USE baryons

**d\* zero resonances**

INIS: 1988-03-08; ETDE: 1978-12-20

(Prior to December 1987 this was a valid descriptor.)

USE baryons

**D\*2-2460 MESONS**

1995-07-17

\*BT1 charmed mesons

\*BT1 tensor mesons

**d\*effect**

2000-04-12

SEE baryons

**d\*phenomenon**

2000-04-12

SEE baryons

**d\*resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE baryons

**D\*S-2110 MESONS**

INIS: 1995-08-07; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by F\* RESONANCES.)

UF f\*resonances

\*BT1 charmed mesons

\*BT1 strange mesons

**D1-2420 MESONS**

1995-08-07

(Until July 1995 this concept was indexed by D\*-2420 MESONS.)

UF d\*-2420 mesons

\*BT1 axial vector mesons

\*BT1 charmed mesons

**DACRON**

UF terylene

\*BT1 polyesters

RT fibers

RT glycols

RT terephthalic acid

RT textiles

**DACUS**

\*BT1 fruit flies

NT1 dacus oleae

**DACUS OLEAE**

\*BT1 dacus

RT olives

**dahomey**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to September 1994, this was a valid ETDE descriptor.)

USE benin

**DAILY VARIATIONS**

*Includes day-to-day, diurnal, and semidiurnal variations.*

UF circadian variations  
 UF diel variations  
 UF diurnal variation  
 UF semidiurnal variation  
 BT1 variations  
 RT nocturnal variations  
 RT photoperiod

**DAIRY INDUSTRY**

INIS: 1993-01-28; ETDE: 1980-01-15  
 \*BT1 food industry

**dalat triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE triga-2-dalat reactor

**DALHART BASIN**

INIS: 1992-06-05; ETDE: 1984-02-10  
 BT1 permian basin  
 RT radioactive waste disposal  
 RT texas

**dalhousie university slowpoke reactor**

INIS: 1993-11-05; ETDE: 1980-01-24  
 USE slowpoke-dalhousie reactor

**DALITZ PLOT**

*Phase-space plot of momentum or mass distribution of final-state particles.*

\*BT1 scatterplots  
 RT linear momentum  
 RT mass  
 RT phase space  
 RT resonance particles

**dam**

INIS: 1984-04-04; ETDE: 1984-05-10  
*Diantipyrylmethane.*  
 USE pyrazolines

**DAMAGE**

2000-04-12  
*Not to be used in reference to living organisms. Use more specific descriptor, if possible.*

RT failures  
 RT fatigue  
 RT hazards  
 RT impact shock  
 RT nuclear damage  
 RT radiation effects  
 RT safety

**damage, vienna convention on liability**

INIS: 1993-11-05; ETDE: 2002-06-13  
 USE vcoclnd

**damage (nuclear)**

INIS: 1976-12-08; ETDE: 2002-06-13  
 USE nuclear damage

**damage (radiation, biological)**

INIS: 1976-12-08; ETDE: 2002-06-13  
 USE radiation injuries

**damage (radiation, chemical)**

INIS: 1976-12-08; ETDE: 2002-06-13  
 USE radiolysis

**damage (radiation, physical)**

INIS: 1976-12-08; ETDE: 2002-06-13  
 USE physical radiation effects

**damage factor**

INIS: 2000-04-12; ETDE: 1983-02-09  
 USE formation damage

**damage ratio**

INIS: 2000-04-12; ETDE: 1983-01-21  
 USE formation damage

**damage zone**

INIS: 2000-04-12; ETDE: 1983-01-21  
 USE formation damage

**DAMAGING NEUTRON FLUENCE**

INIS: 1976-05-07; ETDE: 1978-03-08  
 BT1 neutron fluence  
 NT1 equivalent fission fluence  
 RT interstitial helium generation  
 RT interstitial hydrogen generation  
 RT irradiation  
 RT neutron flux  
 RT neutronic damage functions  
 RT physical radiation effects

**DAMPA**

UF diisoamyl methylphosphonate  
 UF diisopentyl methylphosphonate  
 \*BT1 phosphonic acid esters

**dampers (gas flow)**

INIS: 2000-04-12; ETDE: 1979-01-30  
 (Prior to February 1997 DRAFT CONTROL SYSTEMS was used for this concept in ETDE.)  
 USE flow regulators  
 USE gas flow

**DAMPIERRE-1 REACTOR**

INIS: 1991-03-22; ETDE: 1991-04-09  
*Ouzouer-sur-Loire, France.*  
 \*BT1 pwr type reactors

**DAMPIERRE-2 REACTOR**

1996-09-20  
*Ouzouer-sur-Loire, France.*  
 \*BT1 pwr type reactors

**DAMPIERRE-3 REACTOR**

2003-07-24  
*Ouzouer-sur-Loire, France.*  
 \*BT1 pwr type reactors

**DAMPIERRE-4 REACTOR**

2003-07-24  
*Ouzouer-sur-Loire, France.*  
 \*BT1 pwr type reactors

**DAMPING**

NT1 landau damping  
 RT attenuation  
 RT energy losses  
 RT hydrodynamic mass effect  
 RT hysteresis  
 RT internal friction  
 RT mechanical vibrations  
 RT restraints  
 RT shock absorbers

**DAMS**

UF breakwaters  
 RT embankments  
 RT fish passage facilities  
 RT flood control  
 RT hydroelectric power plants  
 RT spillways  
 RT water reservoirs

**DANCOFF CORRECTION**

RT resonance escape probability

**DANGER COEFFICIENT**

BT1 reactivity coefficients

**DANISH ATOMIC ENERGY COMMISSION**

ETDE: 1975-09-11  
 \*BT1 danish organizations

**DANISH ORGANIZATIONS**

ETDE: 1975-08-19  
 BT1 national organizations  
 NT1 danish atomic energy commission  
 NT1 risoe national laboratory  
 NT2 risoe research establishment

**danish reactor-1**

USE dr-1 reactor

**danish reactor-2**

USE dr-2 reactor

**danish reactor-3**

USE dr-3 reactor

**danny boy event**

1994-10-14  
*A test made during OPERATION NOUGAT.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE cratering explosions  
 USE nuclear explosions

**DANTE TOKAMAK**

INIS: 1984-08-24; ETDE: 1984-10-24  
*DANish Tokamak Experiment.*  
 \*BT1 tokamak devices

**DANUBE RIVER**

\*BT1 rivers  
 RT austria  
 RT black sea  
 RT bulgaria  
 RT federal republic of germany  
 RT hungary  
 RT romania  
 RT serbia  
 RT slovakia  
 RT ukraine

**DAPEX PROCESS**

\*BT1 reprocessing  
 RT solvent extraction

**DAPHNIA**

\*BT1 branchiopods  
 RT plankton  
 RT zooplankton

**DARCY LAW**

RT fluid flow

**daresbury synchrotron**

USE nina

**darex process**

2000-04-12  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE reprocessing

**dark matter**

INIS: 1985-01-17; ETDE: 1985-03-12  
*In outer space.*  
 USE nonluminous matter

**dark repair**

USE dna repair

**DARLINGTON-1 REACTOR**

INIS: 1976-11-08; ETDE: 1976-12-16  
*Darlington, Ontario, Canada.*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT darlington site

**DARLINGTON-2 REACTOR**

INIS: 1976-11-08; ETDE: 1976-12-16  
*Darlington, Ontario, Canada.*  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors

\*BT1 phwr type reactors  
RT darlington site

**DARLINGTON-3 REACTOR**

INIS: 1976-11-08; ETDE: 1976-12-16

Darlington, Ontario, Canada.

\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
RT darlington site

**DARLINGTON-4 REACTOR**

INIS: 1976-11-08; ETDE: 1977-05-07

Darlington, Ontario, Canada.

\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
RT darlington site

**DARLINGTON SITE**

INIS: 1993-01-14; ETDE: 1993-05-06

Darlington, Ontario, Canada.

BT1 reactor sites  
RT darlington-1 reactor  
RT darlington-2 reactor  
RT darlington-3 reactor  
RT darlington-4 reactor

**darmstadt storage ring**

INIS: 1992-02-22; ETDE: 1992-03-09

USE esr storage ring

**darmstadt synchrotron**

1991-02-11

USE sis synchrotron

**DARMSTADTIUM**

2004-03-19

(Prior to March 2004 ELEMENT 110 was used for this element.)

UF *eka-platinum*  
UF *element 110*  
UF *ununnilium*

\*BT1 transactinide elements

**DARMSTADTIUM 267**

2007-08-29

\*BT1 alpha decay radioisotopes  
\*BT1 darmstadtium isotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 microseconds living radioisotopes

**DARMSTADTIUM 269**

2004-03-19

(Prior to March 2004 ELEMENT 110 269 was used for this concept.)

UF *element 110 269*

\*BT1 alpha decay radioisotopes  
\*BT1 darmstadtium isotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 microseconds living radioisotopes

**DARMSTADTIUM 270**

2004-03-19

(Prior to March 2004 ELEMENT 110 270 was used for this concept.)

UF *element 110 270*

\*BT1 alpha decay radioisotopes  
\*BT1 darmstadtium isotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes

**DARMSTADTIUM 271**

2004-11-30

\*BT1 alpha decay radioisotopes  
\*BT1 darmstadtium isotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 isomeric transition isotopes

\*BT1 milliseconds living radioisotopes

**DARMSTADTIUM 272**

2007-08-29

\*BT1 darmstadtium isotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 spontaneous fission radioisotopes

**DARMSTADTIUM 273**

2007-08-29

\*BT1 alpha decay radioisotopes  
\*BT1 darmstadtium isotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 milliseconds living radioisotopes

**DARMSTADTIUM 279**

2007-08-29

\*BT1 alpha decay radioisotopes  
\*BT1 darmstadtium isotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**DARMSTADTIUM 281**

2007-08-29

\*BT1 darmstadtium isotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 spontaneous fission radioisotopes

**DARMSTADTIUM COMPOUNDS**

2004-03-19

(Prior to March 2004 ELEMENT 110 COMPOUNDS was used for this concept.)

UF *element 110 compounds*

\*BT1 transactinide compounds

**DARMSTADTIUM ISOTOPES**

2004-03-19

(Prior to March 2004 ELEMENT 110 ISOTOPES was used for this concept.)

UF *element 110 isotopes*

BT1 isotopes  
NT1 darmstadtium 267  
NT1 darmstadtium 269  
NT1 darmstadtium 270  
NT1 darmstadtium 271  
NT1 darmstadtium 272  
NT1 darmstadtium 273  
NT1 darmstadtium 279  
NT1 darmstadtium 281

**DARRIEUS ROTORS**

INIS: 2000-04-12; ETDE: 1976-02-19

BT1 rotors  
RT vertical axis turbines

**DATA**

For data flagging always use a more specific term.

UF *measured values*  
SF *recorded information*  
SF *tables*  
SF *values*  
BT1 information  
NT1 data compilation  
NT1 numerical data  
NT2 compiled data  
NT2 evaluated data  
NT2 experimental data  
NT2 financial data  
NT2 statistical data  
NT2 theoretical data  
RT cinda  
RT comparative evaluations  
RT data base management  
RT data covariances  
RT data processing

RT information needs  
RT redundancy

**DATA ACQUISITION**

UF *acquisition (data)*  
SF *gidep*  
SF *government industry data exchange program (gidep)*  
RT compiled data  
RT data compilation  
RT data processing  
RT recording systems  
RT reporting requirements

**DATA ACQUISITION SYSTEMS**

Systems for converting data to machine readable form and gathering it into a computer store.

RT camac system  
RT electronic equipment  
RT fastbus system  
RT identification systems  
RT nuclear instrument modules  
RT readout systems  
RT recording systems

**DATA ANALYSIS**

INIS: 1991-10-08; ETDE: 1975-12-16

RT computer calculations  
RT data processing  
RT ground truth measurements  
RT prony method

**DATA BASE MANAGEMENT**

INIS: 1986-07-09; ETDE: 1978-07-05

BT1 management  
RT data  
RT data compilation  
RT data processing  
RT data tagging  
RT geographic information systems  
RT information  
RT information retrieval  
RT information systems  
RT nuclear data collections

**DATA COMPILATION**

1985-12-10

The process of compiling large volumes of data. For data flagging use COMPILED DATA.

\*BT1 data  
RT compiled data  
RT data acquisition  
RT data base management  
RT documentation  
RT information centers  
RT information systems  
RT libraries  
RT nuclear data collections

**data compilation (evaluated)**

INIS: 1978-10-20; ETDE: 2002-06-13

USE evaluated data

**DATA COVARIANCES**

INIS: 1985-12-10; ETDE: 1979-02-27

Relates to statistical uncertainties in measured quantities.

UF *uncertainty in data values*  
RT accuracy  
RT data  
RT errors  
RT statistics

**data display devices**

USE display devices

**data display systems**

USE display devices



**DATA-FLOW PROCESSING**

INIS: 1992-08-18; ETDE: 1984-02-10

- BT1 programming
- RT algorithms
- RT computers

**data forms**

INIS: 2000-04-12; ETDE: 1982-06-07

(Prior to February 1997 this was a valid ETDE descriptor.)

- USE document types

**DATA PROCESSING**

2000-02-01

Manipulation of unit facts.

- UF chernoff faces
- UF electronic data processing
- UF handling (data)
- UF processing (data)
- SF card punches
- BT1 processing
- NT1 distributed data processing
- NT1 memory management
- NT1 spectra unfolding
- NT1 task scheduling
- RT array processors
- RT calculators
- RT computers
- RT data
- RT data acquisition
- RT data analysis
- RT data base management
- RT data transmission
- RT data transmission systems
- RT digital filters
- RT digital frequency analysis
- RT digitizers
- RT expert systems
- RT frequency analysis
- RT image processing
- RT image scanners
- RT information theory
- RT multi-parameter analysis
- RT pattern recognition
- RT personal computers
- RT prony method
- RT recording systems

**data processors**

INIS: 1984-04-04; ETDE: 1984-05-10

- USE digital computers

**data storage devices**

- USE memory devices

**DATA TAGGING**

INIS: 1999-05-13; ETDE: 1980-05-23

- UF numerical data tagging
- RT data base management
- RT information retrieval
- RT information systems

**DATA TRANSMISSION**

(From July 1984 till April 1997

CRYPTOGRAPHY was a valid ETDE descriptor.)

- UF transmission (data)
- BT1 communications
- NT1 telemetry
- RT camac system
- RT computer networks
- RT cryptography
- RT data processing
- RT data transmission systems
- RT equipment interfaces
- RT multiplexers
- RT nuclear instrument modules
- RT quantum teleportation
- RT signal conditioning
- RT signal distortion

- RT signals
- RT telephones

**DATA TRANSMISSION SYSTEMS**

INIS: 1985-03-19; ETDE: 1982-02-23

- RT communications
- RT data processing
- RT data transmission

**data validation**

INIS: 2000-04-12; ETDE: 1979-12-17

- USE verification

**DATES**

- \*BT1 fruits

**dating**

ETDE: 1975-09-11

- USE age estimation

**datum pressure**

INIS: 1986-07-09; ETDE: 1978-09-11

- USE reservoir pressure

**DAUGHTER PRODUCTS**

- UF decay products
- BT1 isotopes
- RT natural radioactivity
- RT radioisotope generators

**davidite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE oxide minerals
- USE uranium minerals

**DAVIS BESSE-1 REACTOR**

1975-10-29

FirstEnergy Nuclear Operating Co., Oak Harbor, Ohio, USA.

- UF davis besse reactor
- UF oak harbor ohio reactor
- \*BT1 pwr type reactors

**DAVIS BESSE-2 REACTOR**

1977-10-17

Toledo Edison Co., Oak Harbor, Ohio, USA. Canceled in 1980 before construction began.

- \*BT1 pwr type reactors

**DAVIS BESSE-3 REACTOR**

1977-10-17

Toledo Edison Co., Oak Harbor, Ohio, USA. Canceled in 1980 before construction began.

- \*BT1 pwr type reactors

**davis besse reactor**

INIS: 1990-12-06; ETDE: 1976-02-19

(Prior to December 1990, this was a valid descriptor.)

- USE davis besse-1 reactor

**davy s-h process**

INIS: 2000-04-12; ETDE: 1984-12-26

A lime-based, formic-acid-buffered process using in-loop forced oxidation for flue gas desulfurization.

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**DAVYDOV-FILIPOV MODEL**

UF davydov model

- \*BT1 nuclear models
- RT collective model

**davydov model**

- USE davydov-filipov model

**DAWSONITE**

2000-04-12

A mineral consisting of a basic sodium aluminum carbonate occurring in white beaded crystals.

- \*BT1 carbonate minerals
- RT aluminium compounds
- RT hydroxides
- RT sodium carbonates

**DAYA BAY-1 REACTOR**

2003-01-22

Shenzhen, Guangdong, China.

(Prior to January 2003 DAYA BAY REACTOR was used.)

UF daya bay reactor

- \*BT1 pwr type reactors

**DAYA BAY-2 REACTOR**

2003-01-22

Shenzhen, Guangdong, China.

- \*BT1 pwr type reactors

**daya bay reactor**

INIS: 1991-09-17; ETDE: 1991-11-22

Shenzhen, Guangdong, China.

(Prior to January 2003 this was a valid descriptor.)

- USE daya bay-1 reactor

**dayglow**

- USE airglow

**DAYLIGHTING**

INIS: 2000-04-12; ETDE: 1981-01-09

- UF natural lighting
- RT illuminance
- RT lighting requirements
- RT lighting systems
- RT skylights
- RT solar radiation
- RT windows

**DAYS LIVING RADIOISOTOPES**

- \*BT1 radioisotopes
- NT1 actinium 225
- NT1 actinium 226
- NT1 americium 240
- NT1 antimony 119
- NT1 antimony 120
- NT1 antimony 122
- NT1 antimony 124
- NT1 antimony 126
- NT1 antimony 127
- NT1 argon 37
- NT1 arsenic 71
- NT1 arsenic 72
- NT1 arsenic 73
- NT1 arsenic 74
- NT1 arsenic 76
- NT1 arsenic 77
- NT1 barium 128
- NT1 barium 131
- NT1 barium 133
- NT1 barium 135
- NT1 barium 140
- NT1 berkelium 245
- NT1 berkelium 246
- NT1 berkelium 249
- NT1 beryllium 7
- NT1 bismuth 205
- NT1 bismuth 206
- NT1 bismuth 210
- NT1 bromine 77
- NT1 bromine 82
- NT1 cadmium 115
- NT1 calcium 45
- NT1 calcium 47
- NT1 californium 246
- NT1 californium 248

NT1 californium 253  
 NT1 californium 254  
 NT1 cerium 134  
 NT1 cerium 137  
 NT1 cerium 139  
 NT1 cerium 141  
 NT1 cerium 143  
 NT1 cerium 144  
 NT1 cesium 129  
 NT1 cesium 131  
 NT1 cesium 132  
 NT1 cesium 136  
 NT1 chromium 51  
 NT1 cobalt 56  
 NT1 cobalt 57  
 NT1 cobalt 58  
 NT1 copper 67  
 NT1 curium 240  
 NT1 curium 241  
 NT1 curium 242  
 NT1 dubnium 268  
 NT1 dysprosium 159  
 NT1 dysprosium 166  
 NT1 einsteinium 251  
 NT1 einsteinium 253  
 NT1 einsteinium 254  
 NT1 einsteinium 255  
 NT1 erbium 160  
 NT1 erbium 169  
 NT1 erbium 172  
 NT1 europium 145  
 NT1 europium 146  
 NT1 europium 147  
 NT1 europium 148  
 NT1 europium 149  
 NT1 europium 156  
 NT1 fermium 252  
 NT1 fermium 253  
 NT1 fermium 257  
 NT1 gadolinium 146  
 NT1 gadolinium 147  
 NT1 gadolinium 149  
 NT1 gadolinium 151  
 NT1 gadolinium 153  
 NT1 gallium 67  
 NT1 germanium 68  
 NT1 germanium 69  
 NT1 germanium 71  
 NT1 gold 194  
 NT1 gold 195  
 NT1 gold 196  
 NT1 gold 198  
 NT1 gold 199  
 NT1 hafnium 175  
 NT1 hafnium 179  
 NT1 hafnium 181  
 NT1 holmium 166  
 NT1 indium 111  
 NT1 indium 114  
 NT1 iodine 124  
 NT1 iodine 125  
 NT1 iodine 126  
 NT1 iodine 131  
 NT1 iridium 188  
 NT1 iridium 189  
 NT1 iridium 190  
 NT1 iridium 192  
 NT1 iridium 193  
 NT1 iridium 194  
 NT1 iron 59  
 NT1 krypton 79  
 NT1 lanthanum 140  
 NT1 lead 203  
 NT1 lutetium 169  
 NT1 lutetium 170  
 NT1 lutetium 171  
 NT1 lutetium 172  
 NT1 lutetium 174  
 NT1 lutetium 177

NT1 manganese 52  
 NT1 manganese 54  
 NT1 mendelevium 258  
 NT1 mercury 195  
 NT1 mercury 197  
 NT1 mercury 203  
 NT1 molybdenum 99  
 NT1 neodymium 140  
 NT1 neodymium 147  
 NT1 neptunium 234  
 NT1 neptunium 238  
 NT1 neptunium 239  
 NT1 nickel 56  
 NT1 nickel 57  
 NT1 nickel 66  
 NT1 niobium 91  
 NT1 niobium 92  
 NT1 niobium 95  
 NT1 osmium 185  
 NT1 osmium 191  
 NT1 osmium 193  
 NT1 palladium 100  
 NT1 palladium 103  
 NT1 phosphorus 32  
 NT1 phosphorus 33  
 NT1 platinum 188  
 NT1 platinum 191  
 NT1 platinum 193  
 NT1 platinum 195  
 NT1 plutonium 237  
 NT1 plutonium 246  
 NT1 plutonium 247  
 NT1 polonium 206  
 NT1 polonium 210  
 NT1 praseodymium 143  
 NT1 promethium 143  
 NT1 promethium 148  
 NT1 promethium 149  
 NT1 promethium 151  
 NT1 protactinium 229  
 NT1 protactinium 230  
 NT1 protactinium 232  
 NT1 protactinium 233  
 NT1 radium 223  
 NT1 radium 224  
 NT1 radium 225  
 NT1 radon 222  
 NT1 rhenium 182  
 NT1 rhenium 183  
 NT1 rhenium 184  
 NT1 rhenium 186  
 NT1 rhenium 189  
 NT1 rhodium 101  
 NT1 rhodium 102  
 NT1 rhodium 105  
 NT1 rhodium 99  
 NT1 rubidium 83  
 NT1 rubidium 84  
 NT1 rubidium 86  
 NT1 ruthenium 103  
 NT1 ruthenium 97  
 NT1 samarium 145  
 NT1 samarium 153  
 NT1 scandium 44  
 NT1 scandium 46  
 NT1 scandium 47  
 NT1 scandium 48  
 NT1 selenium 72  
 NT1 selenium 75  
 NT1 silver 105  
 NT1 silver 106  
 NT1 silver 110  
 NT1 silver 111  
 NT1 strontium 82  
 NT1 strontium 83  
 NT1 strontium 85  
 NT1 strontium 89  
 NT1 sulfur 35  
 NT1 tantalum 177

NT1 tantalum 182  
 NT1 tantalum 183  
 NT1 technetium 95  
 NT1 technetium 96  
 NT1 technetium 97  
 NT1 tellurium 118  
 NT1 tellurium 119  
 NT1 tellurium 121  
 NT1 tellurium 123  
 NT1 tellurium 125  
 NT1 tellurium 127  
 NT1 tellurium 129  
 NT1 tellurium 131  
 NT1 tellurium 132  
 NT1 terbium 153  
 NT1 terbium 155  
 NT1 terbium 156  
 NT1 terbium 160  
 NT1 terbium 161  
 NT1 thallium 200  
 NT1 thallium 201  
 NT1 thallium 202  
 NT1 thorium 227  
 NT1 thorium 231  
 NT1 thorium 234  
 NT1 thulium 165  
 NT1 thulium 167  
 NT1 thulium 168  
 NT1 thulium 170  
 NT1 thulium 172  
 NT1 tin 113  
 NT1 tin 117  
 NT1 tin 119  
 NT1 tin 121  
 NT1 tin 123  
 NT1 tin 125  
 NT1 tungsten 178  
 NT1 tungsten 181  
 NT1 tungsten 185  
 NT1 tungsten 187  
 NT1 tungsten 188  
 NT1 uranium 230  
 NT1 uranium 231  
 NT1 uranium 237  
 NT1 vanadium 48  
 NT1 vanadium 49  
 NT1 xenon 127  
 NT1 xenon 129  
 NT1 xenon 131  
 NT1 xenon 133  
 NT1 ytterbium 166  
 NT1 ytterbium 169  
 NT1 ytterbium 175  
 NT1 yttrium 87  
 NT1 yttrium 88  
 NT1 yttrium 90  
 NT1 yttrium 91  
 NT1 zinc 65  
 NT1 zinc 72  
 NT1 zirconium 88  
 NT1 zirconium 89  
 NT1 zirconium 95  
 RT half-life  
 RT lifetime

**DBP**

UF dibutyl phosphate  
 \*BT1 butyl phosphates

**DC AMPLIFIERS**

\*BT1 amplifiers

**dc resins**

1996-06-26

(Prior to June 1996 this was a valid ETDE descriptor.)

USE silicones

**DC SYSTEMS**

*INIS: 1992-03-09; ETDE: 1976-05-17*

*Direct-current electric power systems.*

- \*BT1 power systems
- NT1 ehv dc systems
- NT1 hvdc systems
- NT1 uhv dc systems

**dc to ac inverters**

*INIS: 1976-09-06; ETDE: 1975-08-19*

USE inverters

**DC TO DC CONVERTERS**

*INIS: 1983-06-02; ETDE: 1975-08-19*

UF converters (electric)

- \*BT1 electrical equipment
- RT inverters
- RT power conditioning circuits
- RT power supplies
- RT rectifiers
- RT transformers

**DCA REACTOR**

*JNC, Oarai, Ibaraki, Japan.*

- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 tank type reactors
- \*BT1 zero power reactors

**DCI ORSAY STORAGE RING**

BT1 storage rings

**DCTA**

*Diaminocyclohexanetraacetic acid.*

UF *diaminocyclohexanetraacetic acid*

- \*BT1 amino acids
- BT1 chelating agents

**dcx devices**

*1996-06-26*

(Until June 1996 this was a valid descriptor.)

USE magnetic mirrors

**ddg**

*INIS: 2000-04-12; ETDE: 1981-08-04*

USE distillers dried grains

**DDT**

UF *dichlorodiphenyltrichloroethane*

- \*BT1 aromatics
- \*BT1 insecticides
- \*BT1 organic chlorine compounds
- RT ethane

**DE BROGLIE WAVELENGTH**

*1998-02-26*

- BT1 wavelengths
- RT quantum mechanics

**DE-EXCITATION**

- BT1 energy-level transitions
- NT1 radiationless decay
- RT excitation
- RT relaxation

**DE HAAS-VAN ALPHEN EFFECT**

RT diamagnetism

**DE SITTER GROUP**

- \*BT1 lie groups
- RT de sitter space

**DE SITTER SPACE**

*2007-08-13*

- \*BT1 mathematical space
- RT de sitter group
- RT lorentz groups
- RT space-time
- RT string theory
- RT superstring theory

**DEACTIVATION**

*1985-07-23*

RT chemical activation

**DEAD SEA**

*INIS: 1978-04-21; ETDE: 1977-01-28*

\*BT1 lakes

**DEAD TIME**

- UF live time
- BT1 timing properties
- RT sensitivity
- RT time measurement
- RT timing circuits

**DEAERATORS**

*INIS: 1984-04-04; ETDE: 1982-10-20*

*Devices that remove dissolved gases from liquids.*

- RT aeration
- RT boilers
- RT dissolved gases
- RT feedwater
- RT water treatment

**dealers**

*INIS: 1992-04-03; ETDE: 1979-10-03*

USE marketers

**DEALKYLATION**

BT1 chemical reactions

**DEAMINATION**

- BT1 chemical reactions
- RT amination

**DEASHING**

*1992-07-07*

- RT ashes
- RT cleaning
- RT purification
- RT removal

**DEASPHALTING**

*INIS: 2000-04-12; ETDE: 1979-05-25*

*The process of removing asphalt from petroleum fractions.*

\*BT1 extraction

**DEATH**

- RT cell killing
- RT lethal irradiation
- RT life span
- RT mortality
- RT supralethal irradiation

**debts**

*INIS: 2000-04-12; ETDE: 1979-12-10*

SEE financial data

**DEBRECEN CYCLOTRON**

*INIS: 1985-05-15; ETDE: 1985-07-18*

*At ATOMKI, Debrecen, Hungary.*

- UF *atomki cyclotron*
- \*BT1 isochronous cyclotrons

**debris (nuclear)**

USE fission products

**DEBT COLLECTION**

*INIS: 2000-04-12; ETDE: 1983-05-21*

- RT accounting
- RT administrative procedures
- RT audits
- RT interest rate
- RT procurement

**debye cutoff**

USE debye length

**DEBYE LENGTH**

*1999-07-20*

UF *debye cutoff*

UF *debye shield*

UF *debye shielding length*

- \*BT1 length
- RT plasma density

**DEBYE-SCHERRER METHOD**

- BT1 diffraction methods
- RT powders
- RT structural chemical analysis
- RT x-ray diffraction

**debye shield**

USE debye length

**debye shielding length**

USE debye length

**DEBYE TEMPERATURE**

- UF *temperature (debye)*
- RT specific heat

**DEBYE-WALLER FACTOR**

- RT diffraction
- RT lattice vibrations

**DEC COMPUTERS**

*INIS: 1980-09-12; ETDE: 1980-03-29*

*Computers manufactured by Digital Equipment Corporation.*

- UF *vax computers*
- BT1 computers
- NT1 pdp computers

**DECA DEVICES**

\*BT1 magnetic mirrors

**decahydronaphthalene**

USE decalin

**DECALIN**

UF *decahydronaphthalene*

- \*BT1 cycloalkanes
- RT naphthalene

**decalso**

USE ion exchange materials

**DECANE**

*1984-04-04*

\*BT1 alkanes

**DECANOIC ACID**

UF *capric acid*

\*BT1 monocarboxylic acids

**DECANOLS**

UF *decyl alcohols*

\*BT1 alcohols

**DECANTATION**

- BT1 separation processes
- RT sedimentation

**DECAPODS**

*INIS: 1993-07-14; ETDE: 1981-06-15*

- \*BT1 crustaceans
- NT1 crabs
- NT1 lobsters
- NT1 prawns
- NT1 shrimp

**DECARBONIZATION**

- RT carbonization
- RT cleaning
- RT decontamination

**decarboxylase**

*1982-06-09*

(Prior to June 1982 this was a valid term, and older material is so indexed.)

USE decarboxylases

**DECARBOXYLASES**

INIS: 1982-06-09; ETDE: 1980-11-12

UF decarboxylase

\*BT1 carboxy-lyases

**DECARBOXYLATION**

BT1 chemical reactions

RT carboxylation

RT lyases

**DECARBURIZATION**

1976-06-23

BT1 chemical reactions

RT austenite

RT carbides

RT carbon

RT carburization

RT heat treatments

RT steels

**DECAY**

For nuclear or particle decay only. For chemical or biological decay, see DECOMPOSITION.

UF degradation (nuclear)

UF disintegration (nuclear)

UF fragments (decay)

NT1 nuclear decay

NT2 alpha decay

NT2 beta decay

NT3 beta-minus decay

NT4 double beta decay

NT3 beta-plus decay

NT3 electron capture decay

NT4 k capture

NT4 l capture

NT4 m capture

NT2 gamma decay

NT2 heavy ion emission decay

NT3 carbon 12 emission decay

NT3 carbon 14 emission decay

NT3 carbon 16 emission decay

NT3 magnesium 28 emission decay

NT3 magnesium 30 emission decay

NT3 neon 24 emission decay

NT3 oxygen 16 emission decay

NT3 silicon 32 emission decay

NT3 silicon 34 emission decay

NT2 internal conversion

NT3 k conversion

NT3 l conversion

NT3 m conversion

NT2 proton-emission decay

NT2 spontaneous fission

NT1 particle decay

NT2 electromagnetic particle decay

NT2 hadronic particle decay

NT2 radiative decay

NT2 weak particle decay

NT3 leptonic decay

NT3 semileptonic decay

NT3 weak hadronic decay

RT angular correlation

RT branching ratio

RT delayed alpha particles

RT delayed gamma radiation

RT delayed neutrons

RT delayed protons

RT energy-level transitions

RT forbidden transitions

RT ft value

RT half-life

RT interactions

RT internal pair production

RT isomeric transitions

RT lifetime

RT mixing ratio

RT particle kinematics

RT radioisotope generators

RT selection rules

**decay (biological)**

USE decomposition

**DECAY AMPLITUDES**

\*BT1 transition amplitudes

**decay heat**

INIS: 1976-07-30; ETDE: 2002-06-13

SEE after-heat

**decay heat removal**

INIS: 2000-04-12; ETDE: 1976-03-11

USE after-heat removal

**DECAY INSTABILITY**

\*BT1 plasma instability

RT plasma macroinstabilities

RT plasma microinstabilities

RT plasma waves

**decay products**

USE daughter products

**deceleration**

USE acceleration

**dechanneling**

USE channeling

**DECHLORINATION**

\*BT1 dehalogenation

RT chlorination

**DECIDUOUS TREES**

1993-07-14

Trees that show seasonal shedding of leaves.

\*BT1 trees

**decimeter wave radiation (1-3 dm)**

2000-03-31

USE ghz range 01-100

USE radiowave radiation

**decimeter wave radiation (3-10dm)**

2000-04-12

USE mhz range 100-1000

USE radiowave radiation

**DECISION MAKING**

INIS: 1996-05-06; ETDE: 1976-08-04

For documents describing a formal process for reaching a decision, i.e., making a choice among alternatives, and its associated techniques, to establish policies or procedures.

(From September 1982 till March 1997

OPERATIONS RESEARCH was a valid

ETDE descriptor.)

SF operations research

RT advisory committees

RT decision tree analysis

RT game theory

RT intervenors

RT planning

RT regional cooperation

RT time-series analysis

**DECISION TREE ANALYSIS**

1996-05-06

RT control

RT decision making

RT planning

**decisions and orders**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to March 1996 this was a valid ETDE descriptor.)

SEE administrative procedures

**DECK EFFECT**

Kinematic peak in the mass spectrum of resonance particles.

RT kinetics

RT resonance particles

**DECLADDING**

BT1 head end processes

NT1 chemical decladding

NT1 mechanical decladding

RT cladding

RT fuel cans

RT fuel elements

RT reprocessing

**DECLASSIFICATION**

INIS: 1998-07-06; ETDE: 1983-03-24

UF information declassification

RT classified information

RT public information

**DECOMMISSIONING**

1996-04-29

NT1 reactor decommissioning

RT cancellation

RT commissioning

RT remedial action

RT shutdown

**DECOMPOSITION**

UF decay (biological)

UF degradation (chemical)

UF disintegration (biological)

UF disintegration (chemical)

BT1 chemical reactions

NT1 autolysis

NT2 autoradiolysis

NT1 biodegradation

NT1 carbonization

NT2 coking

NT2 electrocarbonization

NT1 depolymerization

NT1 destructive distillation

NT1 glycolysis

NT1 hemolysis

NT1 photolysis

NT2 biophotolysis

NT1 proteolysis

NT2 fibrinolysis

NT1 pyrolysis

NT2 calcination

NT2 cracking

NT3 catalytic cracking

NT3 hydrocracking

NT3 thermal cracking

NT2 flash hydrolysis process

NT1 radiolysis

NT2 autoradiolysis

NT1 retorting

NT2 in-situ retorting

NT1 solvolysis

NT2 acetolysis

NT2 ammonolysis

NT2 hydrolysis

NT3 acid hydrolysis

NT3 alkaline hydrolysis

NT3 autohydrolysis

NT3 enzymatic hydrolysis

NT3 saccharification

NT3 saponification

RT aerobic conditions

RT anaerobic conditions

RT catabolism

RT composting

RT dissociation

RT nucleic acid denaturation

RT strand breaks

RT thermal gravimetric analysis

RT weathering

**DECONTAMINATION**

UF decontamination factor

UF radiation decontamination

UF radioactive decontamination

BT1 cleaning

RT bioadsorbents  
 RT chelating agents  
 RT clays  
 RT coolant cleanup systems  
 RT decarbonization  
 RT detergents  
 RT detoxification  
 RT lavage  
 RT life support systems  
 RT natural attenuation  
 RT protective coatings  
 RT purification  
 RT radiation protection  
 RT remedial action  
 RT safety showers  
 RT scrubbing  
 RT surface cleaning  
 RT surface contamination  
 RT washout

**decontamination factor**

USE decontamination  
 USE efficiency

**DECOUPLING**

RT coupling  
 RT ft value

**decyl alcohols**

USE decanols

**decylamine-tris**

USE tda

**DEDTC**

UF diethyldithiocarbamates  
 \*BT1 carbamates  
 BT1 chelating agents  
 \*BT1 organic sulfur compounds

**DEEP INELASTIC HEAVY ION REACTIONS**

INIS: 1978-08-14; ETDE: 1978-10-19

UF deep inelastic transfer reactions  
 UF strongly damped heavy ion reactions  
 \*BT1 heavy ion reactions  
 RT compound-nucleus reactions  
 RT heavy ion fusion reactions  
 RT incomplete fusion reactions  
 RT nuclear fragmentation  
 RT precompound-nucleus emission  
 RT quasi-fission

**DEEP INELASTIC SCATTERING**

INIS: 1975-09-16; ETDE: 1975-10-28

Lepton-nucleon inelastic scattering involving an exchange of a virtual photon.

\*BT1 inelastic scattering  
 \*BT1 lepton-nucleon interactions  
 RT boson-exchange models  
 RT emc effect  
 RT resonance scattering  
 RT virtual particles

**deep inelastic transfer reactions**

INIS: 1993-11-05; ETDE: 2002-06-13

USE deep inelastic heavy ion reactions

**DEEP LEVEL TRANSIENT SPECTROSCOPY**

INIS: 1999-06-23; ETDE: 1983-04-28

Means of obtaining Fourier components of transient response of deep energy levels in semiconductors.

UF dlts  
 BT1 spectroscopy  
 RT capacitance  
 RT transients  
 RT traps

**DEEP RIVER**

\*BT1 ontario

**DEEP WATER OIL TERMINALS**

1993-06-02

Oil terminals located in deep water for supertankers.

BT1 terminal facilities  
 RT moorings  
 RT tanker ships  
 RT transport

**DEER**

UF caribou  
 UF mule deer  
 UF odocoileus  
 UF reindeer  
 \*BT1 ruminants  
 RT antlers

**DEES**

BT1 electrodes  
 RT cyclotrons  
 RT mass spectrometers

**DEFECTS**

Not for the concept covered by CRYSTAL DEFECTS.

UF flaws  
 UF imperfections  
 RT cracks  
 RT fracture mechanics  
 RT fractures  
 RT porosity  
 RT stress intensity factors  
 RT voids

**defense**

INIS: 2000-04-12; ETDE: 1979-11-23

USE national defense

**defense atomic support agency trigamk-f**

1993-11-05

USE affri reactor

**defense production act**

INIS: 2000-04-12; ETDE: 1983-03-23

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE national defense

**DEFEROXAMINE**

UF dfa  
 \*BT1 amines  
 BT1 chelating agents

**deficiency (nutritional)**

USE nutritional deficiency

**DEFORESTATION**

INIS: 1991-10-10; ETDE: 1983-09-15

RT biomass  
 RT carbon cycle  
 RT forestry  
 RT forests  
 RT revegetation

**DEFORMATION**

(From January 1975 till May 1996 Portevin-le Chatelier effect was a valid ETDE descriptor.)

UF buckling (structural)  
 UF portevin-le chatelier effect  
 UF structural buckling  
 NT1 bending  
 NT1 bowing  
 NT1 corrosion denting  
 NT1 elongation  
 NT1 nuclear deformation  
 NT1 ratcheting  
 NT1 swelling  
 RT dilatancy  
 RT dynamic loads  
 RT elasticity

RT fractures  
 RT magnetostriction  
 RT materials working  
 RT mechanical properties  
 RT plasticity  
 RT rheology  
 RT slip  
 RT static loads  
 RT strains  
 RT torsion

**DEFORMED NUCLEI**

Nuclei which are deformed even in the ground state.

UF nonaxial nuclei  
 BT1 nuclei  
 NT1 superdeformed nuclei  
 RT aligned coupling scheme  
 RT backbending  
 RT cranking model  
 RT governor model  
 RT nuclear deformation  
 RT nuclear models  
 RT rotation-vibration model

**DEFROSTING**

INIS: 2000-04-12; ETDE: 1982-02-23

Removal of frost or ice from an object.

RT freezing  
 RT frost  
 RT ice  
 RT melting  
 RT thawing

**DEGASSING**

UF outgassing  
 RT castings  
 RT desorption  
 RT fission product release

**degradation (chemical)**

USE decomposition

**degradation (energy)**

USE energy losses

**degradation (nuclear)**

USE decay

**degradation (radioinduced)**

INIS: 1976-11-17; ETDE: 1975-09-11

USE radiolysis

**degradation (thermal)**

INIS: 2000-04-12; ETDE: 1976-06-07

USE thermal degradation

**DEGREE DAYS**

INIS: 1993-01-13; ETDE: 1975-09-30

BT1 units  
 RT air conditioning  
 RT climates  
 RT space heating  
 RT temperature measurement

**DEGREES OF FREEDOM**

INIS: 1985-07-22; ETDE: 1986-10-07

RT mechanics  
 RT statistics  
 RT thermodynamics  
 RT variations

**DEHALOGENATION**

INIS: 1982-10-28; ETDE: 1982-11-30

BT1 chemical reactions  
 NT1 dechlorination  
 NT1 deiodination

**dehpa**

SEE hdehp  
 SEE phosphonic acid esters

**dehumidification**

INIS: 2000-04-12; ETDE: 1978-12-11

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE dehydration  
SEE drying

**DEHUMIDIFIERS**

INIS: 1984-04-04; ETDE: 1977-06-21

RT desiccants  
RT dryers  
RT electric appliances  
RT humidifiers

**DEHYDRATION**

(From December 1978 to February 1997 DEHUMIDIFICATION was a valid ETDE descriptor.)

SF *dehumidification*  
RT desiccants  
RT drying  
RT evaporation  
RT water removal

**dehydrators**

INIS: 2000-04-12; ETDE: 1977-01-28

*Vessels or process systems for removal of liquids from gases or solids by the use of heat, absorbents, or adsorbents.*

(Prior to February 1997 this was a valid ETDE descriptor.)

USE dryers

**DEHYDRIDATION**

INIS: 1999-07-12; ETDE: 1978-06-14

BT1 chemical reactions  
RT hydridation  
RT hydrogen

**DEHYDROCYCLIZATION**

INIS: 1985-06-10; ETDE: 1983-04-28

UF *condensation (organic compounds)*  
BT1 chemical reactions

**dehydroepiandrosterone**

USE hydroxyandrostenone

**dehydrogenases**

2000-04-12

(Prior to January 1981 this was a valid ETDE descriptor, and older material is so indexed.)

USE oxidoreductases

**DEHYDROGENATION**

BT1 chemical reactions  
RT deuteration  
RT hydrogenation

**DEIODINATION**

\*BT1 dehalogenation  
RT iodination

**dekatrons**

USE counting tubes

**DELAWARE**

\*BT1 usa  
RT delaware bay  
RT delaware river  
RT us east coast

**DELAWARE BAY**

INIS: 1992-01-09; ETDE: 1978-09-13

\*BT1 atlantic ocean  
\*BT1 bays  
RT delaware

**DELAWARE RIVER**

\*BT1 rivers  
RT delaware  
RT new jersey  
RT new york

RT pennsylvania

**DELAY CIRCUITS**

BT1 electronic circuits  
RT pulse techniques

**DELAYED ALPHA PARTICLES**

\*BT1 alpha particles  
RT alpha decay  
RT decay

**DELAYED GAMMA RADIATION**

\*BT1 gamma radiation  
RT decay  
RT nuclear reactions  
RT photons

**DELAYED NEUTRON ANALYSIS**

INIS: 1977-01-26; ETDE: 1977-04-13

\*BT1 nondestructive analysis  
\*BT1 nuclear reaction analysis  
RT delayed neutrons  
RT nuclear reaction analyzers

**DELAYED NEUTRON FRACTION**

RT delayed neutrons

**DELAYED NEUTRON PRECURSORS**

UF *precursors (delayed neutron)*  
UF *precursors (delayed neutrons)*  
\*BT1 radioisotopes  
RT beta-delayed neutrons  
RT delayed neutrons

**DELAYED NEUTRONS**

*For fission neutrons only. For delayed neutrons not resulting from fission, see BETA-DELAYED NEUTRONS. (Scope note added in 1985.*

\*BT1 fission neutrons  
RT decay  
RT delayed neutron analysis  
RT delayed neutron fraction  
RT delayed neutron precursors  
RT reactor kinetics

**DELAYED PROTON PRECURSORS**

INIS: 1976-10-29; ETDE: 1976-12-16

UF *precursors (delayed proton)*  
UF *precursors (delayed protons)*  
\*BT1 radioisotopes  
RT delayed protons  
RT neutron-deficient isotopes

**DELAYED PROTONS**

UF *beta-delayed protons*  
\*BT1 protons  
RT beta-plus decay  
RT decay  
RT delayed proton precursors  
RT electron capture decay  
RT neutron-deficient isotopes

**DELAYED RADIATION EFFECTS**

UF *chronic radiation effects*  
UF *delayed radiation injuries*  
UF *late radiation effects*  
\*BT1 biological radiation effects  
RT a-bomb survivors  
RT congenital malformations  
RT dose commitments  
RT early radiation effects  
RT genetic radiation effects  
RT latency period  
RT medical surveillance  
RT neoplasms  
RT radiation syndrome  
RT time dependence

**delayed radiation injuries**

USE delayed radiation effects  
USE radiation injuries

**DELBRUECK SCATTERING**

\*BT1 inelastic scattering

**deletions (chromosomal)**

USE chromosomal aberrations

**delft hoger onderwijs reactor**

USE hor reactor

**DELIGNIFICATION**

INIS: 1992-09-04; ETDE: 1978-06-14

*Removal of lignin by either enzymatic or chemical means.*

RT cellulose  
RT lignin  
RT plant cells  
RT wood

**DELIVERY**

INIS: 1985-12-10; ETDE: 1978-07-05

RT agreements  
RT contracts  
RT materials handling  
RT postal services  
RT transport

**DELORO STELLITE 6**

INIS: 2000-03-29; ETDE: 1984-07-10

UF *stellite 6 (deloro)*

**DELPHI METHOD**

INIS: 2000-04-12; ETDE: 1976-08-04

BT1 forecasting  
RT management  
RT planning  
RT technology assessment

**delphinium**

USE ranunculaceae

**DELTA-1232 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by DELTA-1236 RESONANCES.)

UF *delta-1236 resonances*

\*BT1 delta baryons

**delta-1236 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE delta-1232 baryons

**DELTA-1600 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by DELTA-1650 RESONANCES.)

UF *delta-1650 resonances*

\*BT1 delta baryons

**DELTA-1620 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 delta baryons

**delta-1650 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE delta-1600 baryons

**delta-1670 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE delta-1700 baryons

**DELTA-1700 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by DELTA-1670 RESONANCES.)

UF *delta-1670 resonances*

\*BT1 delta baryons

**delta-1877 resonances**

2000-04-12

(Prior to August 1988 this was a valid ETDE descriptor.)

SEE n\*baryons

**delta-1890 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE delta-1900 baryons

**DELTA-1900 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by DELTA-1890 RESONANCES.)

UF delta-1890 resonances

\*BT1 delta baryons

**DELTA-1905 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 delta baryons

**DELTA-1910 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by DELTA-1910 RESONANCES.)

UF delta-1910 resonances

\*BT1 delta baryons

**delta-1910 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE delta-1910 baryons

**DELTA-1920 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 delta baryons

**DELTA-1930 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 delta baryons

**DELTA-1950 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by DELTA-1950 RESONANCES.)

UF delta-1950 resonances

\*BT1 delta baryons

**delta-1950 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE delta-1950 baryons

**delta-1960 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE delta baryons

**DELTA-2000 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 delta baryons

**DELTA-2150 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 delta baryons

**DELTA-2200 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by DELTA-2200 RESONANCES.)

UF delta-2200 resonances

\*BT1 delta baryons

**delta-2200 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE delta-2200 baryons

**DELTA-2400 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 delta baryons

**DELTA-2420 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by DELTA-2420 RESONANCES.)

UF delta-2420 resonances

\*BT1 delta baryons

**delta-2420 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE delta-2420 baryons

**delta-2850 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE delta baryons

**DELTA-3000 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by DELTA-3230 RESONANCES.)

UF delta-3230 resonances

\*BT1 delta baryons

**delta-3230 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE delta-3000 baryons

**delta-966 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE a0-980 mesons

**DELTA BARYONS**

INIS: 1995-07-17; ETDE: 1988-02-19

UF delta-1960 resonances

UF delta-2850 resonances

\*BT1 n\*baryons

NT1 delta-1232 baryons

NT1 delta-1600 baryons

NT1 delta-1620 baryons

NT1 delta-1700 baryons

NT1 delta-1900 baryons

NT1 delta-1905 baryons

NT1 delta-1910 baryons

NT1 delta-1920 baryons

NT1 delta-1930 baryons

NT1 delta-1950 baryons

NT1 delta-2000 baryons

NT1 delta-2150 baryons

NT1 delta-2200 baryons

NT1 delta-2400 baryons

NT1 delta-2420 baryons

NT1 delta-3000 baryons

**DELTA FUNCTION**

UF dirac delta function

BT1 functions

RT schwinger terms

**DELTA RAYS**

BT1 radiations

RT electrons

RT ionizing radiations

RT recoils

**delta resonances (baryon)**

1976-08-17

USE n\*baryons

**delta resonances (meson)**

2000-04-12

USE mesons

**DEMAGNETIZATION**

INIS: 1977-09-06; ETDE: 1977-10-19

NT1 adiabatic demagnetization

RT magnetic fields

RT magnetism

RT magnetization

RT magnets

**demagnetization (adiabatic)**

2000-04-12

USE adiabatic demagnetization

**DEMAND**

INIS: 1985-12-11; ETDE: 1980-02-11

NT1 energy demand

NT1 land requirements

NT1 lighting requirements

NT1 power demand

NT1 uranium requirements

NT1 water requirements

RT availability

RT energy consumption

RT fuel consumption

RT fuel supplies

RT supply and demand

**DEMAND FACTORS**

1985-12-10

Ratios of the maximum demand to the total connected load.

BT1 dimensionless numbers

RT electric power

RT energy consumption

RT energy demand

RT power demand

RT supply and demand

**demand limiters**

INIS: 1978-08-30; ETDE: 1977-03-08

USE current limiters

**DEMBER EFFECT**

RT charge carriers

**demerol**

USE pethidine

**demesmaekerite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE oxide minerals

USE uranium minerals

**DEMETALLIZATION**

INIS: 1998-11-12; ETDE: 1976-05-13

BT1 separation processes

**DEMINEERALIZATION**

Water softening by use of zeolites or resins to remove cations.

BT1 separation processes

NT1 desalination

RT demineralizers

RT distillation

RT feedwater

RT ion exchange

RT water chemistry

**DEMINEERALIZERS**

RT demineralization

RT reactor cooling systems

RT water

**DEMOCRATIC REPUBLIC OF THE CONGO**

1997-08-20

Until August 1997 this was known as ZAIRE REPUBLIC.

UF congo democratic republic

UF republic of zaire

UF zaire republic

BT1 africa

BT1 developing countries  
NT1 kinshasa

**DEMOCRITUS REACTOR**

*Greek Atomic Energy Commission, Demokritos, Greece.*

UF greek research reactor

UF grr reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**demography**

INIS: 1982-12-03; ETDE: 1980-08-12

*The statistical study of human populations with reference to natality, mortality, migratory movements, age, and sex, among other social, ethnic, and economic factors.*

USE human populations

**DEMOLITION**

NT1 reactor dismantling

**DEMONSTRATION PLANTS**

INIS: 1994-09-13; ETDE: 1977-01-10

*Plants designed to establish the technical and financial feasibility of technologies proven by pilot plant testing.*

RT bench-scale experiments

RT field tests

RT industrial plants

RT pilot plants

RT process development units

**DEMONSTRATION PROGRAMS**

INIS: 1985-12-10; ETDE: 1976-12-16

RT commercialization

RT experiment planning

RT planning

RT program management

RT research programs

RT us national program plans

**DEMULSIFICATION**

INIS: 1992-10-01; ETDE: 1976-04-19

RT demulsifiers

RT emulsification

RT emulsifiers

RT emulsions

**DEMULSIFIERS**

INIS: 1992-10-01; ETDE: 1996-01-09

BT1 additives

RT demulsification

RT emulsification

RT emulsifiers

RT emulsions

**denaturation (nucleic acid)**

USE nucleic acid denaturation

**denaturation (protein)**

USE protein denaturation

**DENATURED FUEL**

INIS: 1978-05-19; ETDE: 1978-01-23

*Fuel which has been diluted or spiked so that it is not suitable for weapons use.*

\*BT1 nuclear fuels

RT proliferation

RT safeguards

**DENDRITES**

BT1 crystals

RT dendritic web growth method

**DENDRITIC WEB GROWTH****METHOD**

INIS: 2000-04-12; ETDE: 1980-02-11

*Self-shaping crystal growth method where the crystal is produced directly from the melt without the use of dies or shapers.*

UF web growth method

BT1 crystal growth methods

RT crystal growth

RT dendrites

RT monocrystals

RT sheets

**denelcor computers**

INIS: 1997-01-28; ETDE: 1984-02-10

*(Until October 1996 this was a valid descriptor.)*

USE computers

**DENITRATION**

BT1 chemical reactions

RT nitric acid

RT reprocessing

**DENITRIFICATION**

1992-03-18

SF hitachi zosen process

BT1 chemical reactions

NT1 combined soxnox processes

NT2 noxso process

NT1 selective catalytic reduction

RT nitrification

RT nitrogen

RT nitrogen compounds

RT shell-uop copper oxide process

RT solinox process

**DENMARK**

BT1 developed countries

\*BT1 scandinavia

RT faeroe islands

RT greenland

RT oecd

**DENSIMETERS**

BT1 measuring instruments

NT1 pycnometers

RT density

RT radiometric gages

RT sedimentometers

RT weight indicators

**DENSITOMETERS**

\*BT1 photometers

RT photometry

**DENSITY**

*For specific weight only; see also descriptors such as CARRIER DENSITY, CURRENT DENSITY, and FLUX DENSITY.*

UF specific gravity

UF specific volume

UF specific weight

BT1 physical properties

NT1 api gravity

NT1 bulk density

RT densimeters

RT fuel densification

RT jigs

RT mass distribution

RT stopping power

RT weight

**density (carrier)**

USE carrier density

**density (charge)**

INIS: 1976-05-05; ETDE: 1976-08-26

USE charge density

**density (current)**

ETDE: 2002-06-13

USE current density

**density (electron)**

USE electron density

**density (energy-level)**

USE energy-level density

**density (energy)**

INIS: 1980-09-12; ETDE: 1979-04-11

USE energy density

**density (flux)**

USE flux density

**density (grain)**

USE grain density

**density (ion)**

INIS: 1976-05-05; ETDE: 2002-06-13

USE ion density

**density (neutron)**

USE neutron density

**density (plasma)**

USE plasma density

**density (population)**

USE population density

**density (power)**

USE power density

**density (proton)**

INIS: 1978-11-24; ETDE: 1980-10-27

USE proton density

**density (spectral)**

INIS: 1975-12-17; ETDE: 2002-06-13

USE spectral density

**DENSITY FUNCTIONAL METHOD**

INIS: 2001-02-28; ETDE: 2001-06-08

\*BT1 variational methods

RT electron correlation

RT functionals

RT many-body problem

RT probability density functions

**density log**

INIS: 2000-04-12; ETDE: 1979-03-27

USE gamma-gamma logging

**DENSITY MATRIX**

BT1 matrices

RT mathematical operators

RT quantum mechanics

**DENTIN**

RT bone tissues

RT teeth

**denting (corrosion)**

INIS: 1979-05-28; ETDE: 1979-09-06

USE corrosion denting

**DENTISTRY**

BT1 medicine

RT caries

RT teeth

**deoxidation**

USE reduction

**DEOXYCYTIDINE**

UF deoxycytidinuria

\*BT1 nucleosides

\*BT1 pyrimidines

RT cytidine



**deoxycytidinuria**

USE deoxycytidine  
USE urine

**deoxycytidylic acid**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE nucleotides

**deoxypentose nucleic acid**

USE dna

**deoxyribonuclease**

USE dna-ase

**deoxyribonucleic acid**

USE dna

**DEOXYRIBOSE**

\*BT1 aldehydes

\*BT1 pentoses

RT ribosides

**DEOXYURIDINE**

\*BT1 antimetabolites

\*BT1 nucleosides

\*BT1 uracils

RT budr

RT fudr

RT iododeoxyuridine

**department of defense**

INIS: 2000-04-12; ETDE: 1977-10-20

USE us dod

**department of interior**

INIS: 2000-04-12; ETDE: 1978-04-06

USE us doi

**department of transportation**

INIS: 2000-04-12; ETDE: 1977-09-20

USE us dot

**DEPARTURE NUCLEATE BOILING**

UF critical heat flow

UF dnb

\*BT1 nucleate boiling

**DEPHENOLIZATION**

INIS: 2000-04-12; ETDE: 1976-03-11

BT1 chemical reactions

RT phenols

**DEPLETED URANIUM**

\*BT1 uranium

RT fuel cycle

**depletion (isotopic)**

USE isotope separation

**depletion (nuclear fuels)**

USE burnup

**depletion allowances**

INIS: 2000-04-12; ETDE: 1978-01-23

*Deductions allowed to federal income tax based on using up natural resources such as fossil fuels.*

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us depletion allowances

**DEPLETION LAYER**

INIS: 1992-05-28; ETDE: 1980-03-04

*An electric double layer formed at the surface of contact between a metal and a semiconductor having different work functions.*

UF blocking layer

UF space-charge layer

SF barrier layer

BT1 layers

RT semiconductor devices

RT semiconductor materials

RT solar cells

RT surface barrier detectors

RT surface barrier transistors

**DEPOLARIZATION**

RT polarization

**DEPOLYMERIZATION**

\*BT1 decomposition

RT molecular weight

RT polymerization

**DEPOSITION**

*For the laying down of a substance on a surface; for deposition of elements and nuclides in tissues of living organisms use RETENTION.*

UF dry deposition

NT1 surface coating

NT2 chemical coating

NT3 chemical vapor deposition

NT3 electrochemical coating

NT4 anodization

NT2 cladding

NT2 diffusion coating

NT2 dip coating

NT3 hot dipping

NT2 electrodeposition

NT3 electroplating

NT2 energy beam deposition

NT2 physical vapor deposition

NT2 plating

NT3 electroplating

NT3 vapor plating

NT2 screen printing

NT2 spin-on coating

NT2 spray coating

NT3 flame spraying

NT3 plasma arc spraying

NT2 vacuum coating

RT adsorption

RT deposits

RT fouling

RT masking

RT precipitation

RT retention

RT scaling

RT sputtering

RT thin films

**deposition (gravitational)**

ETDE: 2002-06-13

USE sedimentation

**DEPOSITS**

RT antifoulants

RT coatings

RT deposition

RT fouling

**deposits (geological)**

USE geologic deposits

**DEPRECIATION**

INIS: 2000-06-27; ETDE: 1979-09-26

RT economics

RT financial incentives

RT financing

**depressants (central nervous system)**

INIS: 1993-11-05; ETDE: 2002-06-13

USE central nervous system depressants

**DEPRESSURIZATION**

RT depressurization systems

RT pressure vessels

RT pressurization

RT reactor safety

**DEPRESSURIZATION SYSTEMS**

1985-12-11

RT depressurization

RT eccs

RT pressure vessels

RT reactor protection systems

**DEPTH***For elevation use LEVELS.*

UF depth distribution

BT1 dimensions

NT1 depth 1-3 km

NT1 depth 3-6 km

NT1 depth 6-9 km

NT1 depth 9-12 km

**DEPTH 1-3 KM**

INIS: 2000-04-12; ETDE: 1978-12-20

\*BT1 depth

**DEPTH 3-6 KM**

INIS: 2000-04-12; ETDE: 1978-12-20

\*BT1 depth

**DEPTH 6-9 KM**

INIS: 2000-04-12; ETDE: 1978-12-20

\*BT1 depth

**DEPTH 9-12 KM**

INIS: 2000-04-12; ETDE: 1978-12-20

\*BT1 depth

**depth distribution**

INIS: 1976-09-06; ETDE: 2002-06-13

USE depth

USE spatial distribution

**DEPTH DOSE DISTRIBUTIONS**

UF depth doses

\*BT1 spatial dose distributions

RT buildup

RT isodose curves

RT phantoms

RT radiotherapy

RT range

**depth doses**

USE depth dose distributions

**derby zpr neptune**

USE neptune reactor

**DEREGULATION**

INIS: 1985-12-10; ETDE: 1978-01-23

RT economic policy

RT economics

RT government policies

RT natural gas

RT petroleum

RT pricing regulations

RT regulations

RT us natural gas policy act

**DERIVATIZATION**

INIS: 1992-04-27; ETDE: 1980-11-08

*Conversion of a chemical compound into a derivative, usually for the purpose of identification.*

BT1 chemical reactions

RT chemical analysis

RT structural chemical analysis

**DERMATITIS**

\*BT1 skin diseases

NT1 radiodermatitis

**DESALINATION**

*Any process for making potable water from sea water or other saline waters.*

\*BT1 demineralization

RT desalination plants

RT desalination reactors

RT distillation

RT dual-purpose power plants  
 RT evaporators  
 RT freezing out  
 RT ion exchange  
 RT salinity  
 RT salts  
 RT seawater

**DESALINATION PLANTS**

INIS: 1986-04-03; ETDE: 1977-08-24

BT1 industrial plants  
 RT desalination  
 RT desalination reactors  
 RT dual-purpose power plants  
 RT seawater

**DESALINATION REACTORS**

BT1 reactors  
 NT1 bn-350 reactor  
 RT desalination  
 RT desalination plants  
 RT power reactors

**DESCALING**

BT1 surface finishing  
 RT scale control  
 RT scaling  
 RT scrubbing  
 RT shot peening  
 RT surface cleaning

**desertron**

INIS: 1985-01-18; ETDE: 1984-03-06  
 USE superconducting super collider

**DESERTS**

BT1 arid lands  
 RT climates  
 RT sand  
 RT terrestrial ecosystems

**DESICCANTS**

1985-12-10  
 RT dehumidifiers  
 RT dehydration  
 RT dryers  
 RT drying  
 RT resins  
 RT zeolites

**DESIGN**

1991-10-08

For conceptual design only; use of a more specific descriptor is recommended.

UF design reports  
 NT1 computer-aided design  
 RT diagrams  
 RT engineering drawings  
 RT feasibility studies  
 RT planning  
 RT specifications

**design (technical drawings)**

ETDE: 2002-06-13

USE diagrams

**design (technical specifications)**

INIS: 1993-11-05; ETDE: 2002-06-13

USE specifications

**DESIGN BASIS ACCIDENTS**

\*BT1 reactor accidents  
 NT1 atws  
 NT1 maximum credible accident

**design reports**

2003-10-21

USE design  
 USE safety reports

**desiodothyroxine**

USE thyronine

**desonox process**

INIS: 2000-04-12; ETDE: 1990-05-15

USE combined soxnox processes

**desorex process**

2000-04-12

(Prior to September 1994, this was a valid

ETDE descriptor.)

USE desulfurization

**DESORPTION**

BT1 sorption  
 RT adsorption  
 RT degassing  
 RT fission product release

**desoxycorticosterone acetate**

1996-10-23

(Prior to March 1997 DOCA was used for this concept in ETDE.)

USE mineralocorticoids

**desoxyribonucleic acid**

USE dna

**destructive chemical analysis**

INIS: 1976-10-07; ETDE: 2002-06-13

(Prior to December 1990, this concept was indexed by DESTRUCTIVE ANALYSIS which is no longer a valid descriptor.)

USE chemical analysis

**DESTRUCTIVE DISTILLATION**

INIS: 2000-04-12; ETDE: 1975-10-28

\*BT1 decomposition

\*BT1 distillation

RT pyrolysis

RT retorting

**DESTRUCTIVE TESTING**

\*BT1 materials testing

NT1 charpy test

RT impact tests

RT mechanical properties

RT post-irradiation examination

**destrugas process**

INIS: 2000-04-12; ETDE: 1976-11-01

Gasification in complete absence of air with indirect heating of the pyrolysis chamber with char and pyrolysis gas (fuel gas) as the only products.

(Prior to February 1995, this was a valid

ETDE descriptor.)

SEE waste processing

**DESULFOVIBRIO**

INIS: 1993-06-08; ETDE: 1981-11-10

Genus of strict anaerobes which reduce sulfates to hydrogen sulfide.

\*BT1 sulfate-reducing bacteria

**DESULFURIZATION**

UF ai aqueous carbonate process

UF alkazid process

UF ames wet oxidation process

UF amisol process

UF amoco cba process

UF amoco sulfur recovery process

UF aquaclaus process

UF aqueous carbonate process

UF as recycling process

UF atomics international aqueous

carbonate process

UF bergbauforschung-foster wheeler process

UF bf-wf process

UF bom-erda process

UF carl still process

UF cat-ox process

UF catacarb carbon dioxide removal process

UF catacarb process

UF catalytic-ifp ammonia scrubbing process

UF cba process

UF chemico process

UF chemsweet process

UF citrex process

UF cleanair process

UF conoco process

UF czd process

UF dayy s-h process

UF desorex process

UF diamox process

UF dowa process

UF ferrox process

UF fluor econamine process

UF fluor solvent process

UF fulham-simon-carves process

UF funaks process

UF ge process

UF girdler-girbotol process

UF gravichem process

UF grillo process

UF haines process

UF hazen process

UF hipure process

UF hirohax process

UF hoelter process

UF ici process

UF ifp process

UF igt dehydrodesulfurization process

UF ionics electrolytic regeneration process

UF jecco process

UF koppers vacuum carbonate process

UF kureha acetate process

UF kvb process

UF lucas process

UF magnex process

UF mining research method

UF molten carbonate process

UF petit process

UF phosphate process

UF pircon-peck process

UF pittsburgh oxydesulfurization process

UF purasiv s process

UF reinluft process

UF seaboard process

UF snpa-dea process

UF stauffer aquaclaus process

UF sulfox process

UF thylox process

UF topsoe-snpa process

UF tyco process

UF uncracking/hds process

UF westvaco process

SF syracuse chemical comminution process

SF townsend process

BT1 chemical reactions

NT1 adip process

NT1 alkalized alumina process

NT1 ammonia-ammonium bisulfate process

NT1 battelle hydrothermal coal process

NT1 beavon process

NT1 benfield process

NT1 bergbauforschung process

NT1 cabf process

NT1 cea-adl dual alkali process

NT1 chiyoda thoroughbred process

NT1 citrate process

NT1 claus process

NT1 cng process

NT1 combined soxnox processes

NT2 noxso process

NT1 consol fgd process

**NT1** fmc double alkali process  
**NT1** giammarco vetrocoke sulfur process  
**NT1** girbotol process  
**NT1** gravimelt process  
**NT1** gulf hds process  
**NT1** holmes-stretford process  
**NT1** jpl process  
**NT1** ledgemont process  
**NT1** lime-limestone wet scrubbing processes  
**NT2** bischoff process  
**NT1** magnesium slurry scrubbing process  
**NT1** meyers process  
**NT1** molecular sieve process  
**NT1** otto process  
**NT1** penelec process  
**NT1** perox process  
**NT1** purisol process  
**NT1** rectisol process  
**NT1** resox process  
**NT1** ric process  
**NT1** saarberg-holter process  
**NT1** scot process  
**NT1** selexol process  
**NT1** shell-uop copper oxide process  
**NT1** solinox process  
**NT1** sorbent injection processes  
**NT1** soxal process  
**NT1** stone and webster ionics process  
**NT1** stretford process  
**NT1** sulf-x process  
**NT1** sulfiban process  
**NT1** sulfinol process  
**NT1** sulfreen process  
**NT1** takahax process  
**NT1** thiosorbic process  
**NT1** trw process  
**NT1** ucap process  
**NT1** unisulf process  
**NT1** vacuum carbonate process  
**NT1** w-l sulfur dioxide recovery process  
**NT1** walther process  
*RT* air pollution abatement  
*RT* catalytic hydrosolvation process  
*RT* dry scrubbers  
*RT* hot gas cleanup  
*RT* rhodococcus  
*RT* sulfate-reducing bacteria  
*RT* sulfur-oxidizing bacteria  
*RT* thiobacillus oxidans  
*RT* us clean coal technology program

**DESY**

*Deutsches Elektronen Synchrotron.*  
*UF* hamburg synchrotron  
 \*BT1 synchrotrons

**DETAILED BALANCE PRINCIPLE**

\*BT1 t invariance  
*RT* cross sections  
*RT* hamiltonians  
*RT* nuclear reactions  
*RT* s matrix  
*RT* scattering

**DETECTION**

*INIS: 1983-09-06; ETDE: 1979-03-28*  
**NT1** boiling detection  
**NT1** crime detection  
**NT1** failed element detection  
**NT1** fuel motion detection  
**NT1** nuclear explosion detection  
**NT1** radiation detection  
**NT2** charged particle detection  
**NT3** acoustic detection  
**NT3** alpha detection  
**NT3** beta detection  
**NT3** electron detection  
**NT3** ion detection  
**NT3** muon detection

**NT3** positron detection  
**NT3** proton detection  
**NT2** cosmic ray detection  
**NT2** fission fragment detection  
**NT2** gamma detection  
**NT2** kaon detection  
**NT2** neutrino detection  
**NT2** neutron detection  
**NT2** pion detection  
**NT2** x-ray detection  
**NT1** seismic detection  
**NT2** in-country detection  
*RT* control  
*RT* intrusion detection systems  
*RT* monitoring  
*RT* motion detection systems  
*RT* nuclear materials diversion  
*RT* nuclear materials management  
*RT* safeguards

**detection (failed element)**

2000-04-12  
 USE failed element detection

**detection (nuclear explosions)**

2000-04-12  
 USE nuclear explosion detection

**detection (radiation)**

2000-04-12  
*For the detection of elementary particles and radiations refer to narrower terms to radiation detection.*  
 USE radiation detection

**detection (seismic)**

2000-04-12  
 USE seismic detection

**detection limits**

*INIS: 1976-06-23; ETDE: 2002-06-13*  
 USE sensitivity

**detectors (radiation)**

USE radiation detectors

**DETERGENTS**

*SF* chemicals  
 \*BT1 emulsifiers  
 \*BT1 wetting agents  
**NT1** pluronics  
*RT* cleaning  
*RT* decontamination  
*RT* soaps  
*RT* xenobiotics

**determination (chemical)**

*ETDE: 2002-06-13*  
 USE chemical analysis

**DETERMINISTIC ESTIMATION**

2003-12-17  
*Analytical technique for calculation of unknown quantities and the uncertainty associated with the deterministic estimates of those quantities.*  
*UF* deterministic safety assessment  
**BT1** calculation methods  
*RT* forecasting  
*RT* probabilistic estimation  
*RT* risk assessment  
*RT* safety analysis

**deterministic safety assessment**

2003-12-17  
 USE deterministic estimation  
 USE risk assessment

**DETONATION LIMITS**

*INIS: 2000-06-27; ETDE: 1977-01-28*  
*Bounds on regions of stable detonation.*  
*RT* chemical explosives

**DETONATION WAVES**

*INIS: 1985-12-11; ETDE: 1976-08-25*  
*Shock waves caused by release of chemical energy through chemical reactions.*  
**BT1** shock waves  
*RT* combustion  
*RT* combustion waves  
*RT* explosions  
*RT* ignition

**detonations**

(Prior to March 1996 this was a valid ETDE descriptor.)  
 USE explosions

**DETONATORS**

(From October 1979 till February 1997 FUSES was a valid ETDE descriptor.)  
*UF* fuses (detonators)  
*UF* fuzes  
*RT* exploding wires  
*RT* explosions

**DETOXIFICATION**

*INIS: 1984-04-04; ETDE: 1981-03-16*  
*RT* biochemical reaction kinetics  
*RT* decontamination  
*RT* hazardous materials  
*RT* toxic materials  
*RT* toxicity  
*RT* toxins

**DETRITUS**

*INIS: 1993-06-03; ETDE: 1977-08-09*  
*Loose material (as rock fragments or organic particles) that results directly from disintegration.*  
*RT* biodegradation  
*RT* environmental materials  
*RT* sediments

**DETROIT RIVER**

2000-04-12  
 \*BT1 rivers  
*RT* michigan

**deus**

*INIS: 2000-04-12; ETDE: 1978-11-14*  
*Dual energy use systems. Term similar to cogeneration, especially for methods using both heat and electric power when both are produced simultaneously and in significant quantities.*  
 (Prior to February 1997 this was a valid descriptor.)  
 USE cogeneration

**DEUTERATION**

**BT1** chemical reactions  
*RT* dehydrogenation  
*RT* hydrogenation

**DEUTERIDES**

1986-03-04  
 \*BT1 deuterium compounds  
**NT1** hydrogen deuteride  
**NT1** lithium deuterides

**DEUTERIUM**

*UF* hydrogen 2  
 \*BT1 hydrogen isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 stable isotopes  
*RT* deuterons  
*RT* hydrogen deuteride  
*RT* thermonuclear fuels

**DEUTERIUM COMPOUNDS**

1996-06-19  
*UF* dto  
**BT1** hydrogen compounds

- NT1 deuterides
- NT2 hydrogen deuteride
- NT2 lithium deuterides
- NT1 deuterium tritide
- NT1 heavy water

**deuterium hydride**

- USE hydrogen deuteride

**DEUTERIUM IONS**

1996-03-04

- \*BT1 ions
- RT d-t operation

**deuterium-lithium high flux neutron source facility**

INIS: 1994-07-01; ETDE: 1977-10-20

- USE neutron source facilities

**deuterium moderated pile low energy**

1993-11-05

- USE dimple reactor

**deuterium oxide**

INIS: 1976-10-07; ETDE: 1976-11-01

- USE heavy water

**DEUTERIUM TARGET**

- UF deuterium-deuteron interactions
- UF deuterium target
- UF lepton-deuteron interactions
- UF meson-deuteron interactions
- BT1 targets

**DEUTERIUM TRITIDE**

INIS: 1976-02-05; ETDE: 1979-05-31

- \*BT1 deuterium compounds
- \*BT1 tritides
- RT muon-catalyzed fusion

**DEUTERON BEAMS**

- \*BT1 ion beams
- RT deuterons

**deuteron-deuteron interactions**

INIS: 2000-04-12; ETDE: 1979-09-06

- USE deuterium target
- USE deuteron reactions

**DEUTERON MICROPROBE ANALYSIS**

INIS: 1981-07-08; ETDE: 1981-08-04

- BT1 microanalysis
- \*BT1 nondestructive analysis
- RT deuteron probes

**DEUTERON PROBES**

INIS: 1981-07-08; ETDE: 1981-08-04

- BT1 probes
- RT deuteron microprobe analysis
- RT deuteron sources
- RT ion probes

**DEUTERON REACTIONS**

- UF deuterium-deuteron interactions
- \*BT1 charged-particle reactions
- NT1 antideuteron reactions

**DEUTERON SOURCES**

- \*BT1 particle sources
- RT deuteron probes
- RT deuterons

**DEUTERON SPECTRA**

- BT1 spectra
- RT deuterons

**deuteron target**

ETDE: 2002-06-13

- USE deuterium target

**DEUTERONS**

1999-03-01

- BT1 charged particles
- NT1 antideuterons
- RT deuterium
- RT deuteron beams
- RT deuteron sources
- RT deuteron spectra

**DEVELOPED COUNTRIES**

INIS: 1982-12-03; ETDE: 1978-03-03

UF industrialized countries

- NT1 australia
- NT2 new south wales
- NT2 northern territory
- NT2 queensland
- NT2 south australia
- NT2 tasmania
- NT2 victoria
- NT2 western australia
- NT1 austria
- NT1 belgium
- NT1 canada
- NT2 alberta
- NT2 british columbia
- NT2 manitoba
- NT2 new brunswick
- NT2 newfoundland
- NT2 northwest territories
- NT2 nova scotia
- NT2 nunavut
- NT2 ontario
- NT3 chalk river
- NT3 deep river
- NT3 elliot lake
- NT2 prince edward island
- NT2 quebec
- NT2 saskatchewan
- NT2 yukon territory
- NT1 denmark
- NT1 federal republic of germany
- NT1 finland
- NT1 france
- NT2 reunion island
- NT1 holy see
- NT1 ireland
- NT1 italy
- NT2 appennines
- NT2 sicily
- NT1 japan
- NT2 hachimantai
- NT2 hirosima
- NT2 nagasaki
- NT1 luxembourg
- NT1 monaco
- NT1 netherlands
- NT1 new zealand
- NT1 norway
- NT1 san marino
- NT1 south africa
- NT2 transvaal
- NT1 sweden
- NT1 switzerland
- NT1 united kingdom
- NT1 usa
- NT2 alabama
- NT2 alaska
- NT2 american samoa
- NT2 arizona
- NT2 arkansas
- NT2 california
- NT3 brawley geothermal field
- NT3 coso hot springs
- NT3 los angeles
- NT2 colorado
- NT3 mahogany zone
- NT3 sand wash basin
- NT2 connecticut
- NT2 delaware

- NT2 florida
- NT3 cape kennedy
- NT2 georgia
- NT3 atlanta
- NT2 great basin
- NT2 hawaii
- NT2 idaho
- NT2 illinois
- NT3 chicago
- NT2 indiana
- NT2 iowa
- NT2 kansas
- NT2 kentucky
- NT2 louisiana
- NT2 maine
- NT2 maryland
- NT2 massachusetts
- NT2 michigan
- NT2 minnesota
- NT2 mississippi
- NT2 missouri
- NT2 montana
- NT3 powder river basin
- NT2 nebraska
- NT2 nevada
- NT3 steamboat springs
- NT3 tonopah test range
- NT2 new hampshire
- NT2 new jersey
- NT2 new mexico
- NT3 los alamos
- NT2 new york
- NT3 new york city
- NT2 north carolina
- NT2 north dakota
- NT2 ohio
- NT3 cleveland
- NT2 oklahoma
- NT2 oregon
- NT3 mt hood
- NT2 pennsylvania
- NT3 pittsburgh
- NT2 puerto rico
- NT2 rhode island
- NT2 south carolina
- NT2 south dakota
- NT3 table mountain area
- NT2 tennessee
- NT3 chattanooga
- NT3 oak ridge
- NT2 texas
- NT2 us east coast
- NT2 us gulf coast
- NT2 us west coast
- NT2 utah
- NT3 roosevelt hot springs
- NT2 vermont
- NT2 virgin islands
- NT2 virginia
- NT2 washington
- NT3 richland
- NT2 washington dc
- NT2 west virginia
- NT2 wisconsin
- NT2 wyoming
- NT3 powder river basin
- NT3 rock springs sites
- NT3 washakie basin
- RT developing countries
- RT economic development
- RT oil-exporting countries
- RT technology utilization

**DEVELOPERS**

1996-09-06

- UF amidol
- SF chemicals
- NT1 pyrocatechol
- NT1 pyrogallol

NT1 resorcinol  
RT photography

**DEVELOPING COUNTRIES**

INIS: 1997-06-05; ETDE: 1976-11-29

NT1 afghanistan  
NT1 albania  
NT1 algeria  
NT1 angola  
NT1 argentina  
NT2 mendoza  
NT1 bahama islands  
NT1 bahrain  
NT1 bangladesh  
NT1 belize  
NT1 bhutan  
NT1 bolivia  
NT2 chacaltaya  
NT1 botswana  
NT1 brazil  
NT1 bulgaria  
NT1 burkina faso  
NT1 burundi  
NT1 cameroon  
NT1 central african republic  
NT1 chad  
NT1 chile  
NT1 colombia  
NT1 congo peoples republic  
NT2 brazzaville  
NT1 costa rica  
NT1 cote d'ivoire  
NT1 cuba  
NT1 czech republic  
NT1 democratic republic of the congo  
NT2 kinshasa  
NT1 dominican republic  
NT1 ecuador  
NT1 egyptian arab republic  
NT1 el salvador  
NT1 eritrea  
NT1 ethiopia  
NT1 gabon  
NT1 gambia  
NT1 ghana  
NT1 greece  
NT1 guatemala  
NT1 guyana  
NT1 haiti  
NT1 honduras  
NT1 hungary  
NT1 iceland  
NT1 india  
NT1 indonesia  
NT1 iran  
NT1 iraq  
NT1 israel  
NT1 jamaica  
NT1 jordan  
NT1 kazakhstan  
NT1 kenya  
NT1 kuwait  
NT1 laos  
NT1 lebanon  
NT1 lesotho  
NT1 liberia  
NT1 libyan arab jamahiriya  
NT1 madagascar  
NT2 malagasy republic  
NT1 malawi  
NT1 malaysia  
NT1 mali  
NT1 mauritania  
NT1 mauritius  
NT1 mexico  
NT1 montenegro  
NT1 morocco  
NT1 mozambique  
NT1 myanmar

NT1 nepal  
NT1 nicaragua  
NT1 niger  
NT1 nigeria  
NT1 north korea  
NT1 oman  
NT1 pakistan  
NT1 panama  
NT1 paraguay  
NT1 peru  
NT1 philippines  
NT1 poland  
NT1 portugal  
NT2 azores islands  
NT1 qatar  
NT1 republic of korea  
NT1 republic of seychelles  
NT1 romania  
NT1 russia  
NT1 rwanda  
NT1 saint lucia  
NT1 saint vincent and the grenadines  
NT1 saudi arabia  
NT1 senegal  
NT1 serbia  
NT1 sierra leone  
NT1 singapore  
NT1 slovakia  
NT1 somalia  
NT1 spain  
NT2 canary islands  
NT1 sri lanka  
NT1 sudan  
NT1 surinam  
NT1 swaziland  
NT1 syria  
NT1 thailand  
NT1 the former yugoslav republic of macedonia  
NT1 togo  
NT1 tunisia  
NT1 turkey  
NT1 uganda  
NT1 united republic of tanzania  
NT1 uruguay  
NT1 venezuela  
NT1 viet nam  
NT1 yemen  
NT1 zambia  
NT1 zimbabwe  
NT2 southern rhodesia  
RT developed countries  
RT industry  
RT input-output analysis  
RT oil-exporting countries  
RT oil-importing countries  
RT rural energy centers  
RT technology transfer

**devices**

1982-12-06  
USE equipment

**DEVOLATILIZATION**

INIS: 1993-02-18; ETDE: 1978-02-14  
RT volatile matter  
RT volatility

**DEVONIAN PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19  
\*BT1 paleozoic era

**devonian shales**

INIS: 1992-07-22; ETDE: 1980-10-27  
USE black shales

**DEW POINT**

INIS: 1976-10-07; ETDE: 1975-10-01  
The temperature at which a vapor begins to condense.  
\*BT1 transition temperature

RT humidity  
RT phase transformations  
RT vapor condensation

**dewar flasks**

INIS: 1985-07-18; ETDE: 1977-06-30  
(Prior to August 1985 this was a valid descriptor.)  
USE dewars

**DEWARs**

INIS: 1985-07-18; ETDE: 1976-08-24  
(Prior to August 1985 DEWAR FLASKS was used.)  
UF dewar flasks  
BT1 containers  
RT cryogenics

**dewatering**

INIS: 2000-04-12; ETDE: 1977-06-24  
USE water removal

**DEWATERING EQUIPMENT**

INIS: 1994-06-27; ETDE: 1985-04-09  
BT1 concentrators  
RT dryers  
RT water removal

**DEWAXING**

INIS: 2000-04-12; ETDE: 1975-10-01  
UF paraffin removal  
BT1 separation processes  
RT refining  
RT scrapers  
RT waxes

**DEWINDTITE**

2000-04-12  
\*BT1 uranium minerals  
RT lead phosphates  
RT uranium phosphates

**DEXAMETHASONE**

\*BT1 glucocorticoids

**DEXTRAN**

\*BT1 blood substitutes  
\*BT1 polysaccharides

**DEXTRIN**

UF starch gum  
\*BT1 polysaccharides

**dextro and levo optical isomers**

INIS: 2000-04-12; ETDE: 1976-02-23  
USE enantiomorphs

**dextronic acid**

USE gluconic acid

**dfa**

USE deferoxamine

**dfr-350 reactor**

USE dfr reactor

**DFR REACTOR**

UF dfr-350 reactor  
UF downreay fast reactor  
\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 lmfr type reactors  
\*BT1 power reactors

**DHDECMP**

INIS: 1981-07-06; ETDE: 1980-06-23  
Dihexyl-n, n-diethylcarbamylyl methylenephosphonate.  
UF dihexyl-n,n-diethylcarbamylyl-methylenephosphonate  
\*BT1 phosphonic acid esters  
RT organic solvents

**DHRUVA REACTOR**

INIS: 1986-03-04; ETDE: 1989-06-23

Bhabha Atomic Research Centre, Trombay, Maharashtra, India.

(This reactor was indexed as TROMBAY R-5 REACTOR by INIS prior to March 1986 and by ETDE prior to June 1989.)

UF *trombay r-5 reactor*

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

**di-(2-propyl) ether**

USE isopropyl ether

**di-2-ethylhexylphosphoric acid**

USE hdehp

**DIABASES**

INIS: 2000-04-12; ETDE: 1981-11-10

\*BT1 basalt

**DIABATIC APPROXIMATION**

\*BT1 approximations

RT adiabatic approximation

RT electron-promotion model

RT quantum mechanics

RT scattering

**DIABETES MELLITUS**

\*BT1 endocrine diseases

\*BT1 metabolic diseases

RT insulin

RT metabolism

**DIABLO CANYON-1 REACTOR**

Pacific Gas and Electric Co., Avila Beach, California, USA.

UF *pacific gas diablo canyon-1 reactor*

\*BT1 pwr type reactors

**DIABLO CANYON-2 REACTOR**

Pacific Gas and Electric Co., Avila Beach, California, USA.

UF *pacific gas diablo canyon-2 reactor*

\*BT1 pwr type reactors

**diacetylmorphine**

USE heroin

**DIAGENESIS**

*Any change occurring within sediments subsequent to deposition and before complete lithification that alters the mineral content and physical properties of the sediments.*

RT catagenesis

RT coalification

RT origin

RT petrogenesis

RT sediments

**DIAGNOSIS**

UF *radiodiagnosis (radionuclides)*

RT diagnostic techniques

RT diagnostic uses

RT labelled compounds

RT medical examinations

RT medicine

RT nuclear medicine

RT radiology

RT radiopharmaceuticals

RT scintiscanning

RT symptoms

RT tracer techniques

**DIAGNOSTIC TECHNIQUES**

NT1 autopsy

NT1 biomedical radiography

NT2 fluoroscopy

NT2 ionographic imaging

NT2 osteodensitometry

NT2 renography

NT1 biopsy

NT1 cardiography

NT2 radiocardiography

NT1 electroencephalography

NT1 nmr imaging

NT1 photon emission scanning

NT2 ecat scanning

NT1 photon transmission scanning

NT1 radioimmunodetection

NT2 radioimmunoassay

NT2 radioimmunoscintigraphy

NT1 scintiscanning

NT2 radioimmunoscintigraphy

NT1 tomography

NT2 compton scattering tomography

NT2 computerized tomography

NT3 cat scanning

NT3 emission computed tomography

NT4 ecat scanning

NT4 positron computed tomography

NT4 single photon emission computed tomography

NT3 photon computed tomography

NT3 proton computed tomography

NT2 grazing incidence tomography

NT1 ultrasonography

RT autoradiography

RT blood-plasma clearance

RT diagnosis

RT diagnostic uses

RT electrocardiograms

RT medicine

RT nuclear medicine

RT radioisotope generators

RT radiology

RT tracer techniques

RT x-ray equipment

**DIAGNOSTIC USES**

INIS: 1993-07-21; ETDE: 1978-08-07

*For medical applications.*

BT1 uses

RT clinical trials

RT diagnosis

RT diagnostic techniques

RT medicine

**diagnostics (fusion)**

INIS: 1998-10-28; ETDE: 1998-12-18

USE plasma diagnostics

**DIAGRAMS**

1996-01-24

*FOR SIGNIFICANT DIAGRAMS, CHARTS, GRAPHS, AND DRAWINGS ONLY.*

UF *charts*

UF *curves*

UF *design (technical drawings)*

SF *graphs*

BT1 information

NT1 bragg curve

NT1 electrocardiograms

NT1 engineering drawings

NT1 fermi plot

NT1 feynman diagram

NT1 flowsheets

NT1 goldstone diagrams

NT1 hertzprung-russell diagram

NT1 mollier diagrams

NT1 nomograms

NT1 nyquist diagrams

NT1 optical depth curve

NT2 spectroscopic curve of growth

NT1 phase diagrams

NT1 s-n diagram

NT1 scatterplots

NT2 argand diagrams

NT2 dalitz plot

NT2 prism plot

NT1 sun charts

NT1 thermochemical diagrams

NT1 young diagram

RT computer graphics

RT computer-graphics devices

RT design

RT maps

RT pattern recognition

**DIAL PAINTERS**

BT1 personnel

RT luminous paints

**DIALYSIS**

BT1 separation processes

NT1 electro dialysis

RT colloids

RT diffusion

RT mass transfer

RT membranes

RT permeability

RT proteins

**DIAMAGNETISM**

BT1 magnetism

NT1 plasma diamagnetism

RT de haas-van alphen effect

**DIAMEX PROCESS**

INIS: 1998-06-30; ETDE: 1998-10-20

\*BT1 reprocessing

RT amides

RT solvent extraction

**diaminobiphenyl**

USE benzidine

**diaminocaproic acid**

USE lysine

**diaminocyclohexanetetraacetic acid**

1995-02-16

USE dcta

**diamond counters**

USE crystal counters

**diamond drilling equipment**

INIS: 2000-04-12; ETDE: 1977-08-09

USE drilling equipment

**DIAMONDS**

\*BT1 carbon

BT1 minerals

**diamox process**

INIS: 2000-04-12; ETDE: 1979-01-30

*Ammonia is used as adsorbent and stripped hydrogen sulfide is fed to Claus process. In this process, ammonia is used as adsorbent and stripped hydrogen sulfide is fed to a Claus process.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE desulfurization

**diamyl sulfoxide**

USE dpso

**dianabol**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE androgens

USE hydroxy compounds

USE ketones

**diantipyrylmethane**

INIS: 1984-04-04; ETDE: 1984-05-10

USE pyrazolines

**DIAPHORASE**

INIS: 2000-04-03; ETDE: 1981-01-12

- UF diaphorases  
 UF flavoprotein enzymes  
 \*BT1 isoalloxazines  
 \*BT1 oxidoreductases

**diaphorases**

2000-04-03  
 (Until July 1996 this was a valid descriptor.)  
 USE diaphorase

**DIAPHRAGM**

INIS: 1980-09-12; ETDE: 1980-10-07  
 Partition separating the chest and abdominal cavities.

- BT1 muscles  
 \*BT1 organs  
 RT abdomen  
 RT chest  
 RT lungs  
 RT respiration

**diaphragms (thermonuclear device)**

2000-04-12  
 USE limiters

**DIARRHEA**

- BT1 symptoms  
 RT constipation  
 RT digestive system diseases  
 RT enteritis  
 RT intestines

**DIATOMACEOUS EARTH**

1992-11-03  
 A white, yellow, or light gray siliceous earth composed predominantly of the opaline frustules of diatoms.

- UF kieselguhr  
 RT adsorbents  
 RT diatoms  
 RT filters

**DIATOMS**

INIS: 1991-12-11; ETDE: 1976-05-13  
 Algae of the class Bacillariophyceae.  
 (Prior to January 1992, this was indexed by ALGAE and PLANKTON.)

- \*BT1 chromophycota  
 RT diatomaceous earth  
 RT phytoplankton

**DIAZO COMPOUNDS**

- \*BT1 organic nitrogen compounds  
 NT1 pyridylazonaphthol  
 NT1 pyridylazoresorcinol  
 NT1 thorin  
 RT azo dyes  
 RT dyes

**DIAZOTIZATION**

- BT1 chemical reactions  
 RT organic nitrogen compounds

**dibaryon resonances**

INIS: 1987-12-21; ETDE: 1979-02-27  
 (Prior to December 1987 this was a valid descriptor.)  
 USE dibaryons

**DIBARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19  
 (Prior to December 1987 this concept was indexed by DIBARYON RESONANCES.)

- UF baryon number 2 resonances  
 UF dibaryon resonances  
 \*BT1 baryons  
 NT1 dineutrons  
 NT1 diprotons  
 NT1 lambda-n-2130 dibaryons  
 NT1 nn-2170 dibaryons

NT1 nn-2250 dibaryons

**dibenzopyrroles**

USE carbazoles

**diborane**

USE boranes

**dibutyl ether**

USE butyl ether

**dibutyl phosphate**

USE dbp

**DICARBOXYLIC ACIDS**

1996-07-18

- UF beryllon  
 UF dsnadns  
 \*BT1 carboxylic acids  
 NT1 adipic acid  
 NT1 fumaric acid  
 NT1 glutaric acid  
 NT1 itaconic acid  
 NT1 maleic acid  
 NT1 malonic acid  
 NT1 oxalic acid  
 NT1 phthalic acid  
 NT1 sebacic acid  
 NT1 succinic acid  
 NT1 terephthalic acid  
 RT imides

**DICENTRIC CHROMOSOMES**

- UF dicentrics  
 BT1 chromosomes  
 RT chromosomal aberrations

**dicentric**

USE dicentric chromosomes

**dichlorodiethylamine**

USE nitrogen mustard

**dichlorodiphenyltrichloroethane**

USE ddt

**dichloromethane**

1982-02-09

USE methylene chloride

**DICHROISM**

- NT1 magnetic circular dichroism  
 RT color  
 RT optical properties

**DICHROMATES**

INIS: 1983-10-14; ETDE: 1983-11-09  
 Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

- \*BT1 chromium compounds  
 BT1 oxygen compounds  
 RT chromium oxides

**dicotyledons**

INIS: 2000-04-12; ETDE: 1988-12-21  
 USE magnoliopsida

**DICTIONARIES**

INIS: 1994-09-29; ETDE: 1976-11-01  
 UF glossaries  
 BT1 document types  
 RT machine translations

**DICTYOCAULUS**

- \*BT1 nematodes  
 BT1 parasites  
 RT parasitic diseases  
 RT sheep

**DICTYOPTERA**

INIS: 1993-07-14; ETDE: 1981-06-16

- \*BT1 insects  
 NT1 cockroaches

**dictyosomes**

INIS: 2000-04-12; ETDE: 1991-08-21  
 USE golgi complexes

**dicumarol**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE anticoagulants

**DIDERICHITE**

2000-04-12  
 \*BT1 carbonate minerals  
 \*BT1 uranium minerals  
 RT uranium carbonates

**dido-juelich reactor**

USE frj-2 reactor

**DIDO REACTOR**

UKAEA, Harwell, United Kingdom.  
 UF ukaea-dido reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**diel variations**

INIS: 2000-04-12; ETDE: 1980-10-07  
 USE daily variations

**DIELDRIN**

\*BT1 insecticides

**DIELECTRIC AMPLIFIERS**

\*BT1 amplifiers

**dielectric constant**

INIS: 1977-06-13; ETDE: 2002-06-13  
 USE permittivity

**DIELECTRIC MATERIALS**

- UF dielectrics  
 UF materials (dielectric)  
 BT1 materials  
 NT1 antiferroelectric materials  
 NT1 electrets  
 NT1 ferroelectric materials  
 RT capacitors  
 RT dielectric properties  
 RT dielectric tensor  
 RT dielectric track detectors  
 RT electrical insulation  
 RT electrical insulators  
 RT insulating oils  
 RT lichtenberg figures  
 RT mica  
 RT natural rubber  
 RT organic insulators  
 RT paper  
 RT potting  
 RT potting materials  
 RT ritad dosimeters  
 RT rubbers  
 RT varnishes

**DIELECTRIC PROPERTIES**

- \*BT1 electrical properties  
 NT1 kerr effect  
 NT1 permittivity  
 RT capacitance  
 RT dielectric materials  
 RT dielectric tensor  
 RT insulating oils

*RT* relaxation losses

**DIELECTRIC TENSOR**

*INIS: 1981-08-31; ETDE: 1981-09-22*

*BT1* tensors  
*RT* dielectric materials  
*RT* dielectric properties

**DIELECTRIC TRACK DETECTORS**

*UF* track detectors (*dielectric*)

\**BT1* radiation detectors  
*RT* ceramics  
*RT* dielectric materials  
*RT* electron microscopy  
*RT* etching  
*RT* fission foil detectors  
*RT* glass  
*RT* latent images  
*RT* lithium fluorides  
*RT* luminescent dosimeters  
*RT* mica  
*RT* olivine  
*RT* particle tracks  
*RT* polymers  
*RT* tourmaline

**dielectrics**

USE dielectric materials

**DIELS-ALDER REACTION**

*BT1* chemical reactions

**DIENES**

\**BT1* polyenes  
*NT1* allene  
*NT1* butadiene  
*NT1* cyclopentadiene  
*NT1* ferrocene  
*NT1* isoprene  
*NT1* pentadienes

**DIENG GEOTHERMAL FIELD**

*INIS: 2000-04-12; ETDE: 1983-04-28*

*BT1* geothermal fields  
*RT* indonesia

**DIES**

*RT* casting  
*RT* casting molds  
*RT* extrusion  
*RT* forging  
*RT* pressing

**DIESEL ENGINES**

*1990-12-06*

(Prior to December 1990, this concept was indexed by DIESEL MOTORS.)

*UF* diesel motors  
\**BT1* internal combustion engines  
*RT* dual-fuel engines  
*RT* fuel injection systems

**DIESEL FUELS**

*1991-10-10*

*UF* diesel oil (*fraction*)  
\**BT1* gas oils  
\**BT1* liquid fuels  
*RT* ethanol fuels

**diesel motors**

*1990-12-06*

(Prior to December 1990, this was a valid descriptor.)

USE diesel engines

**diesel oil (fraction)**

*INIS: 1992-01-09; ETDE: 1976-03-11*

USE diesel fuels

**DIET**

*RT* animal feeds  
*RT* beverages  
*RT* drinking water

*RT* fasting  
*RT* feeding  
*RT* food  
*RT* food additives  
*RT* food chains  
*RT* icrp critical group  
*RT* ingestion  
*RT* mass rearing  
*RT* nutrients  
*RT* nutrition  
*RT* nutritional deficiency  
*RT* rearing  
*RT* therapy  
*RT* vitamins

**diethyl ether**

USE ethyl ether

**diethyldithiocarbamates**

USE dedtc

**diethylenetriaminopentaacetic acid**

*1995-02-16*

USE dtpa

**DIFFERENTIAL CALCULUS**

*UF* calculus (*differential*)  
*BT1* mathematics  
*RT* differential geometry

**DIFFERENTIAL CROSS SECTIONS**

*BT1* cross sections  
*NT1* excitation functions  
*RT* angular distribution

**DIFFERENTIAL EQUATIONS**

*UF* canonical equations  
*UF* equations (*differential*)  
*BT1* equations  
*NT1* bbgky equation  
*NT1* chapman-kolmogorov equation  
*NT1* dirac-hestenes equation  
*NT1* hill equation  
*NT1* joos-weinberg equation  
*NT1* mathieu equation  
*NT1* partial differential equations  
*NT2* boltzmann equation  
*NT2* boltzmann-vlasov equation  
*NT3* plasma fluid equations  
*NT2* continuity equations  
*NT2* diffusion equations  
*NT3* neutron diffusion equation  
*NT2* equations of motion  
*NT2* fokker-planck equation  
*NT2* fourier heat equation  
*NT2* grad-shafranov equation  
*NT2* hamilton-jacobi equations  
*NT2* korteweg-de vries equation  
*NT2* lagrange equations  
*NT2* laplace equation  
*NT2* maxwell equations  
*NT2* navier-stokes equations  
*NT2* poisson equation  
*NT2* proca equations  
*NT2* wave equations  
*NT3* dirac equation  
*NT3* klein-gordon equation  
*NT3* schroedinger equation

*NT1* riccati equation  
*NT1* schwinger functional equations  
*NT1* sturm-liouville equation  
*RT* airy functions  
*RT* analytical solution  
*RT* bifurcation  
*RT* boundary conditions  
*RT* boundary-value problems  
*RT* cluster expansion  
*RT* control theory  
*RT* dirichlet problem  
*RT* finite difference method  
*RT* finite element method

*RT* floquet function  
*RT* green function  
*RT* integral equations  
*RT* limit cycle  
*RT* lyapunov method  
*RT* mathematics  
*RT* recursion relations  
*RT* riemann function  
*RT* runge-kutta method

**DIFFERENTIAL GEOMETRY**

*1983-03-15*

\**BT1* geometry  
*RT* differential calculus  
*RT* mathematical space

**DIFFERENTIAL PAC**

*UF* perturbed angular correlation (*differential*)

\**BT1* perturbed angular correlation  
*RT* time dependence

**DIFFERENTIAL THERMAL ANALYSIS**

*UF* *dta*  
*BT1* thermal analysis  
*RT* transition heat

**DIFFERENTIAL TOPOLOGY**

\**BT1* topology  
*RT* mapping fibration  
*RT* smooth manifolds  
*RT* topological foliation

**DIFFRACTION**

\**BT1* coherent scattering  
*NT1* atomic beam diffraction  
*NT1* diffuse scattering  
*NT1* electron diffraction  
*NT1* neutron diffraction  
*NT1* x-ray diffraction  
*RT* debye-waller factor  
*RT* diffraction gratings  
*RT* diffractometers  
*RT* gamma diffractometers  
*RT* gratings  
*RT* optical dispersion  
*RT* optical properties

**diffraction (electron)**

*2000-04-12*

USE electron diffraction

**diffraction (neutron)**

*2000-04-12*

USE neutron diffraction

**diffraction (x-ray)**

*2000-04-12*

USE x-ray diffraction

**diffraction dissociation**

USE diffraction models

**DIFFRACTION GRATINGS**

*INIS: 1984-01-18; ETDE: 1984-02-10*

(Prior to November 1989 this concept in ETDE was indexed by GRATINGS.)

*UF* echelle gratings  
*UF* echelon gratings  
*RT* diffraction  
*RT* diffractometers  
*RT* optical systems  
*RT* spectrometers  
*RT* x-ray equipment

**DIFFRACTION METHODS**

*NT1* debye-scherrer method  
*NT1* laue method  
*NT1* rotating crystal method  
*RT* crystal lattices  
*RT* crystallography



RT patterson method  
 RT schulz method  
 RT x-ray diffractometers

**DIFFRACTION MODELS**

UF *diffraction dissociation*  
 UF *diffraction production*  
 \*BT1 particle models

**diffraction production**

USE diffraction models

**diffractive dissociation**

INIS: 1975-10-23; ETDE: 2002-06-13

*In high-energy hadron collisions.*

USE multiperipheral model  
 USE particle production

**DIFFRACTOMETERS**

BT1 measuring instruments  
 NT1 gamma diffractometers  
 NT1 neutron diffractometers  
 NT1 x-ray diffractometers  
 RT diffraction  
 RT diffraction gratings

**DIFFUSE SCATTERING**

2002-11-21

*Broad diffraction spread in reciprocal space indicated by halos or streaks that appear around intense Bragg reflections.*

\*BT1 diffraction  
 RT bragg reflection  
 RT elastic scattering  
 RT electron diffraction  
 RT incoherent scattering  
 RT neutron diffraction  
 RT x-ray diffraction

**DIFFUSE SOLAR RADIATION**

INIS: 1992-07-06; ETDE: 1979-10-23

*Solar radiation that has been scattered or reflected in traversal of the atmosphere.*

\*BT1 solar flux  
 \*BT1 solar radiation  
 RT direct solar radiation  
 RT insolation  
 RT light scattering

**DIFFUSER AUGMENTED TURBINES**

INIS: 2000-04-12; ETDE: 1977-06-02

*Horizontal axis turbines enclosed in shroud of duct to create venturi effect.*

\*BT1 wind turbines  
 RT horizontal axis turbines

**DIFFUSERS**

INIS: 2000-04-12; ETDE: 1977-11-29

*Ducts, chambers, or sections in which a high-velocity, low-pressure stream of fluid is converted into a low-velocity, high-pressure flow.*

RT baffles  
 RT ducts  
 RT fluid flow  
 RT mhd channels  
 RT pipes

**DIFFUSION**

UF *effusion*  
 NT1 ambipolar diffusion  
 NT1 gaseous diffusion  
 NT1 osmosis  
 NT1 self-diffusion  
 NT1 thermal diffusion  
 RT advection  
 RT atom transport  
 RT dialysis  
 RT donnan theory  
 RT fick laws  
 RT kirkendall effect  
 RT leaching

RT mass transfer  
 RT mean free path  
 RT membrane transport  
 RT mixing  
 RT particle resuspension  
 RT prandtl number  
 RT radionuclide migration  
 RT sinks  
 RT turbulence

**diffusion area**

USE diffusion length

**DIFFUSION BARRIERS**

1975-11-07

*Porous barriers through which gaseous mixtures are passed for enrichment of the lighter-molecular-weight constituent of the diffusate; used as a many-stage cascade system for the separation of uranium 235 from uranium 238 in uranium hexafluoride.*

SF *barriers*  
 RT gaseous diffusion plants  
 RT gaseous diffusion process

**DIFFUSION CHAMBERS**

\*BT1 cloud chambers  
 RT aerosols

**DIFFUSION COATING**

*The process.*

UF *calorizing*  
 UF *chromizing*  
 UF *sherardizing*  
 UF *siliconizing*  
 \*BT1 surface coating  
 RT diffusion coatings

**DIFFUSION COATINGS**

BT1 coatings  
 RT diffusion coating

**DIFFUSION EQUATIONS**

INIS: 2003-07-24; ETDE: 2003-09-02

\*BT1 partial differential equations  
 NT1 neutron diffusion equation  
 RT laplacian

**DIFFUSION LENGTH**

1999-07-20

UF *diffusion area*  
 \*BT1 length  
 RT migration length

**DIFFUSION WELDING**

\*BT1 welding

**digallic acid**

USE tannic acid

**digester gas**

INIS: 2000-04-12; ETDE: 1984-10-24

USE methane

**DIGESTION**

NT1 aerobic digestion  
 NT1 anaerobic digestion  
 NT2 biogas process  
 NT1 intracellular digestion  
 RT amylase  
 RT chymotrypsin  
 RT digestive system  
 RT enzymes  
 RT gastric acid  
 RT ingestion  
 RT intestinal absorption  
 RT pepsin  
 RT physiology  
 RT trypsin

**DIGESTIVE SYSTEM**

NT1 biliary tract  
 NT1 esophagus

NT1 gastrointestinal tract  
 NT2 intestines  
 NT3 large intestine  
 NT4 rectum  
 NT3 small intestine  
 NT2 stomach  
 NT1 liver  
 NT1 oral cavity  
 NT2 teeth  
 NT2 tongue  
 NT1 pancreas  
 NT1 pharynx  
 RT anorexia  
 RT digestion  
 RT digestive system diseases  
 RT organs

**DIGESTIVE SYSTEM DISEASES**

BT1 diseases  
 NT1 enteritis  
 NT1 hepatitis  
 NT2 infectious hepatitis  
 NT1 liver cirrhosis  
 NT1 peritonitis  
 NT1 proctitis  
 RT anorexia  
 RT constipation  
 RT diarrhea  
 RT digestive system  
 RT gastrectomy  
 RT hepatectomy  
 RT nausea  
 RT vomiting

**DIGITAL CIRCUITS**

UF *coding circuits*  
 BT1 electronic circuits  
 RT sequential circuits

**DIGITAL COMPUTERS**

1996-11-13

(CII COMPUTERS and PARAMETER COMPUTERS have been valid ETDE descriptors.)

UF *cii computers*  
 UF *data processors*  
 UF *parameter computers*  
 BT1 computers  
 NT1 array processors  
 NT1 calculators  
 NT1 fault tolerant computers  
 NT1 microcomputers  
 NT2 personal computers  
 NT1 supercomputers

**DIGITAL FILTERS**

INIS: 1986-03-04; ETDE: 1977-07-23

*Computational means of attenuating undesired frequencies in a set of time-dependent data.*

RT array processors  
 RT data processing  
 RT digital frequency analysis  
 RT frequency analysis  
 RT image processing

**DIGITAL FREQUENCY ANALYSIS**

INIS: 2000-04-12; ETDE: 1977-07-23

*Computational procedure for estimating frequency content for set of time-dependent data.*

BT1 frequency analysis  
 RT data processing  
 RT digital filters  
 RT mathematical operators

**DIGITAL SYSTEMS**

RT analog-to-digital converters  
 RT computer architecture  
 RT computers  
 RT digital-to-analog converters

RT electronic circuits  
RT electronic equipment

## DIGITAL-TO-ANALOG CONVERTERS

UF converters (*digital-analog*)  
\*BT1 electronic equipment  
RT analog systems  
RT digital systems

## DIGITALIS

\*BT1 magnoliopsida  
\*BT1 medicinal plants

## DIGITALIS GLYCOSIDES

2000-03-27  
\*BT1 cardiac glycosides  
NT1 digitoxin  
NT1 digoxin

## DIGITIZERS

*Devices for converting non-digital information into digits.*

\*BT1 signal conditioners  
NT1 cathode ray tube digitizers  
NT1 flying spot digitizers  
NT1 scanning measuring projectors  
NT1 spiral reader digitizers  
RT analog-to-digital converters  
RT bubble chambers  
RT data processing  
RT electronic equipment  
RT image scanners  
RT on-line measurement systems  
RT signal conditioning  
RT spark chambers  
RT video tapes

## DIGITOXIN

\*BT1 digitalis glycosides  
RT digoxin

## diglycol monoalkyl ethers

1996-06-26  
(Prior to June 1996 CARBITOLS was a valid ETDE descriptor.)  
USE ethers  
USE glycols  
USE organic solvents

## DIGOXIN

UF *lanoxin*  
\*BT1 digitalis glycosides  
RT digitoxin

## dihexyl-n,n-diethylcarbamylo-methylenephosphonate

INIS: 2000-04-12; ETDE: 1980-06-23  
USE dhdecamp

## dihydroxyaromatics

USE polyphenols

## dihydroxybenzene-meta

USE resorcinol

## dihydroxybenzene-ortho

USE pyrocatechol

## dihydroxypropionic acid

USE glyceric acid

## dihydroxysuccinic acid

USE tartaric acid

## diit-d

1998-08-28  
USE doublet-3 device

## DIODOTHYRONINE

1983-09-06  
\*BT1 thyroid hormones  
RT thyronine

RT triiodothyronine

## DIODOTYROSINE

\*BT1 amino acids  
\*BT1 hydroxy acids  
\*BT1 organic iodine compounds  
RT tyrosine

## diisoamyl methylphosphonate

USE dampa

## diisopentyl methylphosphonate

USE dampa

## diisopropyl ether

USE isopropyl ether

## dikes

INIS: 2000-04-12; ETDE: 1980-12-08  
*Vertical tabular bodies of rock that fill fissures in host rock. Use the descriptor below (or geologic formations, if more appropriate). (Prior to February 1997 this was a valid ETDE descriptor.)*  
USE geologic structures

## DILATANCY

INIS: 1999-05-14; ETDE: 1982-11-08  
*The increase in volume during application of differential stresses to a noncompacting material.*  
BT1 mechanical properties  
RT compressibility  
RT deformation  
RT rock mechanics  
RT stresses  
RT volume

## DILATOMETRY

BT1 thermal analysis  
RT extensometers  
RT shrinkage  
RT thermal expansion

## diluents

INIS: 1975-10-23; ETDE: 2002-06-13  
USE solvents

## DILUTE ALLOYS

BT1 alloys

## DILUTION

RT isotope dilution  
RT solutions

## dimensional compactification

INIS: 1985-10-23; ETDE: 2002-06-13  
USE compactification

## DIMENSIONLESS NUMBERS

INIS: 2005-06-08; ETDE: 2005-05-26  
*Numbers with no associated unit of measure such as grams or meters; often the ratio of two numbers with the same unit of measure.*

NT1 aspect ratio  
NT1 axial ratio  
NT1 beta ratio  
NT1 branching ratio  
NT1 capture-to-fission ratio  
NT1 compression ratio  
NT1 concentration ratio  
NT1 conversion ratio  
NT2 breeding ratio  
NT1 demand factors  
NT1 disadvantage factor  
NT1 dissipation factor  
NT1 fano factor  
NT1 fast fission factor  
NT1 fill factors  
NT1 fission ratio  
NT1 form factors  
NT2 dirac form factors

NT2 electromagnetic form factors

NT2 pauli form factors

NT1 friction factor  
NT1 froude number  
NT1 fuel-air ratio  
NT1 grashof number  
NT1 hartmann number  
NT1 hot channel factor  
NT1 hot spot factor  
NT1 isomer ratio  
NT1 isotope ratio  
NT1 lande factor  
NT1 lewis number  
NT1 mach number  
NT1 minus-plus ratio  
NT1 mirror ratio  
NT1 mixing ratio  
NT1 moderating ratio  
NT1 moderator-fuel ratio  
NT1 multiplication factors  
NT1 nusselt number  
NT1 order parameters  
NT1 oxygen enhancement ratio  
NT1 panofsky ratio  
NT1 poisson ratio  
NT1 polarization-asymmetry ratio  
NT1 power factor  
NT1 prandtl number  
NT1 quality factor  
NT1 rayleigh number  
NT1 reynolds number  
NT2 magnetic reynolds number  
NT1 richardson number  
NT1 sex ratio  
NT1 signal-to-noise ratio  
NT1 slip ratio  
NT1 sommerfeld constant  
NT1 spectroscopic factors  
NT1 structure factors  
NT1 thermal fission factor  
NT1 wolfenstein parameters

## DIMENSIONS

NT1 depth  
NT2 depth 1-3 km  
NT2 depth 3-6 km  
NT2 depth 6-9 km  
NT2 depth 9-12 km  
NT1 height  
NT2 scale height  
NT2 virtual height  
NT1 length  
NT2 bond lengths  
NT2 coherence length  
NT2 debye length  
NT2 diffusion length  
NT2 elementary length  
NT2 extrapolation length  
NT2 migration length  
NT2 radiation length  
NT2 scattering lengths  
NT2 slowing-down length  
NT1 thickness  
NT1 width  
RT amplitudes  
RT compactification  
RT distance  
RT shape  
RT size  
RT tolerance  
RT topology  
RT volume

## DIMERCAPROL

ETDE: 2005-02-01

(Prior to January 2005 BAL was used for this concept.)

UF *bal (british anti-lewisite)*  
UF *british anti-lewisite*  
UF *dimercaptopropanol*

- BT1 chelating agents  
 \*BT1 dithiols  
 \*BT1 radioprotective substances  
 RT unithiol

**dimercaptoethane**

- USE dithiols

**dimercaptopropanol**

- USE dimercaprol

**DIMERIZATION**

- \*BT1 polymerization

**DIMERS**

- NT1 pyrimidine dimers  
 RT monomers  
 RT polymers

**dimethoxymethane**

2002-06-07

- USE methylal

**dimethyl ether**

INIS: 1976-07-30; ETDE: 2002-06-13

- USE methyl ether

**dimethyl ketone**

- USE acetone

**DIMETHYL SULFIDE**

1992-01-07

- UF dimethylsulfide  
 \*BT1 organic sulfur compounds  
 \*BT1 sulfides

**dimethyl sulfoxide**

- USE dmso

**DIMETHYLBENZANTHRACENE**

INIS: 1980-05-14; ETDE: 1979-07-18

- UF dmba  
 \*BT1 condensed aromatics  
 RT carcinogens  
 RT neoplasms

**dimethylbenzenes**

- USE xylenes

**DIMETHYLGLYOXIME**

- \*BT1 oximes

- BT1 reagents

**dimethylphenols**

2000-04-12

- USE xylenes

**dimethylpropane (2,2-)**

ETDE: 2002-06-13

- USE 2-2-dimethylpropane

**dimethylpropionic acid**

- USE pivalic acid

**dimethylsulfide**

1992-01-07

- USE dimethyl sulfide

**DIMPLE REACTOR**

Uncooled, variably fueled reactor. UKAEA, Winfrith, United Kingdom.

- UF deuterium moderated pile low energy  
 \*BT1 heavy water moderated reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

**DINEUTRONS**

1978-01-16

- \*BT1 dibaryons  
 \*BT1 polyneutrons

**dining car event**

INIS: 1994-10-14; ETDE: 1975-11-11

A test made during project bedrock. (Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions  
 USE underground explosions

**dining halls**

INIS: 2000-04-12; ETDE: 1981-01-09

- USE restaurants

**DINITROPHENOL**

UF dnp

- \*BT1 nitro compounds  
 \*BT1 phenols  
 RT nitrophenol

**dinitrosoresorcinol**

INIS: 2000-04-12; ETDE: 1981-07-18

- USE nitroso compounds

**DINOFLAGELLATE**

INIS: 1980-09-12; ETDE: 1980-10-07

- \*BT1 mastigophora

**DIODE-PUMPED SOLID STATE LASERS**

INIS: 1996-04-17; ETDE: 1997-05-08

- \*BT1 solid state lasers  
 RT icf devices

**diode transistors**

ETDE: 1975-09-11

- USE transistors

**DIODE TUBES**

- BT1 electron tubes  
 NT1 thermionic diodes

**diodes (semiconductor)**

- USE semiconductor diodes

**diodrast**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE contrast media  
 USE heterocyclic acids  
 USE organic iodine compounds  
 USE pyridines

**diols**

- USE glycols

**DIOPSIDE**

INIS: 2000-04-12; ETDE: 1976-01-07

A mineral of the clinopyroxene group.

- \*BT1 silicate minerals

**DIORIT REACTOR**

Eidgenoessiches Institute fuer Reaktorforschung, Wuerlingen, Switzerland.

- \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 mixed spectrum reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors

**DIORITES**

INIS: 2000-04-12; ETDE: 1980-08-12

- \*BT1 plutonic rocks

**DIOXANE**

UF 1,4-dioxane

UF dioxyethylene ether

- \*BT1 heterocyclic compounds  
 \*BT1 organic oxygen compounds

**DIOXIN**

INIS: 1987-02-25; ETDE: 1980-03-29

- \*BT1 heterocyclic compounds

- \*BT1 organic oxygen compounds  
 RT preservatives

**dioxyethylene ether**

- USE dioxane

**DIP COATING**

- \*BT1 surface coating  
 NT1 hot dipping  
 RT dipped coatings

**dip logging**

INIS: 2000-04-12; ETDE: 1976-08-25

- USE dipmeter logging

**dipentyl sulfoxide**

- USE dpso

**diphenyl ketone**

- USE benzophenone

**diphenylcarbazides**

- USE dpca

**diphenylcarbazones**

1996-10-23

(Until October 1996 this was a valid descriptor.)

- USE carbazones

**diphenylcarbinol**

- USE benzhydrol

**diphenylethane (1,2-)**

ETDE: 2002-06-13

- USE bibenzyl

**diphenylglycolic acid**

- USE benzoic acid

**diphenylmethanol**

- USE benzhydrol

**diphenylphosphine oxide**

- USE organic phosphorus compounds

**diphenylpicrylhydrazyl**

- USE dpsh

**diphenylthiocarbazon**

- USE dithizone

**diphosphodihydropyridine nucleotide**

INIS: 1995-02-16; ETDE: 1976-05-17

- USE nadh2

**DIPHThERIA**

- \*BT1 bacterial diseases

**diplococcus pneumoniae**

- USE pneumococcus

**DIPLOIDY**

- BT1 ploidy

**DIPMETER LOGGING**

INIS: 2000-04-12; ETDE: 1976-08-24

UF dip logging

- BT1 well logging

**DIPOLE MOMENTS**

- NT1 electric dipole moments  
 NT1 magnetic dipole moments  
 RT dipoles

**DIPOL**

- BT1 multipoles  
 NT1 electric dipoles  
 NT1 magnetic dipoles  
 RT dipole moments  
 RT polar compounds  
 RT relaxation losses

**DIPPED COATINGS**

BT1 coatings  
RT dip coating

**DIPROTONS**

\*BT1 dibaryons  
\*BT1 protons

**DIPTERA**

INIS: 1993-07-14; ETDE: 1981-06-16

\*BT1 insects  
NT1 flies  
NT2 fruit flies  
NT3 anastrepha  
NT3 ceratitis capitata  
NT3 dacus  
NT4 dacus oleae  
NT3 drosophila  
NT2 glossina  
NT2 hylemya antiqua  
NT2 screwworm fly  
NT1 mosquitoes

**DIPYRIDAMOLE**

INIS: 1992-08-06; ETDE: 1992-09-10

\*BT1 piperidines  
\*BT1 vasodilators

**DIRAC APPROXIMATION**

\*BT1 approximations  
RT quantum mechanics

**DIRAC COSMOLOGY**

BT1 cosmology

**dirac delta function**

USE delta function

**DIRAC EQUATION**

\*BT1 field equations  
\*BT1 wave equations  
RT dirac operators  
RT electrons  
RT foldy-wouthuysen transform  
RT joos-weinberg equation  
RT quantum electrodynamics  
RT schrodinger equation  
RT special relativity theory

**DIRAC FORM FACTORS**

\*BT1 form factors

**DIRAC-HESTENES EQUATION**

\*BT1 differential equations

**dirac matrices**

USE dirac operators

**dirac monopoles**

USE magnetic monopoles

**DIRAC OPERATORS**

UF dirac matrices  
\*BT1 quantum operators  
RT dirac equation  
RT quantum electrodynamics

**DIRECT COLLECTION CONVERTERS**

UF radioelectric cells  
BT1 direct energy converters  
NT1 betavoltaic cells  
RT radioisotope batteries

**DIRECT CONTACT HEAT EXCHANGERS**

INIS: 2000-04-12; ETDE: 1977-12-22

BT1 heat exchangers

**DIRECT CURRENT**

UF current (direct)  
\*BT1 electric currents  
RT homopolar generators

**DIRECT CYCLE COOLING SYSTEMS**

\*BT1 reactor cooling systems

**DIRECT DRIVE ICF**

1999-09-15

*Inertial confinement fusion in which the driver energy is directly absorbed by the target capsule.*

RT direct drive laser implosion  
RT inertial confinement

**DIRECT DRIVE LASER IMPLOSION**

INIS: 1995-07-21; ETDE: 1992-06-11

*Laser implosion where the driver energy is directly absorbed by the target capsule.*

\*BT1 laser implosions  
RT direct drive icf  
RT indirect drive laser implosion  
RT inertial fusion drivers  
RT laser fusion reactors  
RT laser-produced plasma  
RT laser-radiation heating  
RT laser targets  
RT pulsed fusion reactors

**DIRECT ENERGY CONVERSION**

\*BT1 energy conversion  
NT1 photovoltaic conversion  
NT1 thermionic conversion  
NT1 thermoelectric conversion  
NT1 thermomagnetic conversion  
NT1 thermophotovoltaic conversion  
RT direct energy converters  
RT electrohydrodynamics  
RT magnetohydrodynamics

**DIRECT ENERGY CONVERTERS**

NT1 direct collection converters  
NT2 betavoltaic cells  
NT1 efd wind generators  
NT1 ehd generators  
NT1 ferroelectric converters  
NT1 fuel cells  
NT2 acid electrolyte fuel cells  
NT2 alcohol fuel cells  
NT3 direct ethanol fuel cells  
NT3 direct methanol fuel cells  
NT2 alkaline electrolyte fuel cells  
NT2 ammonia fuel cells  
NT2 biochemical fuel cells  
NT2 coal fuel cells  
NT2 formaldehyde fuel cells  
NT2 formate fuel cells  
NT2 formic acid fuel cells  
NT2 high-temperature fuel cells  
NT3 molten carbonate fuel cells  
NT3 solid oxide fuel cells  
NT2 hydrazine fuel cells  
NT2 hydrocarbon fuel cells  
NT2 hydrogen fuel cells  
NT2 natural gas fuel cells  
NT2 regenerative fuel cells  
NT3 redox fuel cells  
NT2 solid electrolyte fuel cells  
NT3 proton exchange membrane fuel cells  
NT3 solid oxide fuel cells  
NT1 mhd generators  
NT2 closed-cycle mhd generators  
NT3 liquid-metal mhd generators  
NT2 coal-fired mhd generators  
NT3 mhd generator cdif  
NT3 mhd generator cfff  
NT3 mhd generator etf  
NT3 mhd generator utsi  
NT2 disk mhd generators  
NT2 mhd generator aedc  
NT2 mhd generator aerl mark vi  
NT2 mhd generator aerl mark vii

NT2 mhd generator u-02  
NT2 mhd generator u-25  
NT2 open-cycle mhd generators  
NT2 pulsed mhd generators  
NT1 photoelectric cells  
NT2 photoconductive cells  
NT2 photovoltaic cells  
NT3 solar cells  
NT4 aluminium arsenide solar cells  
NT4 back contact solar cells  
NT4 cadmium arsenide solar cells  
NT4 cadmium selenide solar cells  
NT4 cadmium sulfide solar cells  
NT4 cadmium telluride solar cells  
NT4 cascade solar cells  
NT4 concentrator solar cells  
NT4 copper oxide solar cells  
NT4 copper selenide solar cells  
NT4 copper sulfide solar cells  
NT4 gallium arsenide solar cells  
NT4 gallium phosphide solar cells  
NT4 indium phosphide solar cells  
NT4 indium selenide solar cells  
NT4 mi solar cells  
NT4 mis solar cells  
NT4 mos solar cells  
NT4 ms solar cells  
NT4 organic solar cells  
NT4 pis solar cells  
NT4 ps solar cells  
NT4 schottky barrier solar cells  
NT4 selenium solar cells  
NT4 silicon arsenide solar cells  
NT4 silicon solar cells  
NT5 soc solar cells  
NT4 zinc phosphide solar cells  
NT4 zinc sulfide solar cells

NT1 radioisotope batteries

NT2 snap batteries  
NT3 snap 19 battery  
NT3 snap 27 battery  
NT3 snap 9 battery

NT1 thermionic converters  
NT1 thermoelectric generators  
NT1 thermoelectric heaters  
NT1 thermoelectric refrigerators  
NT1 thermophotovoltaic converters  
RT direct energy conversion  
RT power supplies

**DIRECT ETHANOL FUEL CELLS**

2006-08-30

\*BT1 alcohol fuel cells

**DIRECT GAIN SYSTEMS**

INIS: 2000-04-12; ETDE: 1980-09-04

(Prior to September 1980 HEAT GAIN was used to index this concept in ETDE.)

\*BT1 passive solar heating systems  
RT heat gain

**DIRECT INJECTION ENGINES**

2004-08-26

\*BT1 internal combustion engines

**DIRECT METHANOL FUEL CELLS**

INIS: 2000-04-12; ETDE: 1999-09-09

\*BT1 alcohol fuel cells  
RT proton exchange membrane fuel cells

**DIRECT REACTIONS**

BT1 nuclear reactions  
NT1 knock-on reactions  
NT1 knock-out reactions  
NT1 quasi-free reactions  
NT2 quasi-elastic scattering  
NT1 transfer reactions  
NT2 multi-nucleon transfer reactions  
NT3 four-nucleon transfer reactions  
NT4 alpha-transfer reactions  
NT3 many-nucleon transfer reactions

**NT3** three-nucleon transfer reactions  
**NT3** two-nucleon transfer reactions  
**NT2** one-nucleon transfer reactions  
**NT2** pickup reactions  
**NT2** stripping  
*RT* oppenheimer-phillips process

**DIRECT SOLAR RADIATION**

*INIS: 1997-06-19; ETDE: 1979-10-23*  
*Solar radiation that has not been scattered or reflected in traversal of the atmosphere.*  
 \*BT1 solar flux  
 \*BT1 solar radiation  
*RT* diffuse solar radiation  
*RT* insolation  
*RT* solar access

**DIRECTED-ENERGY WEAPONS**

*INIS: 2000-04-12; ETDE: 1981-08-21*  
*UF particle-beam weapons*  
 BT1 weapons  
**NT1** laser weapons  
*RT* ballistic missile defense  
*RT* charged particles  
*RT* particle beams  
*RT* space weapons

**directional correlation**

USE angular correlation

**DIRECTIONAL DRILLING**

*INIS: 1992-07-06; ETDE: 1977-04-12*  
*Drilling at a deviated angle. The drilling usually starts out vertically and is then deflected gradually.*  
 BT1 drilling  
*RT* enhanced recovery  
*RT* geothermal wells  
*RT* well drilling

**DIRECTIONAL RADIATION**

**DETECTORS**  
 \*BT1 radiation detectors

**DIRECTORIES**

*INIS: 1999-03-02; ETDE: 1978-10-23*  
 (Until March 1999 this concept was indexed by INDEXES.)  
 BT1 document types  
*RT* catalogs  
*RT* indexes

**DIRICHLET PROBLEM**

BT1 boundary-value problems  
*RT* differential equations  
*RT* partial differential equations

**dirigibles**

*INIS: 2000-04-12; ETDE: 1980-01-15*  
 (Prior to March 1996 AIRSHIPS was used for this concept in ETDE.)  
 USE aircraft

**DISACCHARIDES**

*1996-06-28*  
 (Prior to July 1996 MELIBIOSE was a valid ETDE descriptor.)  
*UF melibiose*  
 \*BT1 oligosaccharides  
**NT1** cellobiose  
**NT1** lactose  
**NT1** maltose  
**NT1** saccharose

**DISADVANTAGE FACTOR**

BT1 dimensionless numbers  
*RT* multiplication factors  
*RT* neutron flux

**disarmament**

*INIS: 1992-01-30; ETDE: 1985-08-09*  
 SEE arms control

SEE nuclear disarmament

**disaster (exceptional natural)**

*INIS: 1985-12-10; ETDE: 2002-01-30*  
 USE exceptional natural disaster

**disasters**

*INIS: 2000-03-27; ETDE: 1978-06-14*  
*Large-scale drought, glacier movement, floods, fires, storms, etc.*  
 (Prior to March 1996 this was a valid ETDE descriptor.)  
 SEE accidents  
 SEE natural disasters

**disbursements**

*INIS: 2000-04-12; ETDE: 1983-05-21*  
*Funds paid out, payments in settlement, or expenditures from a fund.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 SEE administrative procedures  
 SEE financing

**DISCALOY**

*2000-04-12*  
 \*BT1 aluminium additions  
 \*BT1 carbon additions  
 \*BT1 chromium alloys  
 \*BT1 iron base alloys  
 \*BT1 manganese additions  
 \*BT1 molybdenum alloys  
 \*BT1 nickel alloys  
 \*BT1 silicon additions  
 \*BT1 titanium alloys

**DISCHARGE CANALS**

*2000-04-12*  
*RT* auxiliary water systems  
*RT* cooling systems

**DISCHARGE QUENCHING**

*1996-04-16*  
*The stifling of a discharge by suddenly applying a load to lower its thermal energy.*  
*UF quenching (discharge)*  
*RT* electric discharges  
*RT* thermonuclear devices

**discharges (electric)**

USE electric discharges

**discharges (ionization)**

USE ionization

**discharges (wastes)**

USE waste disposal

**discharging (fission reactor)**

*1982-11-29*  
 USE reactor fueling

**discount rate**

*INIS: 2000-04-12; ETDE: 1978-06-14*  
 USE interest rate

**DISCRETE ORDINATE METHOD**

*UF carlson method*  
*UF discrete ordinates*  
*UF sn method*  
 BT1 calculation methods  
*RT* neutron transport theory  
*RT* transport theory

**discrete ordinates**

*ETDE: 1978-05-01*  
 USE discrete ordinate method

**DISCRIMINATORS**

BT1 electronic circuits  
**NT1** pulse discriminators  
*RT* timing circuits

**disease free period**

*INIS: 1985-03-19; ETDE: 1985-04-09*  
*The time between disease treatment and recurrence of symptoms.*  
 USE latency period

**DISEASE INCIDENCE**

*INIS: 1985-01-18; ETDE: 1981-06-16*  
*UF morbidity*  
*RT* disease resistance  
*RT* diseases  
*RT* epidemiology  
*RT* plant diseases

**DISEASE RESISTANCE**

*RT* disease incidence  
*RT* diseases  
*RT* epidemiology  
*RT* immunity  
*RT* mutants  
*RT* plant breeding  
*RT* plant diseases

**DISEASE VECTORS**

*RT* diseases  
*RT* glossina  
*RT* insects  
*RT* mites  
*RT* parasites  
*RT* pathogens  
*RT* rodents  
*RT* snails

**DISEASES**

*Limited to diseases of man and animals; see also PLANT DISEASES.*

**NT1** cardiovascular diseases  
**NT2** arteriosclerosis  
**NT2** hypertension  
**NT2** ischemia  
**NT2** myocardial infarction  
**NT2** nephrosclerosis  
**NT2** telangiectasis  
**NT2** thrombosis  
**NT1** congenital diseases  
**NT2** downs syndrome  
**NT1** digestive system diseases  
**NT2** enteritis  
**NT2** hepatitis  
**NT3** infectious hepatitis  
**NT2** liver cirrhosis  
**NT2** peritonitis  
**NT2** proctitis  
**NT1** endocrine diseases  
**NT2** acromegaly  
**NT2** cushing syndrome  
**NT2** diabetes mellitus  
**NT2** goiter  
**NT2** hyperparathyroidism  
**NT2** hyperthyroidism  
**NT2** hypothyroidism  
**NT2** thyroiditis  
**NT1** hemic diseases  
**NT2** anemias  
**NT3** ischemia  
**NT3** megaloblastic anemia  
**NT3** sickle cell anemia  
**NT3** thalassemia  
**NT2** hemophilia  
**NT2** leukopenia  
**NT3** lymphopenia  
**NT2** polycythemia  
**NT2** purpura  
**NT1** hereditary diseases  
**NT2** downs syndrome  
**NT2** hemophilia  
**NT1** immune system diseases  
**NT2** aids  
**NT2** leukemia  
**NT3** myeloid leukemia

NT2 leukopenia  
 NT3 lymphopenia  
 NT2 lupus  
 NT2 lymphomas  
 NT3 hodgkins disease  
 NT3 lymphosarcomas  
 NT1 infectious diseases  
 NT2 bacterial diseases  
 NT3 cholera  
 NT3 diphtheria  
 NT3 gonorrhea  
 NT3 leprosy  
 NT3 syphilis  
 NT3 tetanus  
 NT3 tuberculosis  
 NT3 typhoid  
 NT2 fungal diseases  
 NT3 mycoses  
 NT3 tinea  
 NT2 parasitic diseases  
 NT3 fascioliasis  
 NT3 filariasis  
 NT3 hydatidosis  
 NT3 malaria  
 NT3 schistosomiasis  
 NT3 trichinosis  
 NT3 trypanosomiasis  
 NT2 rickettsial diseases  
 NT3 typhus  
 NT2 viral diseases  
 NT3 aids  
 NT3 herpes simplex  
 NT3 herpes zoster  
 NT3 infectious hepatitis  
 NT3 influenza  
 NT3 measles  
 NT3 newcastle disease  
 NT3 poliomyelitis  
 NT3 rabies  
 NT1 injuries  
 NT2 bone fractures  
 NT2 burns  
 NT3 flash burns  
 NT3 radiation burns  
 NT2 radiation injuries  
 NT3 osteoradionecrosis  
 NT3 radiation burns  
 NT3 radiodermatitis  
 NT2 wounds  
 NT1 metabolic diseases  
 NT2 diabetes mellitus  
 NT2 rickets  
 NT1 neoplasms  
 NT2 carcinomas  
 NT3 adenomas  
 NT3 angiomas  
 NT3 epitheliomas  
 NT4 melanomas  
 NT3 hepatomas  
 NT2 experimental neoplasms  
 NT3 ehrlich ascites tumor  
 NT2 gliomas  
 NT3 astrocytomas  
 NT2 granulomas  
 NT2 leukemia  
 NT3 myeloid leukemia  
 NT2 lymphomas  
 NT3 hodgkins disease  
 NT3 lymphosarcomas  
 NT2 sarcomas  
 NT3 fibrosarcomas  
 NT3 lymphosarcomas  
 NT3 myosarcomas  
 NT4 rhabdomyosarcomas  
 NT3 osteosarcomas  
 NT1 nervous system diseases  
 NT2 encephalitis  
 NT2 epilepsy  
 NT2 gliomas

NT3 astrocytomas  
 NT2 herpes zoster  
 NT2 myelitis  
 NT3 poliomyelitis  
 NT2 rabies  
 NT1 occupational diseases  
 NT1 respiratory system diseases  
 NT2 asthma  
 NT2 bronchitis  
 NT2 emphysema  
 NT2 pneumoconioses  
 NT3 berylliosis  
 NT2 pneumonia  
 NT3 bronchopneumonia  
 NT1 sense organs diseases  
 NT2 cataracts  
 NT2 conjunctivitis  
 NT1 skeletal diseases  
 NT2 osteomyelitis  
 NT2 osteoporosis  
 NT2 osteoradionecrosis  
 NT2 osteosarcomas  
 NT2 rickets  
 NT2 spondylitis  
 NT1 skin diseases  
 NT2 dermatitis  
 NT3 radiodermatitis  
 NT2 eczema  
 NT2 herpes simplex  
 NT2 psoriasis  
 NT2 telangiectasis  
 NT1 urogenital system diseases  
 NT2 gonorrhea  
 NT2 menstruation disorders  
 NT2 nephritis  
 NT2 nephrosclerosis  
 NT2 reproductive disorders  
 NT2 uremia  
 NT1 vascular diseases  
 NT2 arteriosclerosis  
 NT2 hypertension  
 NT2 ischemia  
 NT2 nephrosclerosis  
 NT2 telangiectasis  
 NT2 thrombosis  
 RT disease incidence  
 RT disease resistance  
 RT disease vectors  
 RT epidemiology  
 RT etiology  
 RT medicine  
 RT pathogenesis  
 RT pathogens  
 RT pathological changes  
 RT pathology  
 RT quarantine  
 RT symptoms

**DISHWASHERS**

INIS: 1993-07-29; ETDE: 1977-01-28

\*BT1 appliances  
 RT cleaning  
 RT electric appliances  
 RT gas appliances  
 RT washing

**DISINFECTANTS**

INIS: 1997-06-17; ETDE: 1975-10-01

BT1 germicides  
 RT antiseptics  
 RT bacteria  
 RT drugs  
 RT infectivity  
 RT pesticides

**disinfection**

INIS: 1975-12-19; ETDE: 2002-06-13  
 USE sterilization

**DISINFESTATION**

NT1 grain disinfestation  
 NT1 radiodisinfestation  
 RT pesticides  
 RT preservation  
 RT sterilization

**disintegration (biological)**

USE decomposition

**disintegration (chemical)**

USE decomposition

**disintegration (fission)**

USE fission

**disintegration (nuclear particles)**

1993-11-05

SEE annihilation  
 SEE particle decay

**disintegration (nuclear)**

USE decay

**DISK MHD GENERATORS**

INIS: 1993-02-19; ETDE: 1979-05-03

UF radial flow mhd generators  
 \*BT1 mhd generators

**disks (accretion)**

INIS: 1984-04-04; ETDE: 2002-06-13

USE accretion disks

**disks (intervertebral)**

INIS: 1984-04-04; ETDE: 2002-06-13

USE cartilage  
 USE vertebrae

**disks (magnetic)**

USE magnetic disks

**DISLOCATION PINNING**

RT cold working  
 RT dislocations  
 RT grain boundaries

**DISLOCATIONS**

SF frank-read source  
 \*BT1 line defects  
 NT1 edge dislocations  
 NT1 screw dislocations  
 RT bordoni peak  
 RT burgers vector  
 RT dislocation pinning  
 RT kikuchi lines  
 RT peierls-nabarro force  
 RT slip  
 RT stacking faults  
 RT superdislocations

**dismantlement (nuclear weapons)**

1994-09-30

USE nuclear weapons dismantlement

**dismantling (fission reactor)**

INIS: 1982-11-30; ETDE: 2002-06-13

USE reactor dismantling

**dismantling (fuel assembly)**

USE fuel assembly dismantling

**dismantling (reactor)**

2000-04-12

USE reactor dismantling

**dispersal (insect)**

USE insect dispersal

**dispersants (chemical)**

INIS: 2000-04-12; ETDE: 1979-07-24

USE surfactants

**disperse systems**

USE dispersions

**DISPERSED STORAGE AND GENERATION**

INIS: 1999-05-13; ETDE: 1980-03-04

RT electric power  
RT electric utilities  
RT energy storage  
RT load management  
RT on-site power generation  
RT power generation  
RT power systems

**DISPERSION HARDENING**

BT1 hardening

**DISPERSION NUCLEAR FUELS**

A dispersion of nuclear fuel particles in a solid.

\*BT1 nuclear fuels  
\*BT1 solid fuels  
RT fuel dispersion reactors  
RT fuel particles

**DISPERSION RELATIONS**

For dispersion of light use OPTICAL DISPERSION.

UF dispersion theory  
UF fracer-fulco method  
SF khuri representation  
RT bifurcation  
RT cdd poles  
RT mandelstam representation  
RT n-d method  
RT partial waves  
RT plasma instability  
RT plasma waves  
RT quantum field theory  
RT scattering  
RT scattering amplitudes  
RT spectral functions

**dispersion theory**

USE dispersion relations

**DISPERSIONS**

For the state of aggregation in materials; if related to wave phenomena see DISPERSION RELATIONS or OPTICAL DISPERSION.

UF disperse systems

NT1 colloids  
NT2 agar  
NT2 alginate acid  
NT2 emulsions  
NT3 microemulsions  
NT3 photographic emulsions  
NT2 foams  
NT3 plastic foams  
NT3 urea-formaldehyde foams  
NT2 gelatin  
NT2 gels  
NT3 hydrogels  
NT3 hydrophylic polymers  
NT2 radiocolloids  
NT3 thorotrast  
NT2 sols  
NT3 aerosols  
NT4 radioactive aerosols  
NT4 smokes  
NT5 tobacco smokes  
NT1 mixtures  
NT2 binary mixtures  
NT2 homogeneous mixtures  
NT3 solutions  
NT4 aqueous solutions  
NT4 fuel solutions  
NT4 hypertonic solutions  
NT4 isotonic solutions  
NT4 leachates

NT4 process solutions

NT4 solid solutions

NT2 mixed solvents

NT2 slurries

NT3 fuel slurries

NT1 suspensions

NT2 slurries

NT3 fuel slurries

NT1 td-nickel

NT1 td-nickel chromium

RT dusts

RT elutriation

RT gases

RT liquids

RT microspheres

RT particle resuspension

RT particle size

RT particles

RT particulates

RT solids

RT sprays

RT total suspended particulates

**dispersive ion waves**

USE ion plasma waves

**DISPLACEMENT FLUIDS**

INIS: 1992-02-03; ETDE: 1983-11-09

UF flooding fluids

UF injection fluids

BT1 fluids

RT enhanced recovery

RT fluid injection

RT well stimulation

**DISPLACEMENT GAGES**

UF position indicators

BT1 measuring instruments

**displacement rates**

INIS: 2000-04-12; ETDE: 1979-09-26

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE atomic displacements

SEE fluid flow

SEE ground motion

SEE seismology

**DISPLACEMENT VENTILATION**

2004-05-28

Ventilation technique in which fresh air is introduced at floor level and used air is extracted at ceiling level on the opposite side of the room, or vice versa.

BT1 ventilation

RT natural convection

RT ventilation systems

**displacements (atomic)**

INIS: 1982-11-29; ETDE: 2002-06-13

USE atomic displacements

**displacements (seismic)**

INIS: 1982-11-29; ETDE: 2002-06-13

USE ground motion

**DISPLAY DEVICES**

UF data display devices

UF data display systems

\*BT1 computer-graphics devices

NT1 interactive display devices

RT cathode ray tubes

RT computer graphics

RT consoles

RT control rooms

RT electronic equipment

RT image tubes

RT images

RT man-machine systems

RT pattern recognition

RT plotters

RT semiconductor devices

**disposable income**

INIS: 2000-04-12; ETDE: 1981-03-17

(Prior to September 1994, this was a valid ETDE descriptor.)

USE income

**disposal (wastes)**

USE waste disposal

**DISPOSAL WELLS**

INIS: 1992-03-25; ETDE: 1984-05-23

BT1 wells

RT brines

RT radioactive waste disposal

RT underground disposal

**disproportionation**

USE oxidation

USE reduction

**DISPUTE SETTLEMENTS**

INIS: 1976-12-08; ETDE: 1993-11-01

(From March 1981 till March 1997

MEDIATION was a valid ETDE descriptor.)

UF settlements (disputes)

SF mediation

RT arbitration

RT courts

RT hearings

RT lawsuits

**DISSIPATION FACTOR**

BT1 dimensionless numbers

RT energy losses

RT heat losses

**DISSOCIATING GASES**

INIS: 1985-12-10; ETDE: 1976-03-11

\*BT1 gases

RT dissociation

**DISSOCIATION**

NT1 predissociation

RT decomposition

RT dissociating gases

RT dissociation energy

RT dissociation heat

RT electrolysis

RT electrolytes

RT ionization

RT photolysis

RT pyrolysis

RT radiolysis

RT reaction kinetics

**DISSOCIATION ENERGY**

For the bond property only; for the reaction property see DISSOCIATION HEAT.

UF energy of dissociation

BT1 energy

RT dissociation

RT formation heat

RT molecular structure

**DISSOCIATION HEAT**

UF heat of dissociation

\*BT1 reaction heat

RT dissociation

RT formation heat

RT thermochemical heat storage

**DISSOLUTION**

NT1 leaching

NT2 microbial leaching

RT dissolvers

RT fractionation

RT solubility

RT solutes

RT solutions

RT solvent extraction

RT solvent properties  
RT solvents

**DISSOLVED GASES**

INIS: 1983-10-14; ETDE: 1980-09-22

UF dissolved oxygen  
\*BT1 gases  
BT1 solutes  
RT anaerobic conditions  
RT biochemical oxygen demand  
RT deaerators  
RT partial pressure  
RT water chemistry  
RT water pollution  
RT water treatment

**dissolved materials**

INIS: 2000-04-12; ETDE: 1982-03-10  
USE solutes

**dissolved oxygen**

INIS: 2000-04-12; ETDE: 1980-09-22  
USE dissolved gases  
USE oxygen

**dissolved solids**

INIS: 1986-05-23; ETDE: 2002-06-13  
USE solutes

**DISSOLVERS**

INIS: 1993-03-24; ETDE: 1976-01-23

BT1 equipment  
RT dissolution

**DISTANCE**

NT1 elementary length  
NT1 interaction range  
NT1 interatomic distances  
RT automation  
RT dimensions  
RT manipulators  
RT radiation protection  
RT range  
RT remote handling  
RT shielding  
RT thickness

**distillate fuel**

INIS: 2000-04-12; ETDE: 1976-03-11  
USE heating oils

**distillate fuel oil**

INIS: 2000-04-12; ETDE: 1976-03-11  
USE heating oils

**DISTILLATES**

2000-04-12

NT1 naphtha  
NT2 ligroin  
NT1 petroleum distillates  
NT2 gas oils  
NT3 diesel fuels  
NT3 fuel oils  
NT4 heating oils  
NT4 residual fuels  
NT3 kerosene

RT distillation  
RT oils  
RT vapors

**DISTILLATION**

1999-07-13

BT1 separation processes  
NT1 destructive distillation  
NT1 solar distillation  
NT1 vacuum distillation  
RT azeotrope  
RT chloride volatility process  
RT demineralization  
RT desalination  
RT distillates  
RT distillation equipment

RT evaporation  
RT evaporators  
RT flash heating  
RT fluoride volatility process  
RT fractionation  
RT petroleum  
RT petroleum refineries  
RT stillage  
RT volatility

**DISTILLATION EQUIPMENT**

INIS: 2000-07-11; ETDE: 1976-09-28

BT1 equipment  
NT1 retorts  
RT distillation  
RT petroleum refineries

**DISTILLERS DRIED GRAINS**

INIS: 2000-04-12; ETDE: 1981-08-04

Residue produced by drying the solid portion of the mash obtained after alcoholic fermentation prior to distillation.

UF ddg  
RT animal feeds  
RT by-products  
RT fermentation  
RT stillage

**distorted wave born approximation**

USE dwba

**DISTORTED WAVE THEORY**

RT dwba  
RT nuclear reaction kinetics

**DISTRIBUTED COLLECTOR****POWER PLANTS**

INIS: 1992-03-11; ETDE: 1978-09-11

\*BT1 solar thermal power plants  
RT msstf

**DISTRIBUTED DATA PROCESSING**

INIS: 1992-03-12; ETDE: 1980-10-27

\*BT1 data processing  
RT information systems

**DISTRIBUTED STRUCTURES**

2004-09-03

Coordinate with relevant descriptor(s) for what is distributed, e.g. THERMAL POWER PLANTS, WASTE PROCESSING PLANTS, HOSPITALS.

RT buildings  
RT computer architecture  
RT energy facilities  
RT modular structures  
RT nuclear facilities  
RT test facilities

**DISTRIBUTION**

1996-03-04

For energy distribution use ENERGY SPECTRA.

UF inclusive distribution  
UF kurtosis  
UF skewness  
NT1 angular distribution  
NT1 spatial distribution  
NT2 mass distribution  
NT1 subcellular distribution  
NT1 tissue distribution  
RT allocations  
RT anisotropy  
RT asymmetry  
RT boltzmann statistics  
RT gauss function  
RT gaussian processes  
RT isotropy  
RT particle kinematics  
RT symmetry

**distribution constants**

ETDE: 2002-06-13

USE distribution functions

**distribution factor (rad doses)**

USE spatial dose distributions

**DISTRIBUTION FUNCTIONS**

UF distribution constants  
UF residence time distribution  
BT1 functions  
RT ion exchange  
RT ion exchange chromatography  
RT plasma  
RT solvent extraction  
RT tail electrons  
RT tail ions

**DISTRICT COOLING**

INIS: 1993-01-15; ETDE: 1975-11-11

BT1 cooling  
RT central heating plants

**DISTRICT HEATING**

BT1 heating  
NT1 geothermal district heating  
NT1 solar district heating  
RT boilers  
RT central heating plants  
RT cogeneration  
RT dual-purpose power plants  
RT geothermal heating systems  
RT heat distribution systems  
RT heat transfer  
RT heating systems  
RT hot water  
RT slowpoke-wnr reactor  
RT space heating  
RT steam  
RT steam generation plants  
RT thermal power plants  
RT thermal transmission ices  
RT waste heat

**district of columbia**

ETDE: 1978-09-11

USE washington dc

**DISTURBANCES**

UF ionospheric effects  
UF perturbations  
NT1 ionospheric storms  
NT2 sudden ionospheric disturbance  
NT2 travelling ionospheric disturbance  
RT magnetic bays  
RT magnetic storms  
RT oscillations  
RT pulsations  
RT variations

**DISULFIDES**

\*BT1 organic sulfur compounds  
NT1 cystine  
NT1 thioctic acid

**disused mineshafts**

INIS: 2000-04-12; ETDE: 1978-05-01

USE abandoned shafts

**DITE TOKAMAK**

INIS: 1981-07-06; ETDE: 1981-08-04

\*BT1 tokamak devices

**DITHIOLS**

UF 1,2-ethanedithiol  
UF dimercaptoethane  
BT1 reagents  
\*BT1 thiols  
NT1 dimercaprol  
NT1 unithiol



**DITHIZONE**

- UF* diphenylthiocarbazono  
 \*BT1 carbazones  
 BT1 chelating agents  
 \*BT1 organic sulfur compounds  
 BT1 reagents

**DIURETICS**

1996-07-18

(Prior to March 1997 CHLOROTHIAZIDE was a valid ETDE descriptor.)

- UF* chlorothiazide  
 BT1 drugs  
 NT1 neohydrin  
 NT1 sorbitol  
 NT1 theobromine  
 NT1 theophylline  
 RT antihypertensive agents  
 RT edema  
 RT kidneys  
 RT urine  
 RT urogenital system diseases

**diurnal variation**

- USE daily variations

**diva tokamak**

INIS: 1981-09-17; ETDE: 1981-08-04

- USE jft-2a tokamak

**divergences (infrared)**

- USE infrared divergences

**divergences (ultraviolet)**

- USE ultraviolet divergences

**DIVERSIFICATION**

INIS: 2000-01-13; ETDE: 1980-03-29

- RT economy  
 RT investment  
 RT technology impacts

**DIVERTORS**

1995-11-21

- NT1 bundle divertors  
 NT1 ergodic divertors  
 NT1 poloidal field divertors  
 NT1 toroidal field divertors  
 RT exhaust systems  
 RT h-mode plasma confinement  
 RT magnetic field configurations  
 RT magnetic surfaces  
 RT plasma impurities  
 RT stellarators

**DIVING OPERATIONS**

INIS: 1993-03-25; ETDE: 1976-03-11

- BT1 underwater operations  
 RT life support systems  
 RT offshore operations  
 RT underwater facilities

**DIVINYLBENZENE**

INIS: 1982-06-09; ETDE: 1979-07-18

- \*BT1 aromatics  
 \*BT1 hydrocarbons

**djakarta irt-2000 reactor**

- USE irt-2000 djakarta reactor

**DJALMAITE**

2000-04-12

- \*BT1 uranium minerals

**DJIBOUTI**

INIS: 1992-05-07; ETDE: 1981-01-30

Formerly AFARS AND ISSAS. Material published before 1981 would be so indexed.

- UF* afars and issas  
 BT1 africa  
 BT1 arab countries

**dlts**

- INIS: 1999-06-23; ETDE: 1983-04-28  
 USE deep level transient spectroscopy

**dmba**

- INIS: 1980-05-14; ETDE: 1979-07-18  
 USE dimethylbenzanthracene

**DME**

- UF* 1,2-dimethoxyethane  
 \*BT1 ethers  
 RT organic solvents

**DMSO**

- UF* dimethyl sulfoxide  
 \*BT1 sulfoxides

**DMTR REACTOR**

- UF* downreay materials testing reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**DNA**

1997-06-17

- UF* deoxypentose nucleic acid  
*UF* deoxyribonucleic acid  
*UF* desoxyribonucleic acid  
 \*BT1 nucleic acids  
 NT1 contigs  
 NT1 oligonucleotides  
 NT1 recombinant dna  
 RT chromosomes  
 RT dna adducts  
 RT dna-ase  
 RT dna-cloning  
 RT dna polymerases  
 RT dna repair  
 RT dna replication  
 RT dna sequencing  
 RT exons  
 RT feulgen method  
 RT gene operons  
 RT genetic engineering  
 RT helical configuration  
 RT host-cell reactivation  
 RT human chromosomes  
 RT in-situ hybridization  
 RT introns  
 RT nucleosomes  
 RT strand breaks

**DNA ADDUCTS**

INIS: 1984-04-04; ETDE: 1983-11-09

- BT1 adducts  
 RT carcinogenesis  
 RT carcinogens  
 RT chemical bonds  
 RT dna  
 RT metabolism  
 RT mutagenesis  
 RT mutagens  
 RT radiomimetic drugs

**DNA-ASE**

Code number 3.1.4.5.

- UF* deoxyribonuclease  
*UF* nuclease (deoxyribonuclease)  
 \*BT1 nucleases  
 NT1 endonucleases  
 RT dna  
 RT nucleoproteins

**DNA BASE TRANSITIONS**

- INIS: 2000-04-12; ETDE: 1987-12-17  
*Changes in the genetic message of an organism by substitution of (usually) one nucleotide for another.*  
 RT dna repair  
 RT mutations

**DNA-CLONING**

- INIS: 1997-06-17; ETDE: 1977-11-10  
 BT1 cloning  
 \*BT1 dna hybridization  
 RT cosmids  
 RT dna  
 RT dna replication  
 RT oligonucleotides  
 RT polymerase chain reaction  
 RT transposons

**DNA DAMAGES**

- INIS: 1998-02-16; ETDE: 1999-08-24  
 NT1 strand breaks  
 RT chromosomal aberrations  
 RT dna repair  
 RT dna replication  
 RT radiation injuries

**DNA HELICASES**

- INIS: 1993-08-16; ETDE: 1984-06-29  
*An enzyme that unwinds segments of damaged DNA in preparation for DNA repair.*  
 \*BT1 enzymes  
 RT dna repair

**DNA HYBRIDIZATION**

- INIS: 2000-01-11; ETDE: 1988-10-27  
 BT1 hybridization  
 \*BT1 nucleic acid hybridization  
 NT1 dna-cloning  
 RT genetic mapping  
 RT hybridomas  
 RT in-situ hybridization  
 RT messenger-rna  
 RT oligonucleotides  
 RT recombinant dna

**DNA METHYLASES**

- INIS: 1993-08-16; ETDE: 1988-04-15  
 \*BT1 lyases  
 RT endonucleases  
 RT methyl transferases  
 RT nucleoproteins

**DNA MISMATCH**

- INIS: 2000-04-12; ETDE: 1984-06-29  
*DNA containing mismatched base pairs can be formed as a result of DNA exchange between non-identical sequences or as a result of errors in DNA replication.*  
 RT dna replication  
 RT gene recombination  
 RT mutations

**DNA POLYMERASES**

- INIS: 1984-06-21; ETDE: 1984-01-27  
 \*BT1 polymerases  
 RT biological repair  
 RT dna  
 RT dna repair  
 RT dna replication  
 RT nucleoproteins  
 RT rna polymerases  
 RT transcription

**DNA REPAIR**

- INIS: 1998-02-16; ETDE: 1984-05-09  
*UF* dark repair  
 \*BT1 biological repair  
 NT1 excision repair  
 RT chromosomes  
 RT dna

RT dna base transitions  
 RT dna damages  
 RT dna helicases  
 RT dna polymerases  
 RT endonucleases  
 RT gene recombination proteins  
 RT human chromosomes  
 RT methyl transferases  
 RT pyrimidine dimers  
 RT strand breaks

**DNA REPLICATION**

1998-02-16

BT1 nucleic acid replication  
 RT cell cycle  
 RT dna  
 RT dna-cloning  
 RT dna damages  
 RT dna mismatch  
 RT dna polymerases  
 RT telomeres  
 RT transcription

**DNA SEQUENCERS**

1994-02-28

\*BT1 laboratory equipment  
 RT automation  
 RT dna sequencing  
 RT measuring instruments

**DNA SEQUENCING**

INIS: 1984-12-04; ETDE: 1984-01-27

*The chemical determination of the sequence of the nucleotides in a strand of DNA.*

BT1 structural chemical analysis  
 RT dna  
 RT dna sequencers  
 RT molecular biology  
 RT molecular structure  
 RT nucleotides

**dnb**

USE departure nucleate boiling

**dnep river**

INIS: 1992-05-13; ETDE: 2002-06-13

USE dnier river

**DNIEPER RIVER**

INIS: 1992-05-13; ETDE: 1992-06-22

UF dnep river  
 \*BT1 rivers  
 RT black sea  
 RT pripet river  
 RT ukraine

**dnp**

USE dinitrophenol

**doca**

1996-10-23

Desoxycorticosterone acetate.

(Until October 1996 this was a valid descriptor.)

USE mineralocorticoids

**document destruction**

INIS: 2000-04-12; ETDE: 1983-03-23

(Prior to September 1994, this was a valid ETDE descriptor.)

SEE legal aspects  
 SEE security

**document retrieval**

USE information retrieval

**DOCUMENT TYPES**

*See scope note for each of the descriptors below for its proper usage.*

UF data forms  
 SF technical writing  
 NT1 bibliographies

NT1 catalogs  
 NT1 dictionaries  
 NT1 directories  
 NT1 environmental impact statements  
 NT1 hearings  
 NT1 indexes  
 NT1 lectures  
 NT1 manuals  
 NT1 patents  
 NT1 proceedings  
 NT1 progress report  
 NT1 regulatory guides  
 NT1 reviews  
 NT1 websites  
 RT abstracts  
 RT safety reports

**DOCUMENTATION**

*The assembling, coding, and disseminating of recorded knowledge.*

RT data compilation  
 RT information retrieval  
 RT information systems  
 RT knowledge preservation  
 RT privacy act  
 RT reporting requirements

**DODECANE**

\*BT1 alkanes

**DODECANOIC ACID**

UF lauric acid

\*BT1 monocarboxylic acids

**DODECYL RADICALS**

UF lauryl radicals

\*BT1 alkyl radicals

**DODEWAARD REACTOR**

Dodewaard, Gelderland, Netherlands.

UF gkn reactor (dodewaard)

\*BT1 bwr type reactors

**DOEL-1 REACTOR**

Doel-Beveren, Flandre, Belgium.

\*BT1 pwr type reactors

**DOEL-2 REACTOR**

Doel-Beveren, Flandre, Belgium.

\*BT1 pwr type reactors

**DOEL-3 REACTOR**

INIS: 1977-09-15; ETDE: 1977-11-10

Doel-Beveren, Flandre, Belgium.

\*BT1 pwr type reactors

**DOEL-4 REACTOR**

INIS: 1981-05-11; ETDE: 1981-06-13

Doel-Beveren, Flandre, Belgium.

\*BT1 pwr type reactors

**DOGS**

UF canines

UF mongrels

\*BT1 mammals

NT1 beagles

RT foxes

RT wolves

**dolantal**

USE pethidine

**DOLLARS**

\*BT1 reactivity units

**DOLOMITE**

*A common rock-forming rhombohedral mineral.*

UF bitter spar

SF pearl spar

\*BT1 carbonate minerals

RT calcite

RT calcium carbonates

RT limestone  
 RT magnesium carbonates

**dolomite rock**

INIS: 1985-12-10; ETDE: 2002-06-13

USE limestone

**dolphins**

INIS: 1991-09-30; ETDE: 1981-06-15

USE cetaceans

**DOMAIN STRUCTURE**

(From January 1975 until March 1996 LANDAU DOMAIN STRUCTURE was a valid ETDE descriptor.)

UF landau domain structure

NT1 bloch wall

RT magnetic properties

**DOMED STRUCTURES**

INIS: 2000-04-12; ETDE: 1980-05-06

UF domes (structures)

BT1 mechanical structures

RT buildings

RT high rooms

RT shells

**domes (structures)**

INIS: 2000-04-12; ETDE: 1980-05-06

USE domed structures

**DOMESTIC ANIMALS**

UF farm animals

UF livestock

BT1 animals

NT1 cattle

NT2 calves

NT2 cows

NT1 goats

NT1 sheep

NT1 swine

NT2 miniature swine

RT agriculture

RT animal breeding

RT buffalo

RT camels

RT grazing

RT rangelands

RT rearing

RT screwworm fly

**domestic crude oil entitlements program**

INIS: 2000-04-12; ETDE: 1979-03-28

USE entitlements program

**DOMESTIC SAFEGUARDS**

BT1 safeguards

**DOMESTIC SUPPLIES**

INIS: 1986-07-09; ETDE: 1978-12-11

*Goods whose source country is the same as the place of use, i.e. native goods not requiring import from another country.*

RT availability

RT exports

RT gross national product

RT imports

RT market

RT shortages

RT supply and demand

RT trade

**domestic wastes**

INIS: 1985-07-18; ETDE: 1980-07-23

(Prior to August 1985 this was a valid descriptor.)

USE municipal wastes

**DOMINANT MUTATIONS**

BT1 mutations

**DOMINIC PROJECT**

- UF* project dominic  
 \*BT1 nuclear explosions  
*RT* atmospheric explosions  
*RT* underwater explosions

**DOMINICAN REPUBLIC**

- BT1 developing countries  
 \*BT1 hispaniola  
 BT1 latin america

**donald c. cook-1 reactor**

- USE cook-1 reactor

**donald c. cook-2 reactor**

- USE cook-2 reactor

**donkeys**

- INIS: 2000-04-12; ETDE: 1978-04-05*  
 USE burros

**DONNAN THEORY**

- RT* diffusion  
*RT* electrolytes  
*RT* osmosis

**DOORS**

- BT1 openings  
 NT1 storm doors  
*RT* air curtains  
*RT* buildings

**DOPA**

- UF* 3,4-dihydroxyphenylalanine  
 \*BT1 amino acids  
 \*BT1 hydroxy acids  
 \*BT1 neuroregulators  
*RT* dopamine  
*RT* phenylalanine

**DOPAMINE**

- \*BT1 amines  
 \*BT1 cardiotonics  
 \*BT1 neuroregulators  
 \*BT1 polyphenols  
 \*BT1 sympathomimetics  
*RT* dopa  
*RT* pyrocatechol  
*RT* spiperone

**DOPED MATERIALS**

- UF* materials (doped)  
 BT1 materials  
*RT* bromine additions  
*RT* chlorine additions  
*RT* crystal doping  
*RT* fluorine additions  
*RT* ion implantation  
*RT* semiconductor materials  
*RT* trace amounts

**doping (crystal)**

- USE crystal doping

**DOPPLER BROADENING**

- BT1 line broadening  
*RT* doppler coefficient  
*RT* doppler effect

**DOPPLER COEFFICIENT**

- BT1 reactivity coefficients  
*RT* doppler broadening  
*RT* temperature coefficient

**DOPPLER EFFECT**

- RT* doppler broadening  
*RT* dsa method  
*RT* red shift  
*RT* spectral shift

**doppler shift attenuation method**

- INIS: 1979-12-20; ETDE: 1980-01-24*  
 USE dsa method

**dopplerons**

- 2000-04-12  
 USE quasi particles

**DORIS STORAGE RING**

- BT1 storage rings

**dormitories**

- INIS: 2000-04-12; ETDE: 1981-01-09*  
 USE residential buildings

**DOSE COMMITMENTS**

- RT* delayed radiation effects  
*RT* dose equivalents  
*RT* dose limits  
*RT* internal irradiation  
*RT* life span  
*RT* medical surveillance  
*RT* radiation doses  
*RT* radionuclide kinetics

**dose distributions**

- USE radiation dose distributions

**DOSE EQUIVALENTS**

- (From January 1975 till April 1997 SIEVERT UNIT was a valid ETDE descriptor.)  
*RT* dose commitments  
*RT* dose limits  
*RT* dosimetry  
*RT* ionizing radiations  
*RT* let  
*RT* quality factor  
*RT* radiation doses  
*RT* tissue-equivalent detectors

**dose fractionation**

- USE fractionated irradiation

**DOSE LIMITS**

- \*BT1 safety standards  
*RT* dose commitments  
*RT* dose equivalents  
*RT* maximum permissible dose  
*RT* radiation doses  
*RT* unscar

**DOSE RATEMETERS**

- UF* ratemeters (dose)  
*RT* dosimetry

**DOSE RATES**

- RT* low dose irradiation  
*RT* pulsed irradiation  
*RT* radiation doses  
*RT* radiation effects  
*RT* temporal dose distributions  
*RT* time dependence

**dose reduction factor**

- INIS: 1984-04-04; ETDE: 1984-05-10*  
 USE efficiency  
 USE radioprotective substances

**dose relative factor**

- INIS: 1984-04-04; ETDE: 1984-05-10*  
 USE efficiency  
 USE radioprotective substances

**DOSE-RESPONSE RELATIONSHIPS**

- RT* acute exposure  
*RT* biological effects  
*RT* biological indicators  
*RT* fractionated irradiation  
*RT* genetically significant dose  
*RT* lethal irradiation  
*RT* low dose irradiation  
*RT* radiation dose distributions  
*RT* radiation doses  
*RT* radiation effects  
*RT* radiosensitivity  
*RT* sublethal irradiation

- RT* supralethal irradiation  
*RT* survival curves  
*RT* toxicity

**DOSEMETERS**

- UF* dosimeters  
*UF* radiation dosimeters  
 BT1 measuring instruments  
 NT1 albedo-neutron dosimeters  
 NT1 biological dosimeters  
 NT1 bragg gray chambers  
 NT1 bubble dosimeters  
 NT1 calorimetric dosimeters  
 NT1 chemical dosimeters  
 NT1 colorimetric dosimeters  
 NT1 condenser ionization chambers  
 NT1 exoelectron dosimeters  
 NT1 extrapolation chambers  
 NT1 luminescent dosimeters  
 NT2 rpl dosimeters  
 NT2 thermoluminescent dosimeters  
 NT1 photographic film dosimeters  
 NT1 ritac dosimeters  
 NT1 ritad dosimeters  
*RT* dosimetry  
*RT* radiation detection  
*RT* radiation detectors  
*RT* radiation doses  
*RT* radiation monitoring  
*RT* radiation monitors  
*RT* scintillation counters  
*RT* semiconductor detectors

**DOSES**

- INIS: 2000-04-12; ETDE: 1976-04-19*  
 NT1 lethal doses  
 NT2 lethal radiation dose  
 NT1 radiation doses  
 NT2 genetically significant dose  
 NT2 integral doses  
 NT2 lethal radiation dose  
 NT2 somatically significant dose  
 NT2 threshold dose

**doses (lethal)**

- INIS: 1986-03-04; ETDE: 2002-06-13*  
 USE lethal doses

**doses (radiation)**

- ETDE: 2002-06-13*  
 USE radiation doses

**dosimeters**

- USE dosimeters

**DOSIMETRY**

- UF* radiation dosimetry  
 NT1 alpha dosimetry  
 NT1 beta dosimetry  
 NT1 electron dosimetry  
 NT1 film dosimetry  
 NT1 gamma dosimetry  
 NT1 ion dosimetry  
 NT1 microdosimetry  
 NT1 neutron dosimetry  
 NT1 personnel dosimetry  
 NT1 pion dosimetry  
 NT1 proton dosimetry  
 NT1 thermoluminescent dosimetry  
 NT1 x-ray dosimetry  
*RT* dose equivalents  
*RT* dose ratemeters  
*RT* dosimeters  
*RT* icru  
*RT* lyoluminescence  
*RT* measuring methods  
*RT* radiation detection  
*RT* radiation dose units  
*RT* radiation doses  
*RT* radiation monitoring  
*RT* radiation protection

RT radiations  
RT ssdl

**DOUBLE BETA DECAY**

INIS: 1983-06-30; ETDE: 1983-07-20  
Decay (*A, Z*) yields (*A, Z*+2), and related reactions.

\*BT1 beta-minus decay

**DOUBLE BONDS**

BT1 chemical bonds  
RT binding energy

**DOUBLE ENVELOPE BUILDINGS**

INIS: 1992-08-25; ETDE: 1981-06-13

UF convective loop houses  
UF double shell houses  
UF double wall houses  
UF envelope houses  
UF thermal envelope houses  
BT1 buildings  
RT passive solar heating systems

**double focusing spectrometers**

USE flat magnetic spectrometers

**DOUBLE GLAZING**

INIS: 2000-04-12; ETDE: 1983-03-23  
Two layers of glass or other material used on windows or solar collectors to reduce heat loss. The still air in the space between the windows acts as a good insulator.

UF thermal insulating glass  
RT coverings  
RT glass  
RT glazing materials  
RT windows

**DOUBLE LABELLING**

BT1 labelling  
RT labelled compounds

**DOUBLE RESONANCE METHODS**

INIS: 1977-03-01; ETDE: 1977-04-12  
Simultaneous excitation of two resonance transitions of different frequencies increasing the sensitivity of high frequency spectroscopy.

RT absorption spectroscopy  
RT eldor  
RT electron spin resonance  
RT endor  
RT nuclear magnetic resonance  
RT optical pumping  
RT zeeman effect

**double shell houses**

INIS: 1992-08-25; ETDE: 1981-06-13

USE double envelope buildings

**double wall houses**

INIS: 1992-08-25; ETDE: 1981-06-13

USE double envelope buildings

**DOUBLET-2 DEVICE**

Octupolar configuration.

\*BT1 tokamak devices

**DOUBLET-3 DEVICE**

INIS: 1976-05-05; ETDE: 1979-04-12

UF diii-d

\*BT1 tokamak devices

**DOUBLET REACTORS**

INIS: 2000-04-12; ETDE: 1978-04-27

\*BT1 tokamak type reactors

**DOUGLAS POINT-1 REACTOR**

Potomac Electric Power Co., Nanjamoy, Maryland, USA. Canceled in 1977 before construction began.

\*BT1 bwr type reactors

**DOUGLAS POINT-2 REACTOR**

Potomac Electric Power Co., Nanjamoy, Maryland, USA. Canceled in 1977 before construction began.

\*BT1 bwr type reactors

**DOUGLAS POINT ONTARIO REACTOR**

INIS: 1975-09-25; ETDE: 1975-12-16

For information indexed before 1976 CANDU REACTOR was used.

UF candu reactor  
UF douglas point power station  
\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

**douglas point power station**

USE douglas point ontario reactor

**douglas point site**

INIS: 2000-04-12; ETDE: 1980-01-24

(Prior to September 1994, this was a valid ETDE descriptor.)

USE maryland  
USE power plants

**dounreay fast reactor**

USE dfr reactor

**dounreay materials testing reactor**

1993-11-05

USE dmtr reactor

**dounreay prototype fast reactor**

2000-04-12

USE pfr reactor

**dow chemical triga-mk-1 reactor**

1993-11-05

USE dow triga-mk-1 reactor

**DOW GASIFICATION PROCESS**

INIS: 1992-07-06; ETDE: 1986-03-04

Pressurized, entrained flow, slagging, slurry-fed gasification.

\*BT1 coal gasification  
RT entrainment

**DOW LIQUEFACTION PROCESS**

INIS: 2000-04-12; ETDE: 1979-07-18

Expendable catalyst system based on emulsion technology, hydrocyclones for partial solids removal, and liquid-liquid extractor.

\*BT1 coal liquefaction

**dow pusher 700**

INIS: 2000-04-12; ETDE: 1977-03-04

USE polyamides

**DOW TRIGA-MK-1 REACTOR**

The Dow Chemical Co., Midland, Michigan, USA.

UF dow chemical triga-mk-1 reactor  
\*BT1 isotope production reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors  
\*BT1 triga type reactors

**dowa process**

INIS: 2000-04-12; ETDE: 1981-08-21

This process is a dual-alkali flue gas desulfurization process which utilizes basic aluminium sulfate solution for sulfur dioxide absorption and limestone for regeneration of the absorbent.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**dowex**

USE organic ion exchangers

**downhole information systems**

INIS: 2000-04-12; ETDE: 1978-12-11

USE mwd systems

**DOWNS SYNDROME**

UF mongolism  
\*BT1 congenital diseases  
\*BT1 congenital malformations  
\*BT1 hereditary diseases  
RT chromosomal aberrations

**DOWNWELLING**

INIS: 2000-04-12; ETDE: 1987-02-13

Process by which a water mass sinks from a shallower to a deeper level.

RT environmental transport  
RT upwelling  
RT water currents

**dowtherm**

2000-04-12

USE biphenyl  
USE phenyl ether

**DOXORUBICIN**

INIS: 1980-11-07; ETDE: 1980-04-14

UF adriamycin  
\*BT1 antibiotics  
\*BT1 antineoplastic drugs  
RT mutagenesis

**dpa**

INIS: 1982-11-29; ETDE: 1980-05-06

Displacements per atom.

USE atomic displacements

**DPCA**

UF diphenylcarbazides  
\*BT1 carbonic acid derivatives  
\*BT1 organic nitrogen compounds

**dpo**

Diphenylphosphine oxide.

USE organic phosphorus compounds

**DPPH**

UF diphenylpicrylhydrazyl  
\*BT1 nitro compounds  
BT1 radicals  
RT hydrazine

**DPSO**

UF diamyl sulfoxide  
UF dipentyl sulfoxide  
\*BT1 sulfoxides

**DR-1 REACTOR**

Risoe National Lab., Roskilde, Denmark.

UF danish reactor-1  
\*BT1 aqueous homogeneous reactors  
\*BT1 enriched uranium reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**DR-2 REACTOR**

Risoe National Lab., Roskilde, Denmark.

UF danish reactor-2  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**DR-3 REACTOR**

Risoe National Lab., Roskilde, Denmark.

UF danish reactor-3  
\*BT1 enriched uranium reactors  
\*BT1 heavy water cooled reactors

- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**draft control systems**

INIS: 2000-04-12; ETDE: 1979-01-30

(Prior to February 1997 this was a valid ETDE descriptor.)

- USE flow regulators
- USE gas flow

**DRAG**

- UF drag coefficient
- RT fluid mechanics
- RT hartmann number

**drag coefficient**

- USE drag

**drag effect**

- USE electrophoresis

**DRAGLINES**

INIS: 2000-04-12; ETDE: 1981-10-24

Excavators operated by pulling buckets on cables toward jibs from which they are suspended.

- \*BT1 earthmoving equipment
- RT excavation
- RT mining equipment

**DRAGON REACTOR**

- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 helium cooled reactors
- \*BT1 htgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors
- \*BT1 thorium reactors

**drain-down systems**

INIS: 2000-04-12; ETDE: 1978-03-03

Components of equipment, e.g. solar collectors, using a method of freeze protection by draining out water when the equipment reaches a dangerously low temperature. Use descriptor for equipment involved, e.g. SOLAR COLLECTORS or SOLAR WATER HEATERS, and the descriptor below.

(Until March 1996 this was a valid ETDE descriptor.)

- USE freeze protection

**DRAINAGE**

INIS: 1984-08-24; ETDE: 1980-03-29

- UF drainage areas
- UF drainage systems
- RT floods
- RT fluid flow
- RT hydrology
- RT mine draining
- RT rivers
- RT runoff
- RT settling ponds
- RT waste water
- RT watersheds

**drainage areas**

INIS: 2000-04-12; ETDE: 1980-03-29

- USE drainage

**drainage systems**

INIS: 2000-04-12; ETDE: 1980-03-29

- USE drainage

**draperies**

INIS: 2000-04-12; ETDE: 1979-02-27

- USE curtains

**DRAWDOWN**

1992-04-08

Reduction of fluid level in reservoirs by intentional withdrawal.

- RT ground water
- RT pumping
- RT reservoir fluids

**DRAWING**

- \*BT1 materials working
- RT cold working

**DREDGE SPOIL**

INIS: 1991-10-11; ETDE: 1978-04-05

- RT dredging
- RT mineral wastes
- RT sediments
- RT solid wastes
- RT spoil banks

**DREDGING**

INIS: 1991-10-11; ETDE: 1978-04-05

- RT dredge spoil
- RT excavation

**DRELL MODEL**

- RT photoproduction

**DRESDEN-1 REACTOR**

Commonwealth Edison Co., Morris, Illinois, USA. Shut down in 1978; decommissioned in 1993.

- \*BT1 bwr type reactors

**DRESDEN-2 REACTOR**

Exelon Generation Co., LLC, Morris, Illinois, USA.

- \*BT1 bwr type reactors

**DRESDEN-3 REACTOR**

Exelon Generation Co., LLC, Morris, Illinois, USA.

- \*BT1 bwr type reactors

**drf**

INIS: 1984-04-04; ETDE: 1984-05-10

Dose Reduction Factor.

- USE efficiency
- USE radioprotective substances

**drift (electron)**

- USE electron drift

**drift (ion)**

- USE ion drift

**drift (plasma)**

- USE plasma drift

**DRIFT CHAMBERS**

- UF multivire drift chambers
- \*BT1 multivire proportional chambers
- NT1 time projection chambers
- RT fermilab collider detector
- RT ion-mobility detectors
- RT projection spark chambers
- RT stanford linear collider detector

**DRIFT INSTABILITY**

- \*BT1 plasma microinstabilities
- RT plasma drift

**drift pumping**

INIS: 2000-04-12; ETDE: 1984-11-09

A subset of plasma rf pumping that pumps perpendicular energy into the trapped ion population at frequencies near the trapped ion bounce frequency. Radial displacements by geodesic curvature drifts are enhanced so that the ions drift out to a limiter.

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE high-frequency heating

**DRIFT TUBES**

- RT linear accelerators

**DRILL BITS**

INIS: 1976-03-25; ETDE: 1975-09-11

- \*BT1 drilling equipment
- \*BT1 tools
- RT drilling
- RT drills
- RT jet drills
- RT machine tools
- RT materials drilling
- RT percussive drills
- RT rotary drills
- RT spark drills

**DRILL CORES**

Cylindrical or columnar pieces of solid rock or sections of soil, taken as samples of an underground formation by a special hollow-type drill bit.

- UF cores (drill)
- RT coring fluids
- RT well logging

**drill cuttings removal**

INIS: 1993-03-23; ETDE: 1983-03-23

- USE cuttings removal

**drill holes**

INIS: 2000-04-12; ETDE: 1985-05-31

- USE boreholes

**DRILL PIPES**

INIS: 1992-03-25; ETDE: 1977-03-08

- \*BT1 drilling equipment
- \*BT1 pipes
- RT drills

**drill ships**

INIS: 2000-04-12; ETDE: 1976-08-04

- USE offshore platforms
- USE ships

**DRILL STEM TESTING**

INIS: 2000-04-12; ETDE: 1977-06-02

Testing involving temporary completion of a well to prove the productive possibilities of an oil or gas strike with the drill stem in the hole.

- BT1 testing
- RT natural gas wells
- RT oil wells

**DRILLING**

1991-08-14

- NT1 directional drilling
- NT1 offshore drilling
- NT1 rock drilling
- NT1 rotary drilling
- NT1 well drilling
- RT cuttings removal
- RT drill bits
- RT drilling fluids
- RT mwd systems
- RT turbodrills
- RT wells

**drilling (materials)**

- USE materials drilling

**drilling (rock)**

- USE rock drilling

**DRILLING EQUIPMENT**

INIS: 1992-03-11; ETDE: 1976-03-11

(From July 1978 till April 1997 CORING EQUIPMENT was a valid ETDE descriptor.)

- UF core barrel
- UF coring equipment
- UF diamond drilling equipment
- BT1 equipment
- NT1 blowout preventers

NT1 drill bits  
 NT1 drill pipes  
 NT1 drilling rigs  
 NT1 drills  
 NT2 jet drills  
 NT2 percussive drills  
 NT2 rotary drills  
 NT3 turbodrills  
 NT2 spark drills  
 NT2 subterranean penetrators  
 RT drilling fluids  
 RT rotary drilling  
 RT well drilling

**DRILLING FLUIDS**

1991-10-11

*Limited to materials used in well drilling.*

UF drilling mud  
 UF lost circulation  
 BT1 fluids  
 RT coring fluids  
 RT cuttings removal  
 RT drilling  
 RT drilling equipment  
 RT rotary drilling  
 RT suspensions

**drilling mud**

1991-10-11

USE drilling fluids

**drilling platforms**

INIS: 1992-04-09; ETDE: 1976-03-11

USE offshore platforms

**DRILLING RIGS**

INIS: 1992-03-25; ETDE: 1975-10-01

*A drill machine complete with all tools and accessory equipment needed to drill boreholes.*

\*BT1 drilling equipment  
 RT well drilling

**drilling risers**

INIS: 2000-04-12; ETDE: 1977-04-12

USE marine risers

**DRILLS**

INIS: 1992-05-08; ETDE: 1977-03-08

\*BT1 drilling equipment  
 NT1 jet drills  
 NT1 percussive drills  
 NT1 rotary drills  
 NT2 turbodrills  
 NT1 spark drills  
 NT1 subterranean penetrators  
 RT drill bits  
 RT drill pipes  
 RT rock drilling  
 RT well drilling

**DRINKING WATER**

UF potable water  
 \*BT1 water  
 RT auxiliary water systems  
 RT beverages  
 RT diet  
 RT food  
 RT fresh water  
 RT ingestion  
 RT water coolers  
 RT water treatment

**DROPLET MODEL**

\*BT1 nuclear models

**DROPLETS**

BT1 particles  
 RT aerosols  
 RT atmospheric precipitations  
 RT atomization  
 RT liquids

RT particle size  
 RT rain  
 RT spray cooling  
 RT sprays  
 RT washout

**DROPWISE CONDENSATION**

BT1 vapor condensation

**DROSOPHILA**

\*BT1 fruit flies

**DROUGHT RESISTANCE**

INIS: 1997-03-14; ETDE: 1997-04-01

RT agriculture  
 RT biological stress  
 RT cultivation techniques  
 RT irrigation  
 RT plant breeding  
 RT plant growth  
 RT water requirements

**DROUGHTS**

INIS: 1992-07-23; ETDE: 1986-07-25

*Extensive periods of abnormally dry weather causing serious hydrologic imbalances.*

RT arid lands  
 RT atmospheric precipitations  
 RT climates  
 RT heat stress  
 RT weather

**DRUG ABUSE**

INIS: 1988-05-13; ETDE: 1982-08-11

RT drugs  
 RT health hazards  
 RT human factors  
 RT occupational safety

**DRUGS**

(From April 1981 to March 1997 HORMONE ANTAGONISTS was a valid ETDE descriptor.)

UF hormone antagonists

UF medicines

UF pharmaceuticals

UF therapeutic agents

NT1 anti-infective agents

NT2 antibiotics

NT3 actinomycin

NT3 bleomycin

NT3 chloramphenicol

NT3 cycloheximide

NT3 doxorubicin

NT3 erythromycin

NT3 mitomycin

NT3 neocarzinostatin

NT3 neomycin

NT3 penicillin

NT3 puromycin

NT3 streptomycin

NT3 streptozocin

NT3 tetracyclines

NT4 oxytetracycline

NT3 valinomycin

NT2 antimicrobial agents

NT3 fudr

NT3 isoniazid

NT3 methylene blue

NT3 quinine

NT3 sulfonamides

NT1 antiandrogens

NT1 antihistaminics

NT1 antimetabolites

NT2 adenines

NT3 kinetin

NT2 aminopterin

NT2 bromouracils

NT3 budr

NT2 deoxyuridine

NT2 ethionine

NT2 fluorodeoxyglucose

NT2 fluorouracils

NT3 fudr

NT2 iodouracils

NT3 iododeoxyuridine

NT2 mercaptopurine

NT2 methotrexate

NT2 thiouracil

NT1 antimetabolic drugs

NT2 actinomycin

NT2 bleomycin

NT2 colchicine

NT2 mitomycin

NT2 nem

NT2 oncovin

NT2 vinblastine

NT1 antineoplastic drugs

NT2 actinomycin

NT2 aminopterin

NT2 bleomycin

NT2 chlorambucil

NT2 doxorubicin

NT2 metronidazole

NT2 misonidazole

NT2 mitomycin

NT2 neocarzinostatin

NT2 puromycin

NT2 streptozocin

NT1 antithyroid drugs

NT2 thiocyanates

NT3 ammonium thiocyanates

NT2 thiouracil

NT2 thiourea

NT1 autonomic nervous system agents

NT2 neuroregulators

NT3 acetylcholine

NT3 adrenaline

NT3 aminobutyric acid

NT3 dopa

NT3 dopamine

NT3 endorphins

NT4 enkephalins

NT3 noradrenaline

NT3 serotonin

NT4 bufotenine

NT2 parasympatholytics

NT3 atropine

NT3 nicotine

NT2 parasympathomimetics

NT3 acetylcholine

NT3 eserine

NT3 nicotine

NT3 pilocarpine

NT2 spiperone

NT2 sympatholytics

NT3 ergotamine

NT3 reserpine

NT2 sympathomimetics

NT3 adrenaline

NT3 amphetamines

NT4 benzedrine

NT3 dopamine

NT3 ephedrine

NT3 noradrenaline

NT3 serotonin

NT4 bufotenine

NT3 tyramine

NT1 cardiovascular agents

NT2 antihypertensive agents

NT3 reserpine

NT2 cardiotonics

NT3 adrenaline

NT3 cardiac glycosides

NT4 digitalis glycosides

NT5 digitoxin

NT5 digoxin

NT4 strophanthins

NT5 ouabain

NT3 dopamine

NT3 noradrenaline  
 NT2 vasoconstrictors  
 NT3 angiotensin  
 NT3 ephedrine  
 NT2 vasodilators  
 NT3 dipyridamole  
 NT3 theobromine  
 NT3 theophylline  
 NT1 central nervous system agents  
 NT2 analeptics  
 NT3 amphetamines  
 NT4 benzedrine  
 NT3 caffeine  
 NT2 central nervous system depressants  
 NT3 analgesics  
 NT4 acetylsalicylic acid  
 NT4 antipyrine  
 NT4 codeine  
 NT4 opium  
 NT5 morphine  
 NT6 thebaine  
 NT4 pethidine  
 NT3 anesthetics  
 NT4 barbiturates  
 NT5 nembital  
 NT5 phenobarbital  
 NT4 cocaine  
 NT4 procaine  
 NT3 anticonvulsants  
 NT4 phenobarbital  
 NT3 antipyretics  
 NT4 acetylsalicylic acid  
 NT4 antipyrine  
 NT4 colchicine  
 NT4 quinine  
 NT3 hypnotics and sedatives  
 NT4 barbiturates  
 NT5 nembital  
 NT5 phenobarbital  
 NT4 chlorpromazine  
 NT4 codeine  
 NT4 reserpine  
 NT3 narcotics  
 NT4 heroin  
 NT4 methadone hydrochloride  
 NT4 opium  
 NT5 morphine  
 NT6 thebaine  
 NT4 pethidine  
 NT2 psychotropic drugs  
 NT3 antidepressants  
 NT4 cocaine  
 NT4 imipramine  
 NT3 hallucinogens  
 NT4 bufotenine  
 NT3 tranquilizers  
 NT4 chlorpromazine  
 NT4 reserpine  
 NT1 diuretics  
 NT2 neohydrin  
 NT2 sorbitol  
 NT2 theobromine  
 NT2 theophylline  
 NT1 hematologic agents  
 NT2 anticoagulants  
 NT3 coumarin  
 NT3 heparin  
 NT3 psoralen  
 NT2 blood substitutes  
 NT3 dextran  
 NT3 pectins  
 NT3 pvp  
 NT2 coagulants  
 NT3 protamines  
 NT2 fibrinolytic agents  
 NT3 fibrinolysin  
 NT3 plasminogen  
 NT3 urokinase  
 NT2 hematinics

NT3 folic acid  
 NT3 intrinsic factor  
 NT3 vitamin b-12  
 NT1 immunosuppressive drugs  
 NT2 cyclosporine  
 NT2 endoxan  
 NT1 lipotropic factors  
 NT2 betaine  
 NT2 choline  
 NT2 ethionine  
 NT2 inositol  
 NT2 methionine  
 NT2 phytic acid  
 NT2 thioctic acid  
 NT1 radiomimetic drugs  
 NT2 neocarcinostatin  
 NT1 radiopharmaceuticals  
 NT1 radioprotective substances  
 NT2 beta-aminoethyl isothiurea  
 NT2 cystamine  
 NT2 cystaphos  
 NT2 cysteamine  
 NT2 dimercaprol  
 NT2 dtpa  
 NT2 gammaphos  
 NT2 glutathione  
 NT2 hydroxytryptophan  
 NT2 kallikrein  
 NT2 mercaptoethylguanidine  
 NT2 mercaptopropylamine  
 NT2 mexamine  
 NT2 mpg  
 NT2 penicillamine  
 NT2 serotonin  
 NT3 bufotenine  
 NT1 radiosensitizers  
 NT2 fudr  
 NT2 metronidazole  
 NT2 misonidazole  
 NT2 nem  
 NT2 triacetoneamine-n-oxyl  
 RT antiseptics  
 RT chelating agents  
 RT chemotherapy  
 RT clinical trials  
 RT consumer products  
 RT disinfectants  
 RT drug abuse  
 RT food additives  
 RT medical supplies  
 RT medicinal plants  
 RT microbial drug resistance  
 RT mutagens  
 RT ointments  
 RT pharmacology  
 RT teratogens  
 RT therapy  
 RT toxicity  
 RT vitamins  
 RT xenobiotics

#### DRUM WALLS

*INIS: 1992-08-25; ETDE: 1979-02-27*  
*UF baer walls*  
 \*BT1 passive solar cooling systems  
 \*BT1 passive solar heating systems  
 BT1 walls  
 RT buildings

#### DRY ASHING

*UF ashing (dry)*  
 RT combustion  
 RT sample preparation

#### dry deposition

*INIS: 2000-04-12; ETDE: 1980-01-15*  
 USE deposition

#### DRY HOLES

*INIS: 2000-04-12; ETDE: 1977-06-02*  
*Wells that are not expected to produce hydrocarbons in sufficient quantities to make their development into producing wells a worthwhile proposition. They may or may not have shown the presence of oil or gas.*  
 BT1 wells  
 RT natural gas wells  
 RT oil wells

#### DRY SCRUBBERS

*INIS: 1992-07-06; ETDE: 1981-07-18*  
*Scrubbers in which a slurry is sprayed, or dry powder is injected, into the flue gas to react with the sulfur dioxide and collected in a baghouse or precipitator.*  
 \*BT1 scrubbers  
 RT desulfurization  
 RT flue gas  
 RT spray drying

#### dry-steam systems

*INIS: 2000-04-12; ETDE: 1976-03-25*  
 USE vapor-dominated systems

#### DRY STORAGE

*INIS: 1996-04-16; ETDE: 1981-06-13*  
 BT1 storage  
 RT away-from-reactor storage  
 RT radioactive waste storage  
 RT spent fuel storage  
 RT wet storage

#### dry-type cooling towers

2000-04-12  
 USE closed-cycle cooling systems  
 USE cooling towers

#### DRYERS

*INIS: 1976-10-07; ETDE: 1975-10-01*  
 (From January 1977 to February 1997 DEHYDRATORS was a valid ETDE descriptor.)  
*UF dehydrators*  
 NT1 clothes dryers  
 NT1 microwave dryers  
 NT1 solar dryers  
 RT dehumidifiers  
 RT desiccants  
 RT dewatering equipment  
 RT drying  
 RT evaporators

#### DRYING

(From December 1978 to February 1997 DEHUMIDIFICATION was a valid ETDE descriptor.)  
*SF dehumidification*  
 NT1 solar drying  
 NT1 spray drying  
 RT coal preparation  
 RT curing  
 RT dehydration  
 RT desiccants  
 RT dryers  
 RT evaporation  
 RT lyophilization  
 RT solar kilns

#### DRYOUT

RT burnout  
 RT heat flux  
 RT hot spots  
 RT rewetting

#### DSA METHOD

*INIS: 1979-12-20; ETDE: 1980-01-24*  
*Used for the determination of lifetimes of nuclear levels.*  
*UF doppler shift attenuation method*

BT1 counting techniques  
 RT doppler effect  
 RT lifetime

**dsnadns**

2000-04-12

(Prior to June 1996 BERYLLON was a valid ETDE descriptor.)

USE arsonic acids  
 USE azo dyes  
 USE dicarboxylic acids  
 USE naphthols  
 USE sulfonic acids

**dtu**

USE differential thermal analysis

**dto**

1996-06-19

USE deuterium compounds  
 USE tritium oxides

**DTPA**

*Diethylenetriaminepentaacetic acid.*

UF *diethylenetriaminepentaacetic acid*  
 \*BT1 amino acids  
 BT1 chelating agents  
 \*BT1 radioprotective substances

**DUAL ABSORPTION MODEL**

\*BT1 particle models

**DUAL CYCLE COOLING SYSTEMS**

\*BT1 reactor cooling systems

**dual energy use systems**

INIS: 2000-04-12; ETDE: 1978-11-14

(From November 1978 till February 1997 DEUS was used for this concept in ETDE.)

USE cogeneration

**DUAL-FUEL ENGINES**

INIS: 1992-07-22; ETDE: 1977-07-23

*Usually diesel engines modified to include a gas supply system for operation in dual mode.*

\*BT1 internal combustion engines  
 RT diesel engines  
 RT fuel gas

**DUAL-ISOTOPE SUBTRACTION TECHNIQUE**

1992-07-10

(Until July 1992, this descriptor was spelled DUAL-ISOTOPESUBTRACTION TEC.)

\*BT1 tracer techniques  
 RT radiopharmaceuticals  
 RT scintiscanning

**DUAL-PURPOSE POWER PLANTS**

INIS: 1977-01-26; ETDE: 1976-03-22

UF *cogeneration plants*  
 SF *mcpp*  
 SF *modular cogeneration power plants*  
 BT1 power plants  
 RT cogeneration  
 RT desalination  
 RT desalination plants  
 RT district heating  
 RT power generation  
 RT process heat  
 RT refuse-fueled power plants

**DUAL RESONANCE MODEL**

\*BT1 veneziano model  
 RT duality

**DUAL TEMPERATURE PROCESS**

ETDE: 1975-09-11

UF *gs process*  
 \*BT1 isotope separation  
 BT1 isotopic exchange  
 RT heavy water

**DUALITY**

*Correlation between resonance poles and scattering amplitudes.*

RT dual resonance model  
 RT scattering amplitudes

**DUANE ARNOLD-1 REACTOR**

*Nuclear Management Co., LLC, Palo, Iowa, USA.*

\*BT1 bwr type reactors

**dubai**

INIS: 1992-05-07; ETDE: 1976-08-05

USE united arab emirates

**DUBNA**

2000-04-12

\*BT1 russian federation

**dubna, jinr**

INIS: 1975-10-09; ETDE: 2002-06-13

USE jinr

**dubna ibr-2 reactor**

INIS: 1978-01-13; ETDE: 2002-06-13

USE ibr-2 reactor

**dubna pulsed reactor**

2000-04-12

USE ibr-2 reactor

**DUBNA SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

**DUBNIUM**

2004-03-18

(Prior to March 2004 ELEMENT 105 was used for this element.)

UF *eka-tantalum*

UF *element 105*

UF *hahnium*

UF *ummilpentium*

\*BT1 transactinide elements

**DUBNIUM 255**

2004-03-18

(Prior to March 2004 ELEMENT 105 255 was used for this concept.)

UF *element 105 255*

\*BT1 alpha decay radioisotopes

\*BT1 dubnium isotopes

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**DUBNIUM 256**

2004-03-18

(Prior to March 2004 ELEMENT 105 256 was used for this concept.)

UF *element 105 256*

\*BT1 alpha decay radioisotopes

\*BT1 dubnium isotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**DUBNIUM 257**

2004-03-18

(Prior to March 2004 ELEMENT 105 257 was used for this concept.)

UF *element 105 257*

\*BT1 alpha decay radioisotopes

\*BT1 dubnium isotopes

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**DUBNIUM 258**

2004-03-19

(Prior to March 2004 ELEMENT 105 258 was used for this concept.)

UF *element 105 258*

\*BT1 alpha decay radioisotopes

\*BT1 dubnium isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**DUBNIUM 259**

2004-03-19

(Prior to March 2004 ELEMENT 105 259 was used for this concept.)

UF *element 105 259*

\*BT1 dubnium isotopes

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**DUBNIUM 260**

2004-03-19

(Prior to March 2004 ELEMENT 105 260 was used for this element.)

UF *element 105 260*

\*BT1 alpha decay radioisotopes

\*BT1 dubnium isotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**DUBNIUM 261**

2004-03-19

(Prior to March 2004 ELEMENT 105 261 was used for this concept.)

UF *element 105 261*

\*BT1 alpha decay radioisotopes

\*BT1 dubnium isotopes

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**DUBNIUM 262**

2004-03-19

(Prior to March 2004 ELEMENT 105 262 was used for this concept.)

UF *element 105 262*

\*BT1 alpha decay radioisotopes

\*BT1 dubnium isotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**DUBNIUM 263**

2004-03-19

(Prior to March 2004 ELEMENT 105 263 was used for this concept.)

UF *element 105 263*

\*BT1 alpha decay radioisotopes

\*BT1 dubnium isotopes

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**DUBNIUM 264**

2007-01-24

\*BT1 dubnium isotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei



**DUBNIUM 265**

2007-01-24

- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**DUBNIUM 266**

2007-01-24

- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**DUBNIUM 267**

2007-01-24

- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 268**

2006-10-11

- \*BT1 days living radioisotopes
- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 269**

2007-01-24

- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**DUBNIUM COMPOUNDS**

2004-03-19

(Prior to March 2004 ELEMENT 105 COMPOUNDS was used for this concept.)

- UF *element 105 compounds*
- \*BT1 transactinide compounds

**DUBNIUM ISOTOPES**

2004-03-18

(Prior to March 2004 ELEMENT 105 ISOTOPES was used for this concept.)

- UF *element 105 isotopes*
- BT1 isotopes
- NT1 dubnium 255
- NT1 dubnium 256
- NT1 dubnium 257
- NT1 dubnium 258
- NT1 dubnium 259
- NT1 dubnium 260
- NT1 dubnium 261
- NT1 dubnium 262
- NT1 dubnium 263
- NT1 dubnium 264
- NT1 dubnium 265
- NT1 dubnium 266
- NT1 dubnium 267
- NT1 dubnium 268
- NT1 dubnium 269

**DUCKS**

- \*BT1 fowl

**DUCTILE-BRITTLE TRANSITIONS**

- UF *transitions (ductile-brittle)*
- RT brittleness
- RT ductility
- RT embrittlement
- RT transition temperature

**DUCTILITY**

- \*BT1 tensile properties
- RT brittle-ductile transitions
- RT ductile-brittle transitions
- RT plasticity

**DUCTS**

- UF *ventilation ducts*
- RT diffusers
- RT fuel channels
- RT openings
- RT pipes
- RT tubes
- RT wind tunnels

**ducts (tear)**

INIS: 1977-07-05; ETDE: 2002-06-13

- USE lacrimal ducts

**DUDVAH RIVER**

INIS: 2001-12-06; ETDE: 2002-01-18

- \*BT1 rivers
- RT slovakia

**DUKOVANY-1 REACTOR**

1997-08-20

*Dukovany, South Moravia, Czech Republic.*

- SF *dukovany v-2 reactor*
- SF *v-2 reactor (dukovany)*
- \*BT1 wwer type reactors

**DUKOVANY-2 REACTOR**

1997-08-20

*Dukovany, South Moravia, Czech Republic.*

- SF *dukovany v-2 reactor*
- SF *v-2 reactor (dukovany)*
- \*BT1 wwer type reactors

**DUKOVANY-3 REACTOR**

1997-08-20

*Dukovany, South Moravia, Czech Republic.*

- SF *dukovany v-2 reactor*
- SF *v-2 reactor (dukovany)*
- \*BT1 wwer type reactors

**DUKOVANY-4 REACTOR**

1997-08-20

*Dukovany, South Moravia, Czech Republic.*

- SF *dukovany v-2 reactor*
- SF *v-2 reactor (dukovany)*
- \*BT1 wwer type reactors

**dukovany v-2 reactor**

1997-08-20

(Until August 1997 this was a valid descriptor.)

- SEE dukovany-1 reactor
- SEE dukovany-2 reactor
- SEE dukovany-3 reactor
- SEE dukovany-4 reactor

**DUMAND PROJECT**

INIS: 1980-04-02; ETDE: 1979-09-06

*Deep Underwater Muon And Neutrino Detection Project.*

- RT acoustic detection
- RT coordinated research programs
- RT international cooperation
- RT muon detection
- RT neutrino detection
- RT underwater
- RT underwater facilities

**dumontite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE phosphate minerals
- USE uranium minerals

**dunes**

INIS: 2000-04-12; ETDE: 1984-08-20

*Low mounds, ridges, banks, or hills of loose, windblown granular material, usually sand, capable of movement.*

(Prior to February 1997 this was a valid ETDE descriptor.)

- SEE sand

**DUNGENESS-A REACTOR***Dungeness Point, Kent, United Kingdom.*

- \*BT1 carbon dioxide cooled reactors
- \*BT1 magnox type reactors
- \*BT1 thermal reactors

**DUNGENESS-B REACTOR***Romney Marsh, Kent, United Kingdom.*

- \*BT1 agr type reactors
- \*BT1 carbon dioxide cooled reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**duodenum**

USE small intestine

**DUOPLASMATRONS**

- BT1 ion sources
- \*BT1 plasmatrons

**DURALUMIN**

1993-10-03

- \*BT1 alloy-al95cu4

**DURANALIUM**

2000-04-12

- \*BT1 aluminium base alloys
- \*BT1 magnesium alloys

**DURANICKEL**

2000-04-12

- \*BT1 aluminium alloys
- \*BT1 copper additions
- \*BT1 iron additions
- \*BT1 manganese additions
- \*BT1 nickel base alloys
- \*BT1 silicon additions
- \*BT1 titanium additions

**DURCO**

2000-04-12

- \*BT1 chromium-nickel steels

**DURENE**UF *1,2,4,5-tetramethylbenzene*

- \*BT1 aromatics
- \*BT1 hydrocarbons

**DURIRON**

2000-04-12

- \*BT1 carbon additions
- \*BT1 iron base alloys
- \*BT1 manganese additions
- \*BT1 silicon alloys

**DUST COLLECTORS**

INIS: 1976-10-07; ETDE: 1976-02-19

- UF *collectors (dust)*
- RT dusts
- RT electrostatic precipitators
- RT fabric filters
- RT filters
- RT inertial separators
- RT scrubbers
- RT separation processes

**DUST COOLED REACTORS**

- BT1 reactors

**dust fueled reactors**

USE fluid fueled reactors

**DUSTS**

- UF *respirable dusts*
- NT1 cosmic dust
- RT acoustic agglomerators
- RT aerosols
- RT dispersions
- RT dust collectors
- RT elutriation
- RT filters
- RT inhalation
- RT lunar materials

RT overburden  
 RT particle resuspension  
 RT particle size  
 RT particles  
 RT particulates  
 RT pneumoconioses  
 RT powders  
 RT respirators  
 RT rock dusting  
 RT sedimentation

**DWARF STARS**

BT1 stars  
 NT1 black dwarf stars  
 NT1 red dwarf stars  
 NT1 white dwarf stars  
 RT helium burning

**DWBA**

UF approximation (distorted-wave)  
 UF distorted wave born approximation  
 \*BT1 born approximation  
 RT distorted wave theory  
 RT nuclear reaction kinetics  
 RT scattering

**DYE LASERS**

1999-08-16

Based on transitions between vibrationally broadened electronic states of polyatomic molecules.

\*BT1 liquid lasers  
 RT chemical lasers

**DYES**

1996-07-18

UF murexide  
 UF purpuric acid  
 SF chemicals  
 NT1 acridine orange  
 NT1 alizarin  
 NT1 azo dyes  
 NT2 eriochrome dyes  
 NT2 evans blue  
 NT2 methyl orange  
 NT2 methyl red  
 NT2 toluidine blue  
 NT2 trypan blue  
 NT1 curcumin  
 NT1 cyanine dyes  
 NT1 eosin  
 NT1 fluorescein  
 NT2 erythrosine  
 NT1 hematoxilin  
 NT1 indigo  
 NT1 indocyanine green  
 NT1 morin  
 NT1 phthalocyanines  
 NT1 pyrocatechol violet  
 NT1 quinizarin  
 NT1 rhodamines  
 NT1 rose bengal  
 NT1 squarylium dyes  
 NT1 triphenylmethane dyes  
 NT2 methyl violet  
 NT2 methylthymol blue  
 NT1 xlenol orange  
 RT anthraquinones  
 RT carminic acid  
 RT chromotropic acid  
 RT colorimetric dosimeters  
 RT diazo compounds  
 RT inks  
 RT organic solar cells  
 RT photochromic materials  
 RT stains

**dymac system**

INIS: 2000-04-12; ETDE: 1982-11-08  
 USE nuclear materials management  
 USE plutonium

**DYNAMIC FUNCTION STUDIES**

INIS: 1975-10-29; ETDE: 1975-12-16  
 UF dynamic studies (biological)  
 RT biological functions  
 RT biological markers  
 RT equilibrium  
 RT flow rate  
 RT radionuclide kinetics  
 RT radiopharmaceuticals  
 RT sequential scanning  
 RT structure-activity relationships  
 RT tracer techniques

**dynamic inducer rotors**

INIS: 2000-04-12; ETDE: 1978-09-13  
 USE tipvane rotors

**DYNAMIC LOADS**

INIS: 1981-02-27; ETDE: 1976-08-04  
 UF load (dynamic)  
 UF loads (dynamic)  
 NT1 wind loads  
 RT deformation  
 RT mechanical tests  
 RT mechanical vibrations  
 RT pipe whip  
 RT ratcheting  
 RT soil-structure interactions  
 RT static loads  
 RT stresses

**DYNAMIC MASS SPECTROMETERS**

UF r-f mass spectrometers  
 \*BT1 mass spectrometers  
 NT1 energy balance mass spectrometers  
 NT1 time-of-flight mass spectrometers

**dynamic materials accountability system**

INIS: 2000-04-12; ETDE: 1982-11-08  
 USE nuclear materials management  
 USE plutonium

**DYNAMIC PROGRAMMING**

BT1 calculation methods  
 RT econometrics  
 RT linear programming  
 RT mathematical models  
 RT nonlinear programming  
 RT optimization

**dynamic studies (biological)**

INIS: 1975-10-29; ETDE: 1975-12-16  
 USE dynamic function studies

**dynamical boson-fermion symmetry**

1984-12-04  
 USE boson-fermion symmetry

**DYNAMICAL GROUPS**

BT1 symmetry groups  
 NT1 o groups  
 RT boson-fermion symmetry

**DYNAMICS**

INIS: 1982-12-06; ETDE: 1979-02-27  
 Study of the motion of a system of particles under the influence of forces.  
 BT1 mechanics  
 NT1 beam dynamics  
 NT2 beam bunching  
 NT2 betatron oscillations  
 NT2 phase oscillations  
 NT2 synchrotron oscillations  
 RT bifurcation  
 RT collisions  
 RT kinetics  
 RT limit cycle

**dynamics (beam)**

2000-04-12  
 USE beam dynamics

**DYNAMITE**

\*BT1 chemical explosives

**DYNAMITRONS**

\*BT1 electrostatic accelerators  
 RT tandem electrostatic accelerators

**DYNAMOMETERS**

BT1 measuring instruments

**DYNODES**

RT electron multipliers

**DYONS**

Hypothetical particles endowed with both electric and magnetic charges.  
 \*BT1 postulated particles

**DYSON REPRESENTATION**

RT boson expansion  
 RT quantum field theory

**DYSPROSIUM**

\*BT1 rare earths

**DYSPROSIUM 138**

2007-10-22

\*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 rare earth nuclei

**DYSPROSIUM 139**

2007-10-22

\*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 rare earth nuclei

**DYSPROSIUM 140**

2004-10-19

\*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**DYSPROSIUM 141**

INIS: 1984-08-23; ETDE: 1984-09-05

\*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**DYSPROSIUM 142**

INIS: 1987-02-25; ETDE: 1987-05-01

\*BT1 dysprosium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**DYSPROSIUM 143**

INIS: 1984-08-23; ETDE: 1984-09-05

\*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**DYSPROSIUM 144**

INIS: 1986-10-29; ETDE: 1986-11-20

\*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**DYSPROSIUM 145**

*INIS: 1982-08-27; ETDE: 1982-07-08*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**DYSPROSIUM 146**

*1981-09-17*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**DYSPROSIUM 147**

*ETDE: 1975-07-29*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**DYSPROSIUM 148**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 149**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 150**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 151**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 152**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 153**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes

- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 154**

- \*BT1 alpha decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**DYSPROSIUM 154 TARGET**

*INIS: 1977-09-15; ETDE: 1977-11-10*

- BT1 targets

**DYSPROSIUM 155**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 156**

- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**DYSPROSIUM 156 TARGET**

*INIS: 1976-02-11; ETDE: 1976-07-12*

- BT1 targets

**DYSPROSIUM 157**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 158**

- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**DYSPROSIUM 158 TARGET**

*INIS: 1975-09-26; ETDE: 1976-07-09*

- BT1 targets

**DYSPROSIUM 159**

- \*BT1 days living radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 160**

- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**DYSPROSIUM 160 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**DYSPROSIUM 161**

- \*BT1 dysprosium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**DYSPROSIUM 161 REACTIONS**

*1984-11-30*

- \*BT1 heavy ion reactions

**DYSPROSIUM 161 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**DYSPROSIUM 162**

- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**DYSPROSIUM 162 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**DYSPROSIUM 163**

- \*BT1 dysprosium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**DYSPROSIUM 163 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**DYSPROSIUM 164**

- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**DYSPROSIUM 164 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**DYSPROSIUM 165**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 165 TARGET**

*INIS: 1981-08-06; ETDE: 1981-09-22*

- BT1 targets

**DYSPROSIUM 166**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**DYSPROSIUM 167**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 168**

*INIS: 1982-08-27; ETDE: 1980-05-06*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 169**

*INIS: 1990-12-05; ETDE: 1991-01-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**DYSPROSIUM 170**

*2007-10-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**DYSPROSIUM 171**

2007-10-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**DYSPROSIUM 172**

2007-10-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**DYSPROSIUM 173**

2007-10-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**DYSPROSIUM ADDITIONS**

*Alloys containing not more than 1% Dy are listed here.*

- \*BT1 dysprosium alloys
- \*BT1 rare earth additions

**DYSPROSIUM ALLOYS**

*Alloys containing more than 1% Dy.*

- \*BT1 rare earth alloys
- NT1 dysprosium additions
- NT1 dysprosium base alloys

**DYSPROSIUM BASE ALLOYS**

- \*BT1 dysprosium alloys

**DYSPROSIUM BORIDES**

- \*BT1 borides
- \*BT1 dysprosium compounds

**DYSPROSIUM BROMIDES**

- \*BT1 bromides
- \*BT1 dysprosium compounds

**DYSPROSIUM CARBIDES**

- \*BT1 carbides
- \*BT1 dysprosium compounds

**DYSPROSIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 dysprosium compounds

**DYSPROSIUM COMPLEXES**

- \*BT1 rare earth complexes

**DYSPROSIUM COMPOUNDS**

1997-06-17

- BT1 rare earth compounds
- NT1 dysprosium borides
- NT1 dysprosium bromides
- NT1 dysprosium carbides
- NT1 dysprosium chlorides
- NT1 dysprosium fluorides
- NT1 dysprosium hydrides
- NT1 dysprosium hydroxides
- NT1 dysprosium iodides
- NT1 dysprosium nitrates
- NT1 dysprosium nitrides
- NT1 dysprosium oxides
- NT1 dysprosium perchlorates
- NT1 dysprosium phosphates
- NT1 dysprosium phosphides
- NT1 dysprosium selenides
- NT1 dysprosium silicates
- NT1 dysprosium silicides
- NT1 dysprosium sulfates
- NT1 dysprosium sulfides
- NT1 dysprosium tellurides
- NT1 dysprosium tungstates

**DYSPROSIUM FLUORIDES**

- \*BT1 dysprosium compounds

- \*BT1 fluorides

**DYSPROSIUM HYDRIDES**

- \*BT1 dysprosium compounds
- \*BT1 hydrides

**DYSPROSIUM HYDROXIDES**

- \*BT1 dysprosium compounds
- \*BT1 hydroxides

**DYSPROSIUM IODIDES**

- \*BT1 dysprosium compounds
- \*BT1 iodides

**DYSPROSIUM IONS**

- \*BT1 ions

**DYSPROSIUM ISOTOPES**

- BT1 isotopes
- NT1 dysprosium 138
- NT1 dysprosium 139
- NT1 dysprosium 140
- NT1 dysprosium 141
- NT1 dysprosium 142
- NT1 dysprosium 143
- NT1 dysprosium 144
- NT1 dysprosium 145
- NT1 dysprosium 146
- NT1 dysprosium 147
- NT1 dysprosium 148
- NT1 dysprosium 149
- NT1 dysprosium 150
- NT1 dysprosium 151
- NT1 dysprosium 152
- NT1 dysprosium 153
- NT1 dysprosium 154
- NT1 dysprosium 155
- NT1 dysprosium 156
- NT1 dysprosium 157
- NT1 dysprosium 158
- NT1 dysprosium 159
- NT1 dysprosium 160
- NT1 dysprosium 161
- NT1 dysprosium 162
- NT1 dysprosium 163
- NT1 dysprosium 164
- NT1 dysprosium 165
- NT1 dysprosium 166
- NT1 dysprosium 167
- NT1 dysprosium 168
- NT1 dysprosium 169
- NT1 dysprosium 170
- NT1 dysprosium 171
- NT1 dysprosium 172
- NT1 dysprosium 173

**DYSPROSIUM NITRATES**

- \*BT1 dysprosium compounds
- \*BT1 nitrates

**DYSPROSIUM NITRIDES**

- \*BT1 dysprosium compounds
- \*BT1 nitrides

**DYSPROSIUM OXIDES**

- \*BT1 dysprosium compounds
- \*BT1 oxides

**DYSPROSIUM PERCHLORATES**

1996-07-18

(From July 1996 to November 2007

DYSPROSIUM COMPOUNDS + PERCHLORATES was used for this concept.)

- \*BT1 dysprosium compounds
- \*BT1 perchlorates

**DYSPROSIUM PHOSPHATES**

1975-10-23

- \*BT1 dysprosium compounds
- \*BT1 phosphates

**DYSPROSIUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1977-04-12

- \*BT1 dysprosium compounds
- \*BT1 phosphides

**DYSPROSIUM SELENIDES**

INIS: 1982-02-10; ETDE: 1977-12-22

- \*BT1 dysprosium compounds
- \*BT1 selenides

**DYSPROSIUM SILICATES**

INIS: 1991-09-16; ETDE: 1982-12-01

- \*BT1 dysprosium compounds
- \*BT1 silicates

**DYSPROSIUM SILICIDES**

- \*BT1 dysprosium compounds
- \*BT1 silicides

**DYSPROSIUM SULFATES**

- \*BT1 dysprosium compounds
- \*BT1 sulfates

**DYSPROSIUM SULFIDES**

- \*BT1 dysprosium compounds
- \*BT1 sulfides

**DYSPROSIUM TELLURIDES**

INIS: 1978-02-23; ETDE: 1977-10-20

- \*BT1 dysprosium compounds
- \*BT1 tellurides

**DYSPROSIUM TUNGSTATES**

INIS: 2000-04-12; ETDE: 1977-06-02

- \*BT1 dysprosium compounds
- \*BT1 tungstates

**e-1422 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

- USE f1-1420 mesons

**e-beam type reactors**

INIS: 1982-11-29; ETDE: 1976-09-15

- USE electron beam fusion reactors

**E CENTERS**

- \*BT1 color centers

**E CODES**

- BT1 computer codes

**e layer**

- USE e region

**E REGION**

- UF e layer
- \*BT1 ionosphere
- NT1 sporadic e

**E STATES**

- BT1 energy levels

**E0-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

*Electric monopole transitions.*

- UF electric monopole transitions
- \*BT1 multipole transitions

**E1-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

*Electric dipole transitions.*

- UF electric dipole transitions
- \*BT1 multipole transitions

**E2-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

*Electric quadrupole transitions.*

- UF electric quadrupole transitions
- \*BT1 multipole transitions

**E3-TRANSITIONS***INIS: 1978-02-23; ETDE: 1978-04-28**Electric octupole transitions.**UF electric octupole transitions**\*BT1 multipole transitions***E4-TRANSITIONS***INIS: 1978-02-23; ETDE: 1978-04-28**Electric hexadecapole transitions.**UF electric hexadecapole transitions**\*BT1 multipole transitions***early notification convention***INIS: 1989-02-24; ETDE: 1989-03-20**USE cenna***EARLY RADIATION EFFECTS***UF early radiation injuries**UF immediate radiation effects**\*BT1 biological radiation effects**RT biological indicators**RT delayed radiation effects**RT time dependence***early radiation injuries***USE early radiation effects**USE radiation injuries***ears***USE auditory organs***earth (electric grounds)***INIS: 1982-06-09; ETDE: 2002-06-13**USE electric grounds***EARTH ATMOSPHERE***NT1 earth magnetosphere**NT2 magnetotail**NT2 plasma sheet**NT2 plasmopause**NT2 plasmasphere**NT1 exosphere**NT1 ionosphere**NT2 c region**NT2 d region**NT2 e region**NT3 sporadic e**NT2 f region**NT3 f1 layer**NT3 f2 layer**NT3 spread f**NT1 mesosphere**NT1 stratosphere**NT1 thermosphere**NT1 troposphere**NT2 tropopause**RT air**RT airglow**RT atmospheric circulation**RT atmospheric explosions**RT atmospheric precipitations**RT atmospheric pressure**RT earth planet**RT environment**RT fallout**RT geocorona**RT global aspects**RT greenhouse effect**RT meteorology**RT radioactive clouds**RT residence half-time**RT surface air**RT temperature inversions***EARTH BERMS***INIS: 2000-04-12; ETDE: 1979-09-26**Earth banks used to moderate temperature change.**UF berms**RT earth-covered buildings**RT landscaping**RT thermal insulation***EARTH CORE***1988-02-02**UF core (earth)**RT earth crust**RT earth mantle**RT earth planet***EARTH-COVERED BUILDINGS***INIS: 1997-06-17; ETDE: 1977-09-19**UF underground buildings**BT1 buildings**RT earth berms**RT fallout shelters**RT subsurface structures***EARTH CRUST***(Prior to March 1997 MOHOLE PROJECT was a valid ETDE descriptor.)**SF mohole project**NT1 continental crust**NT1 oceanic crust**RT earth core**RT earth mantle**RT earth planet**RT geology**RT geomorphology**RT geothermal energy**RT natural occurrence**RT particle resuspension**RT plate tectonics**RT sea bed**RT sea-floor spreading**RT soil mechanics**RT volcanoes***EARTH MAGNETOSPHERE***INIS: 1999-04-28; ETDE: 1979-10-03**UF magnetosphere (earth)**BT1 earth atmosphere**NT1 magnetotail**NT1 plasma sheet**NT1 plasmopause**NT1 plasmasphere**RT geomagnetic field**RT international magnetospheric study**RT loss cone**RT magnetic storms**RT magnetopause**RT magnetosheath**RT planetary magnetospheres**RT polar cusp**RT radiation belts***EARTH MANTLE***1985-12-10**Intermediate shell zone of the earth below the crust and above the core.**SF mohole project**RT earth core**RT earth crust**RT earth planet**RT overburden***EARTH PENETRATORS***INIS: 2000-04-12; ETDE: 1976-09-28**BT1 penetrators**NT1 subterrene penetrators**RT projectiles***EARTH PLANET***1999-04-28**SF world**BT1 planets**NT1 northern hemisphere**NT1 southern hemisphere**RT continental crust**RT earth atmosphere**RT earth core**RT earth crust**RT earth mantle**RT geography**RT geology**RT geophysics**RT oceanic crust**RT oceanography**RT topography***earthing***INIS: 2000-04-12; ETDE: 1984-02-10**USE electric grounds***earthing (electric grounds)***INIS: 1984-02-22; ETDE: 2002-06-13**USE electric grounds***EARTHMOVING EQUIPMENT***INIS: 1983-06-30; ETDE: 1977-03-04**UF excavators**\*BT1 materials handling equipment**NT1 bucket wheel excavators**NT1 draglines**RT boreholes**RT excavation**RT mining equipment**RT vehicles***earthquake foci***INIS: 2000-04-12; ETDE: 1979-04-11**Those points within the earth which are the center of earthquakes and the origins of their elastic waves.**(Prior to February 1997 this was a valid ETDE descriptor.)**USE earthquakes**USE origin***earthquake magnitude***INIS: 2000-04-12; ETDE: 1978-06-14**A measure of the strength of an earthquake or the strain energy released by it, as determined by seismographic observations.**(Prior to March 1996 this was a valid ETDE descriptor.)**USE earthquakes***EARTHQUAKES***(From June 1978 until March 1996**EARTHQUAKE MAGNITUDE was a valid ETDE descriptor.)**UF benioff zone**UF earthquake foci**UF earthquake magnitude**BT1 seismic events**NT1 microearthquakes**RT aftershocks**RT epicenters**RT exceptional natural disaster**RT foreshocks**RT geodetic surveys**RT geologic faults**RT ground motion**RT hypocenters**RT landslides**RT precursor**RT rayleigh waves**RT seismic effects**RT seismic isolation**RT seismic p waves**RT seismic s waves**RT seismic surface waves**RT seismic waves**RT seismicity**RT seismographs**RT seismology**RT shock waves**RT soil-structure interactions**RT tsunamis*

**earthworms**

INIS: 2000-04-12; ETDE: 1976-12-15  
USE annelids

**east china sea**

INIS: 1992-01-16; ETDE: 1981-03-16  
USE china sea

**east coast**

INIS: 2000-04-12; ETDE: 1979-12-10  
(Prior to December 1991 this was a valid ETDE descriptor.)  
USE us east coast

**east facility**

INIS: 2000-04-12; ETDE: 1981-08-21  
Primary systems test and evaluation facility at Savannah River Plant for DOE's residual energy applications program (REAP) for R and D on heat recovery and conversion equipment.  
(Prior to February 1995, this was a valid ETDE descriptor.)  
SEE savannah river plant

**EAST MESA GEOTHERMAL FIELD**

INIS: 1992-06-04; ETDE: 1977-03-04  
BT1 geothermal fields  
RT imperial valley

**east pakistan**

INIS: 2000-04-12; ETDE: 1976-05-17  
USE bangladesh

**east tokamak**

2006-07-25  
USE ht-7u tokamak

**EAST-WEST ASYMMETRY**

For global aspects only.  
BT1 asymmetry  
RT cosmic radiation  
RT geographical variations

**EASTERN EUROPE**

INIS: 1997-11-11; ETDE: 1993-01-27  
BT1 europe  
NT1 albania  
NT1 belarus  
NT1 bosnia and herzegovina  
NT1 bulgaria  
NT1 croatia  
NT1 czech republic  
NT1 estonia  
NT1 hungary  
NT1 latvia  
NT1 lithuania  
NT1 moldova  
NT1 montenegro  
NT1 poland  
NT1 romania  
NT1 russian federation  
NT2 dubna  
NT2 kamchatka  
NT2 kurile islands  
NT2 lovozero  
NT2 novaya zemlya  
NT2 siberia  
NT1 serbia  
NT1 slovakia  
NT1 slovenia  
NT1 the former yugoslav republic of macedonia  
NT1 ukraine  
NT2 crimea

**easton power reactor**

USE fitzpatrick reactor

**EBASCO STANDARD PLANT**

INIS: 1978-11-24; ETDE: 1978-08-07  
Ebasco Services reference PWR nuclear power plant.  
\*BT1 nuclear power plants

**ebd**

INIS: 2000-04-12; ETDE: 1980-02-13  
USE energy beam deposition

**ebd films**

INIS: 2000-04-12; ETDE: 1980-02-11  
Energy beam deposition films.  
(Prior to February 1997 ENERGY BEAM DEPOSITION FILMS was a valid ETDE descriptor.)  
USE energy beam deposition  
USE thin films

**ebfu**

INIS: 1981-02-27; ETDE: 1979-07-24  
USE electron beam fusion accelerator

**ebic**

INIS: 2000-04-12; ETDE: 1983-03-23  
USE scanning electron microscopy

**ebis**

INIS: 2000-04-12; ETDE: 1976-05-17  
USE electron beam ion sources

**EBONITE**

BT1 vulcanized elastomers

**EBOR REACTOR**

INEEL, Idaho Falls, Idaho, USA. Never operational.  
UF experimental beryllium oxide reactor  
\*BT1 beryllium moderated reactors  
\*BT1 enriched uranium reactors  
\*BT1 helium cooled reactors  
\*BT1 power reactors  
\*BT1 research reactors  
\*BT1 solid homogeneous reactors  
\*BT1 test reactors  
\*BT1 thermal reactors

**EBR-1 REACTOR**

ANL/INEEL, Idaho Falls, Idaho, USA.  
Decommissioned in 1964.  
UF experimental breeder reactor-1  
\*BT1 experimental reactors  
\*BT1 lmfr type reactors  
\*BT1 nak cooled reactors  
\*BT1 plutonium reactors  
\*BT1 potassium cooled reactors  
\*BT1 power reactors  
\*BT1 research reactors  
\*BT1 sodium cooled reactors  
\*BT1 test reactors  
RT natural uranium reactors

**EBR-2 REACTOR**

ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1994.  
UF experimental breeder reactor-2  
\*BT1 experimental reactors  
\*BT1 lmfr type reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors  
RT enriched uranium reactors  
RT plutonium reactors

**EBULLATED BED**

INIS: 2000-04-12; ETDE: 1978-02-14  
Gas-liquid-solid fluidization.  
RT fluidized beds  
RT packed beds

**EBWR REACTOR**

ANL, Argonne, Illinois, USA. Shut down in 1967.  
UF experimental boiling water reactor  
\*BT1 bwr type reactors  
\*BT1 experimental reactors

**ECAT SCANNING**

INIS: 1980-04-02; ETDE: 1979-05-09  
Emission Computer Axial Tomography scanning.  
UF emission computer axial tomography scanning  
\*BT1 emission computed tomography  
\*BT1 photon emission scanning  
RT image processing  
RT radioisotope scanning  
RT radiopharmaceuticals

**eccles-jordan circuits**

USE flip-flop circuits

**ECCS**

UF emergency core cooling system  
\*BT1 reactor protection systems  
NT1 core flooding systems  
NT1 core spray systems  
NT1 high pressure coolant injection  
NT1 low pressure coolant injection  
RT depressurization systems  
RT reactor safety experiments  
RT safety injection

**ECEL REACTOR**

Atomics International Div., Rockwell International, Canoga Park, California, USA.  
\*BT1 fast reactors  
\*BT1 zero power reactors

**echelle gratings**

INIS: 1984-01-18; ETDE: 2002-06-13  
USE diffraction gratings

**echelon gratings**

INIS: 1984-01-18; ETDE: 2002-06-13  
USE diffraction gratings

**ECHINODERMS**

\*BT1 benthos  
\*BT1 invertebrates  
NT1 sea urchins  
RT exoskeleton

**echography**

INIS: 1984-04-04; ETDE: 1984-05-10  
Method to detect inhomogenities in the human body by means of reflected ultrasonic waves.  
USE ultrasonography

**ECLIPSE**

UF lunar occultation  
UF occultation  
UF solar occultation  
RT astronomy

**ECN**

INIS: 1977-02-08; ETDE: 1977-04-13  
Energieonderzoek Centrum Nederland; prior to 1 August 1976 known as Reactor Centrum Nederland, and documents written before that date should be indexed to RCN.  
UF energieonderzoek centrum nederland  
\*BT1 netherlands organizations  
NT1 rcn

**ECO REACTOR**

UF experience critique orgel  
\*BT1 heavy water moderated reactors  
\*BT1 natural uranium reactors  
\*BT1 organic cooled reactors  
\*BT1 research reactors  
\*BT1 tank type reactors

\*BT1 test reactors

### ecobalance

2008-02-07

NOT for ECOLOGICAL BALANCE

USE life cycle assessment

### ECOLOGICAL BALANCE

2008-02-07

State of dynamic equilibrium within a community of organisms in which genetic, species and ecosystem diversity remain relatively stable.

RT ecological succession  
RT ecology  
RT ecosystems  
RT genetic variability  
RT population dynamics  
RT species diversity

### ecological communities

USE ecosystems

### ECOLOGICAL CONCENTRATION

INIS: 1976-07-16; ETDE: 1975-11-11

Concentration of a substance in organisms or the environment.

UF concentration processes (ecological)  
UF environmental concentration  
UF transfer factors (biological)  
SF concentration  
NT1 radioecological concentration  
RT carbon cycle  
RT concentration ratio  
RT environmental transport  
RT mineral cycling  
RT nitrogen cycle  
RT sulfur cycle

### ECOLOGICAL SUCCESSION

INIS: 1986-07-09; ETDE: 1981-07-06

Orderly and progressive change in animal and/or plant communities.

RT competition  
RT ecological balance  
RT ecology  
RT population dynamics  
RT species diversity

### ECOLOGY

NT1 baseline ecology  
NT1 radioecology  
RT animals  
RT biological adaptation  
RT biological extinction  
RT ecological balance  
RT ecological succession  
RT ecosystems  
RT home range  
RT predator-prey interactions  
RT regional analysis  
RT species diversity  
RT symbiosis

### ECONOMETRICS

The application of mathematical methods to the study of economic data and problems.

BT1 economics  
RT dynamic programming  
RT economic analysis  
RT economic elasticity  
RT linear programming  
RT nonlinear programming  
RT optimization

### ECONOMIC ANALYSIS

INIS: 1999-06-29; ETDE: 1978-04-06

BT1 economics  
NT1 cost benefit analysis  
NT1 input-output analysis  
RT capitalized cost

RT econometrics  
RT economy  
RT energy analysis  
RT operating cost  
RT per capita values  
RT regional analysis  
RT regression analysis

### ECONOMIC DEVELOPMENT

1997-06-19

UF economic growth  
UF growth (economic)  
RT centrally planned economies  
RT commercial sector  
RT commercialization  
RT developed countries  
RT economic policy  
RT economics  
RT gross domestic product  
RT gross national product  
RT industry  
RT inflation  
RT nuclear trade  
RT resource development  
RT standard of living  
RT sustainable development  
RT us economic recovery tax act

### ECONOMIC ELASTICITY

INIS: 2000-05-02; ETDE: 1975-11-11

UF elasticity (economic)  
RT econometrics  
RT economics  
RT energy expenses  
RT energy substitution  
RT prices

### economic growth

INIS: 1993-02-01; ETDE: 1977-10-20

(Prior to February 1992, this was a valid ETDE descriptor.)

USE economic development

### ECONOMIC IMPACT

INIS: 1991-10-11; ETDE: 1977-01-31

RT economics  
RT socio-economic factors  
RT technology impacts

### ECONOMIC POLICY

1999-06-29

BT1 government policies  
RT allocations  
RT centrally planned economies  
RT deregulation  
RT economic development  
RT economics  
RT forecasting  
RT foreign policy  
RT nationalization  
RT nuclear trade  
RT pricing regulations  
RT taxes

### economic recovery tax act

INIS: 2000-04-12; ETDE: 1982-02-08

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us economic recovery tax act

### ECONOMIC REGULATORY

#### ADMINISTRATION

INIS: 2000-04-12; ETDE: 1980-03-29

UF us era  
\*BT1 us doe

### ECONOMICS

SF values  
NT1 econometrics  
NT1 economic analysis  
NT2 cost benefit analysis

### NT2 input-output analysis

RT availability  
RT budgets  
RT capital  
RT competition  
RT cost  
RT depreciation  
RT deregulation  
RT economic development  
RT economic elasticity  
RT economic impact  
RT economic policy  
RT economy  
RT environmental policy  
RT expenditures  
RT feasibility studies  
RT financial data  
RT financial incentives  
RT financing  
RT foreign exchange rate  
RT gross national product  
RT income  
RT income distribution  
RT investment  
RT life-cycle cost  
RT low income groups  
RT market  
RT payback period  
RT profits  
RT property values  
RT regional analysis  
RT resellers  
RT retailers  
RT royalties  
RT sellback  
RT socio-economic factors  
RT spot market  
RT supply and demand  
RT tax credits  
RT taxes  
RT trade

### ECONOMIZERS

RT reactor cooling systems  
RT steam generators

### ECONOMY

The structure of economic life in a country or area.

RT business  
RT diversification  
RT economic analysis  
RT economics  
RT financing  
RT forecasting  
RT globalization  
RT gross national product  
RT input-output analysis  
RT lending institutions  
RT small businesses  
RT technology impacts

### ECOSYSTEMS

UF biocenoses  
UF biogeocenoses  
UF communities (ecological)  
UF ecological communities  
UF energy budgets  
NT1 aquatic ecosystems  
NT2 wetlands  
NT3 marshes  
NT3 swamps  
NT1 terrestrial ecosystems  
NT2 rangelands  
NT2 savannas  
NT2 swamps  
RT agriculture  
RT biology  
RT biosphere  
RT carbon cycle

RT ecological balance  
 RT ecology  
 RT environment  
 RT environmental exposure pathway  
 RT forest litter  
 RT mineral cycling  
 RT nature reserves  
 RT nitrogen cycle  
 RT pesticides  
 RT population dynamics  
 RT populations  
 RT predator-prey interactions  
 RT radioecological concentration  
 RT radionuclide migration  
 RT soils  
 RT species diversity  
 RT sulfur cycle

**ecpa**

INIS: 2000-04-12; ETDE: 1977-11-28

USE energy conservation and production act

**ecr**

USE electron cyclotron-resonance

**ECR CURRENT DRIVE**

INIS: 1999-07-26; ETDE: 1999-09-03

UF electron cyclotron-resonance current drive

BT1 non-inductive current drive

RT ecr heating

**ECR HEATING**

UF electron cyclotron-resonance heating

\*BT1 high-frequency heating

RT ecr current drive

RT electron cyclotron-resonance

**ECR ION SOURCES**

1995-07-03

Ion sources based on electron cyclotron-resonance absorption of rf power launched into a hot electron plasma.

UF ecris

UF electron cyclotron-resonance ion sources

BT1 ion sources

RT electron cyclotron-resonance

**ecris**

1995-07-03

USE ecr ion sources

**ECSC**

UF european coal and steel community

\*BT1 european union

**ECUADOR**

BT1 developing countries

\*BT1 south america

RT andes

RT opec

**ECZEMA**

\*BT1 skin diseases

RT allergy

**EDDHA**

UF n,n-ethylenedis(2-(o-hydroxyphenyl)glycine)

\*BT1 amino acids

BT1 chelating agents

\*BT1 hydroxy acids

**EDDINGTON THEORY**

RT spectra

**EDDY CURRENT TESTING**

\*BT1 electromagnetic testing

RT eddy currents

**EDDY CURRENTS**

Limited to electric currents.

\*BT1 electric currents

RT eddy current testing

**EDEMA**

BT1 pathological changes

BT1 symptoms

RT body fluids

RT diuretics

RT extracellular space

RT retention

**edf-1 reactor**

USE chinon-1 reactor

**edf-2 reactor**

USE chinon-2 reactor

**edf-3 reactor**

USE chinon-3 reactor

**edf-4 reactor**

USE saint laurent-1 reactor

**edf-5 reactor**

USE bugey-1 reactor

**EDGE DISLOCATIONS**

\*BT1 dislocations

**EDGE LOCALIZED MODES**

INIS: 1989-12-07; ETDE: 1990-01-03

UF elm (plasma physics)

\*BT1 plasma macroinstabilities

RT h-mode plasma confinement

**EDNA DEPOSIT**

INIS: 2000-04-12; ETDE: 1983-07-07

\*BT1 oil sand deposits

RT california

RT oil sands

**eds liquefaction**

INIS: 2000-04-12; ETDE: 1980-10-27

USE Exxon liquefaction process

**EDTA**

UF ethylenediaminetetraacetic acid

UF sequestrene

UF versene

\*BT1 amino acids

BT1 chelating agents

**EDUCATION**

UF teaching

NT1 training

NT2 computer-aided instruction

RT adolescents

RT children

RT educational facilities

RT educational tools

RT learning

RT manuals

RT safety culture

RT technology transfer

**EDUCATIONAL FACILITIES**

INIS: 1983-06-30; ETDE: 1979-05-31

UF colleges

UF facilities (educational)

UF museums

UF school facilities

UF school plant

UF schools

UF teaching facilities

UF training facilities

UF universities

NT1 school buildings

RT education

RT educational tools

RT exhibits

RT information centers

RT libraries

**EDUCATIONAL TOOLS**

INIS: 1992-02-05; ETDE: 1977-06-21

Activities or materials such as movies, slides, or computer media intended to assist in promoting learning or understanding.

UF curriculum guides

UF tools (educational)

RT education

RT educational facilities

RT exhibits

RT training

**edwin i. hatch-1 reactor**

USE hatch-1 reactor

**edwin i. hatch-2 reactor**

USE hatch-2 reactor

**EEL**

\*BT1 fishes

**ees**

INIS: 2000-04-12; ETDE: 1977-04-12

USE us energy extension service

**EEV RANGE**

INIS: 1977-01-26; ETDE: 1976-08-24

From 10 exp 18 to 10 exp 21 ev.

BT1 energy range

**EFD WIND GENERATORS**

INIS: 2000-04-12; ETDE: 1977-11-09

UF electrofluid dynamic wind generator

BT1 direct energy converters

\*BT1 wind power plants

**EFDR-50 REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-03

Entwickelter Fortschrittlicher Druckwasser

Reaktor for ship propulsion with 50000 SHP.

UF entwickelter fortschrittlicher druckwasser reaktor

\*BT1 pwr type reactors

\*BT1 ship propulsion reactors

**EFFECTIVE CHARGE**

Observed charge of nucleus or atom, less than Ze because of screening effects.

RT nuclear screening

**effective energy (internal irradiation)**

USE internal irradiation

USE spatial dose distributions

**effective half-life**

USE biological half-life

**EFFECTIVE MASS**

BT1 mass

**EFFECTIVE RANGE THEORY**

RT efimov effect

RT interactions

RT nucleons

RT scattering

**EFFICIENCY**

UF automobile efficiency standards

UF decontamination factor

UF dose reduction factor

UF dose relative factor

UF drf

NT1 energy efficiency

NT1 heat rate

NT1 mechanical efficiency

NT1 quantum efficiency

NT1 thermal efficiency

RT coefficient of performance

RT comparative evaluations

RT energy conservation



RT energy yield  
 RT feasibility studies  
 RT net energy  
 RT performance  
 RT productivity  
 RT spectral response  
 RT uses

**effluents (chemical)**

INIS: 1982-08-27; ETDE: 1975-12-16  
 USE chemical effluents

**effluents (gaseous)**

INIS: 1975-10-09; ETDE: 1975-12-16  
 USE gaseous wastes

**effluents (liquid)**

INIS: 1975-10-09; ETDE: 1975-12-16  
 USE liquid wastes

**effluents (radioactive)**

INIS: 1975-10-09; ETDE: 1975-12-16  
 USE radioactive effluents

**effluents (thermal)**

USE thermal effluents

**effusion**

INIS: 2000-04-12; ETDE: 1981-06-13  
 USE diffusion

**EFG METHOD**

INIS: 2000-04-12; ETDE: 1979-08-07  
*Edge-defined, film-fed growth method for crystal growth.*  
 BT1 crystal growth methods  
 RT cast method  
 RT crystal growth  
 RT inverted stepanov method

**EFIMOV EFFECT**

INIS: 1985-11-19; ETDE: 1985-12-13  
*The conjectured possibility of an anomalous behaviour of a resonant interacting three-body system near the three-body breakup threshold.*  
 RT bound state  
 RT effective range theory  
 RT three-body problem

**efr reactor**

INIS: 1977-03-01; ETDE: 1977-04-12  
 USE joyo reactor

**EGCR REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down.  
 UF experimental gas cooled reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 helium cooled reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**EGGS**

UF yolk  
 RT birds  
 RT food  
 RT hatching  
 RT ichthyoplankton  
 RT ova

**egr systems**

INIS: 2000-04-12; ETDE: 1976-01-07  
 USE exhaust recirculation systems

**EGTA**

INIS: 1977-09-15; ETDE: 1977-11-10  
*Ethylene glycol-bis(2-aminoethyl ether) tetraacetic acid.*  
 \*BT1 carboxylic acids

BT1 chelating agents  
 \*BT1 glycols

**EGYPTIAN ARAB REPUBLIC**

UF arab republic of egypt  
 UF uar  
 UF united arab republic  
 BT1 africa  
 BT1 arab countries  
 BT1 developing countries  
 BT1 middle east  
 RT nile river  
 RT oapec  
 RT red sea  
 RT suez canal

**EGYPTIAN ATOMIC ENERGY COMMISSION**

2006-10-13  
 \*BT1 egyptian organizations

**EGYPTIAN ORGANIZATIONS**

2004-03-31  
 BT1 national organizations  
 NT1 egyptian atomic energy commission

**egyptian testing research reactor-1**

2005-05-18  
 USE etrr-1 reactor

**egyptian testing research reactor-2**

2005-05-18  
 USE etrr-2 reactor

**eh (redox potential)**

INIS: 2000-04-12; ETDE: 1982-12-01  
 USE redox potential

**ehd channels**

INIS: 2000-04-12; ETDE: 1979-03-28  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 SEE ehd generators

**EHD GENERATORS**

UF electrohydrodynamic generators  
 SF ehd channels  
 SF electrohydrodynamic channels  
 BT1 direct energy converters  
 RT electrohydrodynamics

**ehf radiation**

USE microwave radiation

**EHRlich ASCITES TUMOR**

\*BT1 experimental neoplasms  
 RT ascites  
 RT ascites tumor cells

**EHV AC SYSTEMS**

INIS: 1993-01-18; ETDE: 1976-05-17  
 345-765 kV.  
 UF extrahigh voltage ac systems  
 UF extrahigh voltage alternating current systems  
 \*BT1 ac systems

**EHV DC SYSTEMS**

INIS: 1992-03-09; ETDE: 1976-05-17  
 345-765 kV.  
 UF extrahigh voltage dc systems  
 UF extrahigh voltage direct current systems  
 \*BT1 dc systems

**EICOSANOIC ACID**

UF arachidic acid  
 \*BT1 monocarboxylic acids

**EIGENFREQUENCY**

UF frequency (eigen)  
 RT eigenvalues  
 RT hydrodynamic mass effect

**EIGENFUNCTIONS**

BT1 functions  
 RT expectation value  
 RT quantum mechanics  
 RT sturm-liouville equation  
 RT wave functions

**EIGENSTATES**

UF coherent states  
 RT energy levels  
 RT quantum mechanics

**EIGENVALUES**

RT eigenfrequency  
 RT expectation value  
 RT mathematical operators  
 RT multiplicity  
 RT quantum mechanics  
 RT secular equation

**EIGENVECTORS**

RT mathematical operators  
 RT mathematics  
 RT vectors

**eightfold way**

USE octet model

**eiip**

INIS: 2000-04-12; ETDE: 1979-09-26  
*Energy Integrated Industrial Parks.*  
 USE energy parks

**EIKONAL APPROXIMATION**

\*BT1 approximations  
 RT scattering amplitudes  
 RT straight-line path approximation

**eindhoven argonaut reactor**

2000-04-12  
 USE athene reactor

**EINDHOVEN CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24  
*Eindhoven AVF cyclotron.*  
 \*BT1 isochronous cyclotrons

**EINSTEIN COEFFICIENTS**

RT energy-level transitions  
 RT oscillator strengths  
 RT stimulated emission

**einstein-de sitter model**

USE cosmological models

**EINSTEIN EFFECT**

INIS: 1975-10-23; ETDE: 1975-12-16  
*A shift towards longer wavelengths of spectral lines emitted by atoms in strong gravitational fields.*

UF einstein shift  
 RT general relativity theory  
 RT gravitation  
 RT gravitational fields  
 RT red shift  
 RT spectral shift

**EINSTEIN FIELD EQUATIONS**

\*BT1 field equations  
 RT cosmological constant  
 RT general relativity theory  
 RT gravitational fields  
 RT kerr field

**einstein gravitation theory**

USE general relativity theory

**EINSTEIN-MAXWELL EQUATIONS**

UF electrovac equations  
 \*BT1 field equations  
 RT electromagnetic fields  
 RT general relativity theory  
 RT gravitational fields

*RT* gravitational waves

## EINSTEIN-SCHROEDINGER THEORY

\*BT1 unified-field theories

### *einstein shift*

*INIS: 1975-10-23; ETDE: 1975-12-16*

USE einstein effect

## EINSTEINIUM

\*BT1 actinides

\*BT1 transplutonium elements

### EINSTEINIUM 240

*2007-10-22*

\*BT1 actinide nuclei

\*BT1 einsteinium isotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

### EINSTEINIUM 241

*2007-10-22*

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 einsteinium isotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

### EINSTEINIUM 242

*2007-10-22*

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 einsteinium isotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

### EINSTEINIUM 243

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 einsteinium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

### EINSTEINIUM 244

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 einsteinium isotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

### EINSTEINIUM 245

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 einsteinium isotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

### EINSTEINIUM 246

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 einsteinium isotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

### EINSTEINIUM 247

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 einsteinium isotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

### EINSTEINIUM 248

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 einsteinium isotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

### EINSTEINIUM 249

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 einsteinium isotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 odd-even nuclei

### EINSTEINIUM 250

\*BT1 actinide nuclei

\*BT1 einsteinium isotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 odd-odd nuclei

### EINSTEINIUM 251

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 einsteinium isotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

### EINSTEINIUM 252

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 einsteinium isotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 years living radioisotopes

### EINSTEINIUM 253

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 einsteinium isotopes

\*BT1 odd-even nuclei

\*BT1 spontaneous fission radioisotopes

### EINSTEINIUM 253 TARGET

*INIS: 1978-01-13; ETDE: 1977-08-24*

BT1 targets

### EINSTEINIUM 254

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 einsteinium isotopes

\*BT1 electron capture radioisotopes

\*BT1 internal conversion radioisotopes

\*BT1 odd-odd nuclei

\*BT1 spontaneous fission radioisotopes

### EINSTEINIUM 254 TARGET

*ETDE: 1976-07-09*

BT1 targets

### EINSTEINIUM 255

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 einsteinium isotopes

\*BT1 odd-even nuclei

\*BT1 spontaneous fission radioisotopes

### EINSTEINIUM 255 TARGET

*INIS: 1978-09-28; ETDE: 1978-07-05*

BT1 targets

### EINSTEINIUM 256

*INIS: 1977-01-25; ETDE: 1976-09-14*

\*BT1 actinide nuclei

\*BT1 beta-minus decay radioisotopes

\*BT1 einsteinium isotopes

\*BT1 hours living radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

## EINSTEINIUM 257

*2007-10-22*

\*BT1 actinide nuclei

\*BT1 beta-minus decay radioisotopes

\*BT1 einsteinium isotopes

\*BT1 odd-even nuclei

\*BT1 spontaneous fission radioisotopes

## EINSTEINIUM 258

*2007-10-22*

\*BT1 actinide nuclei

\*BT1 einsteinium isotopes

\*BT1 odd-odd nuclei

### *einsteinium additions*

*2000-04-12*

(Prior to August 1993 this was a valid ETDE descriptor.)

USE alloys

## EINSTEINIUM ALLOYS

*2000-04-12*

\*BT1 actinide alloys

## EINSTEINIUM BROMIDES

*1976-01-27*

\*BT1 bromides

\*BT1 einsteinium compounds

## EINSTEINIUM CHLORIDES

\*BT1 chlorides

\*BT1 einsteinium compounds

## EINSTEINIUM COMPLEXES

\*BT1 actinide complexes

\*BT1 transuranium complexes

## EINSTEINIUM COMPOUNDS

*1996-11-13*

BT1 actinide compounds

\*BT1 transplutonium compounds

NT1 einsteinium bromides

NT1 einsteinium chlorides

NT1 einsteinium halides

NT2 einsteinium fluorides

NT2 einsteinium iodides

NT1 einsteinium nitrates

NT1 einsteinium oxides

## EINSTEINIUM FLUORIDES

*INIS: 1997-01-28; ETDE: 1981-01-09*

(From October 1996 to February 2008

EINSTEINIUM COMPOUNDS + FLUORIDES was used for this concept.)

\*BT1 einsteinium halides

\*BT1 fluorides

## EINSTEINIUM HALIDES

*2008-02-07*

\*BT1 einsteinium compounds

\*BT1 halides

NT1 einsteinium fluorides

NT1 einsteinium iodides

## EINSTEINIUM IODIDES

*1997-01-28*

(From October 1996 to February 2008

EINSTEINIUM COMPOUNDS + IODIDES was used for this concept.)

\*BT1 einsteinium halides

\*BT1 iodides

## EINSTEINIUM IONS

\*BT1 ions

## EINSTEINIUM ISOTOPES

*1999-07-16*

BT1 isotopes

NT1 einsteinium 240

NT1 einsteinium 241

NT1 einsteinium 242

NT1 einsteinium 243

NT1 einsteinium 244

NT1 einsteinium 245  
 NT1 einsteinium 246  
 NT1 einsteinium 247  
 NT1 einsteinium 248  
 NT1 einsteinium 249  
 NT1 einsteinium 250  
 NT1 einsteinium 251  
 NT1 einsteinium 252  
 NT1 einsteinium 253  
 NT1 einsteinium 254  
 NT1 einsteinium 255  
 NT1 einsteinium 256  
 NT1 einsteinium 257  
 NT1 einsteinium 258

**EINSTEINIUM NITRATES**

\*BT1 einsteinium compounds  
 \*BT1 nitrates

**EINSTEINIUM OXIDES**

\*BT1 einsteinium compounds  
 \*BT1 oxides

**eka-astatine**

INIS: 2000-04-12; ETDE: 1978-04-06  
 USE element 117

**eka-bismuth**

INIS: 2000-04-12; ETDE: 1978-04-06  
 USE element 115

**eka-gold**

INIS: 2000-04-12; ETDE: 1978-04-06  
 USE roentgenium

**eka-hafnium**

INIS: 2000-04-12; ETDE: 1978-04-06  
 USE rutherfordium

**eka-iridium**

INIS: 2000-04-12; ETDE: 1978-04-06  
 USE meitnerium

**eka-lead**

INIS: 2000-04-12; ETDE: 1978-04-06  
 USE element 114

**eka-mercury**

INIS: 2000-04-12; ETDE: 1978-04-06  
 USE element 112

**eka-osmium**

INIS: 2000-04-12; ETDE: 1978-04-06  
 USE hassium

**eka-platinum**

INIS: 2000-04-12; ETDE: 1978-04-06  
 USE darmstadtium

**eka-polonium**

INIS: 2000-04-12; ETDE: 1978-04-06  
 USE element 116

**eka-radon**

INIS: 2000-04-12; ETDE: 1978-04-06  
 USE element 118

**eka-rhenium**

INIS: 2000-04-12; ETDE: 1978-04-06  
 USE bohrium

**eka-tantalum**

INIS: 2000-04-12; ETDE: 1978-04-06  
 USE dubnium

**eka-thallium**

INIS: 2000-04-12; ETDE: 1978-04-06  
 USE element 113

**eka-tungsten**

INIS: 2000-04-12; ETDE: 1978-04-06  
 USE seaborgium

**EKANITE**

2000-04-12

\*BT1 silicate minerals  
 \*BT1 thorium minerals  
 \*BT1 uranium minerals  
 RT thorium silicates  
 RT uranium silicates

**eku**

USE erevan synchrotron

**EL-1 REACTOR**

UF *zoe reactor*  
 \*BT1 experimental reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**EL-2 REACTOR**

\*BT1 carbon dioxide cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**EL-3 REACTOR**

*Saclay, France.*

\*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors

**EL-4 REACTOR**

*Brennilis, Monts Arrel, France.*

\*BT1 carbon dioxide cooled reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 hwgcr type reactors  
 \*BT1 pressure tube reactors  
 \*BT1 thermal reactors

**el nino**

INIS: 1992-06-12; ETDE: 1991-06-21  
 USE southern oscillation

**EL SALVADOR**

\*BT1 central america  
 BT1 developing countries  
 RT ahuachapan geothermal field

**EL TATIO GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields  
 RT chile

**elastic properties**

USE elasticity

**ELASTIC SCATTERING**

BT1 scattering  
 NT1 bhabha scattering  
 NT1 compton effect  
 NT1 coulomb scattering  
 NT1 moeller scattering  
 NT1 mott scattering  
 NT1 potential scattering  
 NT1 rutherford scattering  
 NT1 wigner scattering  
 RT blair model  
 RT coherent scattering  
 RT diffuse scattering  
 RT quasi-elastic scattering  
 RT ramsauer effect  
 RT rosenbluth formula

RT skyrme potential  
 RT zero-range approximation

**ELASTICITY**

UF *elastic properties*  
 BT1 mechanical properties  
 NT1 photoelasticity  
 NT1 thermoelasticity  
 RT deformation  
 RT hooke law  
 RT poisson ratio  
 RT shape memory effect  
 RT strains  
 RT young modulus

**elasticity (economic)**

INIS: 2000-05-02; ETDE: 1980-08-25  
 USE economic elasticity

**ELASTOMERS**

1996-01-24

BT1 polymers  
 NT1 ethylene propylene diene polymers  
 NT1 neoprene  
 NT1 polyisoprene  
 NT1 rubbers  
 NT2 buna  
 NT2 latex  
 NT2 natural rubber  
 NT2 silastic  
 NT2 viton  
 RT vulcanized elastomers

**ELDERLY PEOPLE**

INIS: 1985-07-18; ETDE: 1978-02-14

UF *aged*  
 \*BT1 aged adults  
 \*BT1 man  
 \*BT1 minority groups  
 RT handicapped people  
 RT life cycle  
 RT sociology

**ELDOR**

UF *electron-electron double resonance*  
 \*BT1 magnetic resonance  
 RT double resonance methods

**ELECTRETS**

\*BT1 dielectric materials  
 RT polarization

**ELECTRIC APPLIANCES**

INIS: 1993-01-22; ETDE: 1977-06-21

UF *stoves (electric)*  
 SF *food disposers*  
 \*BT1 appliances  
 \*BT1 electrical equipment  
 NT1 microwave ovens  
 RT air conditioners  
 RT clothes dryers  
 RT clothes washers  
 RT dehumidifiers  
 RT dishwashers  
 RT freezers  
 RT humidifiers  
 RT ovens  
 RT refrigerators

**ELECTRIC ARCS**

\*BT1 electric currents  
 BT1 electric discharges  
 RT electrical faults  
 RT flashover  
 RT plasma

**ELECTRIC BATTERIES**

*Devices for production and/or storage of electrical energy from chemical reactions; excludes FUEL CELLS and RADIOISOTOPE BATTERIES.*

UF *accumulators (electric batteries)*

*UF* batteries (electric)  
*UF* secondary batteries  
*UF* storage batteries  
*UF* voltaic cells  
 BT1 electrochemical cells  
 \*BT1 energy storage systems  
 NT1 lead-acid batteries  
 NT1 metal-gas batteries  
   NT2 aluminium-air batteries  
   NT2 cadmium-air batteries  
   NT2 iron-air batteries  
   NT2 lithium-chlorine batteries  
   NT2 lithium-water-air batteries  
   NT2 nickel-hydrogen batteries  
   NT2 silver-hydrogen batteries  
   NT2 zinc-air batteries  
   NT2 zinc-chlorine batteries  
 NT1 metal-metal batteries  
 NT1 metal-metal oxide batteries  
   NT2 iron-nickel batteries  
   NT2 nickel-cadmium batteries  
   NT2 nickel-zinc batteries  
   NT2 silver-cadmium batteries  
   NT2 silver-zinc batteries  
   NT2 zinc-manganese batteries  
 NT1 metal-nonmetal batteries  
   NT2 lithium-copper chloride batteries  
   NT2 lithium-sulfur batteries  
   NT2 sodium-sulfur batteries  
   NT2 zinc-bromine batteries  
 NT1 primary-secondary hybrid batteries  
 NT1 redox flow batteries  
 NT1 thermal batteries  
*RT* battery charge state  
*RT* battery paste  
*RT* battery separators  
*RT* cardiac pacemakers  
*RT* electric-powered vehicles  
*RT* electrical equipment  
*RT* electrolytic cells  
*RT* electromotive force  
*RT* energy storage  
*RT* hybrid electric-powered vehicles  
*RT* off-peak energy storage  
*RT* primary batteries  
*RT* solid electrolytes

**ELECTRIC BORN MODEL**

\*BT1 ope model  
*RT* electroproduction  
*RT* photoproduction

**ELECTRIC BRIDGES**

*UF* bridges (electric)  
 \*BT1 electrical equipment  
*RT* electric measuring instruments

**ELECTRIC CABLES**

1997-06-17

*UF* cables (electric)  
 BT1 cables  
 \*BT1 conductor devices  
 NT1 coaxial cables  
 NT1 cryogenic cables  
 NT1 gas-insulated cables  
 NT1 oil-filled cables  
 NT1 superconducting cables  
*RT* power transmission lines

**ELECTRIC CHARGES**

1996-07-08

(Prior to August 1996 POSITIVE EXCESS was a valid ETDE descriptor.)

*UF* electric monopoles  
*UF* pyroelectricity  
*SF* positive excess  
 NT1 point charge  
*RT* battery charge state  
*RT* c invariance  
*RT* capacitance

*RT* charge carriers  
*RT* charge conservation  
*RT* charge density  
*RT* charge distribution  
*RT* charge states  
*RT* charge transport  
*RT* electrostatic charge eliminators  
*RT* electrostatics  
*RT* minus-plus ratio  
*RT* polar compounds  
*RT* pyroelectric effect  
*RT* space charge

**ELECTRIC COILS**

*UF* coils (electric)  
 \*BT1 electrical equipment  
 NT1 magnet coils  
   NT2 pulsed magnet coils  
 NT1 rogowski coil  
 NT1 solenoids  
 NT1 superconducting coils  
*RT* electromagnets  
*RT* magnetic circuits  
*RT* transformers  
*RT* winding machines

**electric condensers**

USE capacitors

**ELECTRIC CONDUCTIVITY**

*UF* conductivity (electric)  
*UF* current-voltage curves  
*UF* electric resistivity  
*UF* electrical conductivity  
*UF* electrical resistance  
*UF* electrical resistivity  
*UF* i-v characteristic  
*UF* ohmic resistance  
*UF* resistivity (electric)  
*UF* va characteristic  
*UF* volt-ampere characteristic

\*BT1 electrical properties  
 NT1 ionic conductivity  
   NT2 proton conductivity  
 NT1 magnetoresistance  
 NT1 photoconductivity  
 NT1 superconductivity  
*RT* carrier mobility  
*RT* electric conductors  
*RT* electric impedance  
*RT* electrical testing  
*RT* electrophysiology  
*RT* grueneisen formula  
*RT* inductance  
*RT* matthiessen rule  
*RT* ohm law  
*RT* umklapp processes  
*RT* wiedemann-franz law

**ELECTRIC CONDUCTORS**

*UF* conductors (electric)  
*RT* conductor devices  
*RT* electric conductivity  
*RT* electron mobility  
*RT* hall effect  
*RT* photoconductors  
*RT* semiconductor materials  
*RT* skin effect  
*RT* superconductors

**electric contactors**

USE switches

**ELECTRIC CONTACTS**

*UF* contacts (electric)  
*UF* point contacts  
*SF* junctions  
 \*BT1 electrical equipment  
*RT* switches

**ELECTRIC CONTROLLERS**

\*BT1 control equipment  
*RT* surges  
*RT* voltage regulators

**electric cooperatives**

INIS: 2000-04-12; ETDE: 1993-07-09

USE cooperatives  
 USE electric utilities

**ELECTRIC CURRENTS**

*UF* currents (electric)  
*UF* foucault current  
*UF* plasma currents  
 BT1 currents  
 NT1 alternating current  
 NT1 bootstrap current  
 NT1 critical current  
 NT1 direct current  
 NT1 eddy currents  
 NT1 electric arcs  
 NT1 electrojets  
 NT1 faraday current  
 NT1 leakage current  
 NT1 overcurrent  
 NT1 photocurrents  
 NT1 ring currents  
 NT1 threshold current  
*RT* current density  
*RT* current limiters  
*RT* electricity  
*RT* electrocarbonization  
*RT* electrocardiograms  
*RT* excitation systems  
*RT* flashover  
*RT* kruskal limit  
*RT* non-inductive current drive  
*RT* reversed-field pinch devices  
*RT* skin effect  
*RT* surges

**ELECTRIC DIPOLE MOMENTS**

BT1 dipole moments  
 BT1 electric moments  
*RT* nuclear electric moments  
*RT* polarizability

**electric dipole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28

USE e1-transitions

**ELECTRIC DIPOLES**

\*BT1 dipoles  
*RT* electric fields

**electric discharge pumping**

INIS: 1982-07-22; ETDE: 1977-05-07

USE electrical pumping

**ELECTRIC DISCHARGES**

1996-04-16

*UF* discharges (electric)  
 NT1 corona discharges  
 NT1 electric arcs  
 NT1 electric sparks  
 NT1 flashover  
 NT1 glow discharges  
 NT1 high-frequency discharges  
 NT1 lightning  
   NT2 ball lightning  
 NT1 penning discharges  
 NT1 townsend discharge  
*RT* afterglow  
*RT* breakdown  
*RT* discharge quenching  
*RT* paschen law  
*RT* positive column  
*RT* saha equation  
*RT* spark gaps  
*RT* striations  
*RT* switches

**ELECTRIC FIELDS**

- UF* fields (electric)  
**NT1** coulomb field  
*RT* casimir effect  
*RT* crossed fields  
*RT* electric dipoles  
*RT* electromagnetic fields  
*RT* excitation systems  
*RT* inhomogeneous fields  
*RT* nuclear quadrupole resonance  
*RT* parametric instabilities  
*RT* stark effect

**ELECTRIC FILTERS**

- UF* filters (electric)  
**BT1** filters

**ELECTRIC FURNACES**

- BT1** furnaces  
**NT1** arc furnaces  
**NT1** ceramic melters  
**NT1** induction furnaces

**ELECTRIC FUSES**

- UF* current limiting fuses  
*UF* fuses (electric)  
**\*BT1** conductor devices  
**BT1** equipment protection devices  
*RT* circuit breakers  
*RT* switches

**ELECTRIC GENERATORS**

*Excludes the concept DIRECT ENERGY CONVERTERS.*

- UF* generators (electric)  
*UF* wind generators  
**\*BT1** electrical equipment  
**NT1** alternators  
**NT1** flux pumps  
**NT1** homopolar generators  
**NT1** induction generators  
**NT1** rotating generators  
**NT2** superconducting generators  
**NT1** turbogenerators  
**NT1** water current power generators  
*RT* armatures  
*RT* excitation systems

**ELECTRIC GROUNDS**

1982-06-09

- UF* earth (electric grounds)  
*UF* earthing  
*UF* earthing (electric grounds)  
*UF* grounds  
*UF* grounds (electric)  
*RT* electrical faults  
*RT* electronic circuits

**ELECTRIC HEATING**

*INIS: 1999-01-22; ETDE: 1977-04-12*

(From April 1977 till March 1997 RESISTANCE HEATING was a valid ETDE descriptor.)

- UF* resistance heating  
**BT1** heating  
**NT1** joule heating  
**NT2** current-drive heating  
**NT1** radiant cable heating  
*RT* baseboard heating  
*RT* heat pumps  
*RT* space heating

**electric hexadecapole transitions**

*INIS: 1978-02-23; ETDE: 1978-04-28*  
 USE e4-transitions

**ELECTRIC IMPEDANCE**

*INIS: 1975-11-07; ETDE: 1975-12-16*

- BT1** impedance  
*RT* capacitance  
*RT* electric conductivity

**ELECTRIC LOGGING**

*INIS: 2000-06-27; ETDE: 1977-01-10*

- BT1** well logging  
**NT1** induced polarization logging  
**NT1** induction logging  
**NT1** resistivity logging  
**NT1** sp logging  
*RT* electrical surveys

**ELECTRIC MEASURING INSTRUMENTS**

- \*BT1** electrical equipment  
**BT1** measuring instruments  
**NT1** ammeters  
**NT1** electrometers  
**NT1** electroscopes  
**NT1** galvanometers  
**NT1** potentiometers  
**NT1** power meters  
**NT1** voltmeters  
*RT* electric bridges  
*RT* electronic equipment  
*RT* faraday cups

**ELECTRIC MOMENTS**

1996-07-18

(Prior to March 1997 GYROELECTRIC RATIO was a valid ETDE descriptor.)

- SF* gyroelectric ratio  
**NT1** electric dipole moments  
**NT1** nuclear electric moments  
*RT* quadrupole moments

**electric monopole transitions**

*INIS: 1978-02-23; ETDE: 1978-04-28*  
 USE e0-transitions

**electric monopoles**

USE electric charges

**ELECTRIC MOTORS**

- SF* stepper motors  
**\*BT1** electrical equipment  
**\*BT1** motors  
**NT1** superconducting motors  
*RT* armatures

**electric octupole transitions**

*INIS: 1978-02-23; ETDE: 1978-04-28*  
 USE e3-transitions

**ELECTRIC POTENTIAL**

- UF* open-circuit voltage  
*UF* potential (electric)  
*UF* voltage  
**NT1** plasma potential  
*RT* breakdown  
*RT* electrical transients  
*RT* electromotive force  
*RT* electrophysiology  
*RT* ionization potential  
*RT* overvoltage  
*RT* paschen law  
*RT* pyroelectric effect  
*RT* surges  
*RT* voltage drop

**ELECTRIC POWER**

1996-07-16

- BT1** power  
**NT1** hydroelectric power  
**NT1** off-peak power  
**NT1** surplus power  
*RT* alaska power administration  
*RT* bonneville power administration  
*RT* combined cycles  
*RT* demand factors  
*RT* dispersed storage and generation  
*RT* electric power industry  
*RT* electric utilities  
*RT* electricity

- RT* epri  
*RT* load management  
*RT* marginal-cost pricing  
*RT* master metering  
*RT* nuclear power  
*RT* on-site power generation  
*RT* peak-load pricing  
*RT* power demand  
*RT* power generation  
*RT* power losses  
*RT* power meters  
*RT* power plants  
*RT* power potential  
*RT* power supplies  
*RT* power transmission  
*RT* power transmission lines  
*RT* public utilities  
*RT* southeastern power administration  
*RT* southwestern power administration  
*RT* spacecraft power supplies  
*RT* time-of-use pricing  
*RT* var control systems  
*RT* western area power administration

**ELECTRIC POWER INDUSTRY**

*INIS: 1999-06-30; ETDE: 1978-02-14*

*Only for general papers when descriptors such as ELECTRICPOWER, ELECTRIC UTILITIES, or POWER SYSTEMS will not suffice.*

- BT1** industry  
*RT* electric power  
*RT* electric reliability councils  
*RT* electric utilities  
*RT* epri  
*RT* nuclear power  
*RT* power systems

**electric power research institute**

*INIS: 1993-11-05; ETDE: 1977-01-10*  
 USE epri

**electric power substations**

*INIS: 1992-10-06; ETDE: 1976-07-07*  
 USE power substations

**electric power systems**

*INIS: 1982-12-07; ETDE: 1976-02-23*  
 USE power systems

**ELECTRIC-POWERED VEHICLES**

1992-04-09

- UF* trolleybuses  
**BT1** vehicles  
**NT1** hybrid electric-powered vehicles  
**NT1** roadway-powered electric vehicles  
*RT* aaps  
*RT* electric batteries  
*RT* electric railways  
*RT* fuel cells  
*RT* regenerative braking

**ELECTRIC PROBES**

- BT1** probes  
**NT1** langmuir probe  
**NT1** plasma eaters

**electric properties**

*INIS: 1975-09-26; ETDE: 2002-06-13*  
 USE electrical properties

**electric pulses**

USE pulses

**electric quadrupole transitions**

*INIS: 1978-02-23; ETDE: 1978-04-28*  
 USE e2-transitions

**ELECTRIC RAILWAYS**

*INIS: 2000-04-12; ETDE: 1977-01-10*

- BT1** railways  
*RT* electric-powered vehicles

RT rapid transit systems  
RT trains

### ELECTRIC RELIABILITY COUNCILS

INIS: 2000-04-12; ETDE: 1979-09-27  
UF national electric reliability councils  
UF regional electric reliability councils  
RT electric power industry  
RT electric utilities

### electric resistivity

USE electric conductivity

### ELECTRIC RESONANCE

BT1 resonance  
NT1 paraelectric resonance

### ELECTRIC SHOCK

INIS: 1999-03-30; ETDE: 1979-07-24  
(Until March 1999 this concept was indexed by BIOLOGICAL SHOCK and ELECTRICITY.)  
UF shock (electric)  
RT biological shock

### ELECTRIC SPARKS

UF sparks (electric)  
BT1 electric discharges  
RT breakdown  
RT electrostatics  
RT flashover  
RT spark drills  
RT spark gaps

### electric switches

USE switches

### ELECTRIC UTILITIES

INIS: 1979-02-21; ETDE: 1978-02-15  
*Enterprises engaged in the generation, transmission, and distribution of electric power; may be investor-owned, cooperatively owned, or government-owned.*  
UF electric cooperatives  
SF utilities  
BT1 public utilities  
RT cooperatives  
RT dispersed storage and generation  
RT electric power  
RT electric power industry  
RT electric reliability councils  
RT load analysis  
RT master metering  
RT peak load  
RT power pooling  
RT surplus power  
RT us power plant and industrial fuel use act

### electrical breakdown

INIS: 2000-04-12; ETDE: 1977-01-10  
USE electrical faults

### electrical conductivity

USE electric conductivity

### ELECTRICAL ENGINEERING

INIS: 1992-01-22; ETDE: 1978-06-14  
BT1 engineering

### ELECTRICAL EQUIPMENT

BT1 equipment  
NT1 antennas  
NT2 radio telescopes  
NT2 rectennas  
NT1 armatures  
NT1 battery chargers  
NT2 solar battery chargers  
NT1 capacitors  
NT1 circuit breakers  
NT1 conductor devices

NT2 connectors  
NT2 electric cables  
NT3 coaxial cables  
NT3 cryogenic cables  
NT3 gas-insulated cables  
NT3 oil-filled cables  
NT3 superconducting cables  
NT2 electric fuses  
NT1 current limiters  
NT1 dc to dc converters  
NT1 electric appliances  
NT2 microwave ovens  
NT1 electric bridges  
NT1 electric coils  
NT2 magnet coils  
NT3 pulsed magnet coils  
NT2 rogowski coil  
NT2 solenoids  
NT2 superconducting coils  
NT1 electric contacts  
NT1 electric generators  
NT2 alternators  
NT2 flux pumps  
NT2 homopolar generators  
NT2 induction generators  
NT2 rotating generators  
NT3 superconducting generators  
NT2 turbogenerators  
NT2 water current power generators  
NT1 electric measuring instruments  
NT2 ammeters  
NT2 electrometers  
NT2 electroscopes  
NT2 galvanometers  
NT2 potentiometers  
NT2 power meters  
NT2 voltmeters  
NT1 electric motors  
NT2 superconducting motors  
NT1 electrical insulators  
NT1 electromagnets  
NT2 superconducting magnets  
NT1 inverters  
NT1 lightning arresters  
NT1 potheads  
NT1 rectifiers  
NT2 rectifier tubes  
NT3 ignitrons  
NT2 semiconductor rectifiers  
NT1 relays  
NT1 resistors  
NT2 photoresistors  
NT2 semiconductor resistors  
NT1 shunt reactors  
NT1 switches  
NT2 cryotrons  
NT2 plasma switches  
NT2 semiconductor switches  
NT1 transformers  
NT2 gas-insulated transformers  
RT electric batteries  
RT electron tubes  
RT electronic circuits  
RT electronic equipment  
RT excitation systems  
RT lighting systems  
RT miniaturization  
RT potting  
RT potting materials  
RT power supplies  
RT radar  
RT reactor components  
RT semiconductor devices  
RT sonar  
RT standby mode  
RT transducers  
RT waveguides

### ELECTRICAL FAULTS

INIS: 1983-10-14; ETDE: 1977-01-10  
UF electrical breakdown  
UF short circuits  
UF shorts (electrical)  
RT breakdown  
RT electric arcs  
RT electric grounds  
RT failures  
RT flashover

### ELECTRICAL INSULATION

1982-11-29  
(Prior to January 1983 this concept was indexed by DIELECTRIC MATERIALS.)  
UF insulation (electrical, by dielectric materials)  
UF insulation (electrical)  
RT dielectric materials  
RT electrical insulators  
RT organic insulators

### ELECTRICAL INSULATORS

INIS: 1976-05-07; ETDE: 1976-02-23  
UF insulators (electrical)  
\*BT1 electrical equipment  
RT dielectric materials  
RT electrical insulation  
RT insulating oils  
RT organic insulators

### ELECTRICAL PROPERTIES

UF electric properties  
UF magnetoelectricity  
BT1 physical properties  
NT1 capacitance  
NT1 dielectric properties  
NT2 kerr effect  
NT2 permittivity  
NT1 electric conductivity  
NT2 ionic conductivity  
NT3 proton conductivity  
NT2 magnetoresistance  
NT2 photoconductivity  
NT2 superconductivity  
NT1 inductance  
NT1 polarizability  
NT1 thermoelectric properties  
RT electric  
RT electro-optical effects  
RT magnetic properties

### ELECTRICAL PUMPING

INIS: 1995-04-10; ETDE: 1977-05-07  
*Pumping achieved by allowing a suitable electric current to pass through the lasing medium.*  
UF electric discharge pumping  
UF pumping (electrical)  
BT1 pumping  
NT1 electron beam pumping  
RT lasers  
RT nuclear pumping  
RT optical pumping  
RT stimulated emission

### electrical resistance

USE electric conductivity

### electrical resistivity

USE electric conductivity

### ELECTRICAL SURVEYS

*Surveys or mapping of a portion of the earth's interior by use of one of the electrical methods.*  
\*BT1 geophysical surveys  
NT1 electromagnetic surveys  
NT2 magnetotelluric surveys  
NT1 resistivity surveys  
NT1 self-potential surveys

- NT1** telluric surveys  
*RT* electric logging  
*RT* exploration  
*RT* geothermal exploration  
*RT* induced polarization logging  
*RT* resistivity logging

**ELECTRICAL TESTING**

- \***BT1** nondestructive testing  
*RT* electric conductivity

**ELECTRICAL TRANSIENTS**

*INIS: 1983-06-02; ETDE: 1979-07-24*  
*Temporary oscillations that occur in circuits because of sudden changes of voltage, load or frequency.*

- BT1** transients  
**BT1** voltage drop  
*RT* electric potential  
*RT* overvoltage  
*RT* power systems  
*RT* surges  
*RT* var control systems

**ELECTRICITE DE FRANCE**

*INIS: 1995-02-15; ETDE: 1983-03-24*  
 \***BT1** french organizations

**ELECTRICITY**

*Only for the physical phenomenon sense; for utility purposes, use ELECTRIC POWER.*

- NT1** bioelectricity  
**NT1** piezoelectricity  
**NT1** thermoelectricity  
*RT* electric currents  
*RT* electric power  
*RT* electrical properties

**electricity supply company reactor**

*1993-11-05*  
 USE escom reactor

**ELECTRO-OPTICAL EFFECTS**

*INIS: 1978-11-24; ETDE: 1976-08-04*  
**NT1** electrochromism  
*RT* electrical properties  
*RT* magneto-optical effects  
*RT* optical properties

**ELECTROCARBONIZATION**

*2000-04-12*  
 \***BT1** carbonization  
*RT* electric currents

**ELECTROCARDIOGRAMS**

- \***BT1** diagrams  
*RT* cardiography  
*RT* diagnostic techniques  
*RT* electric currents  
*RT* heart  
*RT* pulses  
*RT* recording systems

**ELECTROCATALYSTS**

*INIS: 1992-02-26; ETDE: 1978-10-30*  
*UF* fuel cell catalysts  
**BT1** catalysts  
*RT* catalysis  
*RT* catalytic effects

**ELECTROCHEMICAL CELLS**

*1992-02-22*  
*SF* electrochemical engines  
**NT1** electric batteries  
**NT2** lead-acid batteries  
**NT2** metal-gas batteries  
**NT3** aluminium-air batteries  
**NT3** cadmium-air batteries  
**NT3** iron-air batteries  
**NT3** lithium-chlorine batteries  
**NT3** lithium-water-air batteries  
**NT3** nickel-hydrogen batteries

- NT3** silver-hydrogen batteries  
**NT3** zinc-air batteries  
**NT3** zinc-chlorine batteries  
**NT2** metal-metal batteries  
**NT2** metal-metal oxide batteries  
**NT3** iron-nickel batteries  
**NT3** nickel-cadmium batteries  
**NT3** nickel-zinc batteries  
**NT3** silver-cadmium batteries  
**NT3** silver-zinc batteries  
**NT3** zinc-manganese batteries  
**NT2** metal-nonmetal batteries  
**NT3** lithium-copper chloride batteries  
**NT3** lithium-sulfur batteries  
**NT3** sodium-sulfur batteries  
**NT3** zinc-bromine batteries  
**NT2** primary-secondary hybrid batteries  
**NT2** redox flow batteries  
**NT2** thermal batteries  
**NT1** fuel cells  
**NT2** acid electrolyte fuel cells  
**NT2** alcohol fuel cells  
**NT3** direct ethanol fuel cells  
**NT3** direct methanol fuel cells  
**NT2** alkaline electrolyte fuel cells  
**NT2** ammonia fuel cells  
**NT2** biochemical fuel cells  
**NT2** coal fuel cells  
**NT2** formaldehyde fuel cells  
**NT2** formate fuel cells  
**NT2** formic acid fuel cells  
**NT2** high-temperature fuel cells  
**NT3** molten carbonate fuel cells  
**NT3** solid oxide fuel cells  
**NT2** hydrazine fuel cells  
**NT2** hydrocarbon fuel cells  
**NT2** hydrogen fuel cells  
**NT2** natural gas fuel cells  
**NT2** regenerative fuel cells  
**NT3** redox fuel cells  
**NT2** solid electrolyte fuel cells  
**NT3** proton exchange membrane fuel cells  
**NT3** solid oxide fuel cells  
**NT1** photoelectrochemical cells  
**NT2** photogalvanic cells  
*RT* electrochemical energy conversion  
*RT* electrochemistry  
*RT* primary batteries

**ELECTROCHEMICAL COATING**

- \***BT1** chemical coating  
**NT1** anodization

**ELECTROCHEMICAL CORROSION**

- UF* bimetallic corrosion  
*UF* couple corrosion  
*UF* electrolytic corrosion  
*UF* galvanic corrosion  
 \***BT1** corrosion  
*RT* cathodic protection  
*RT* electrochemistry  
*RT* electrolysis

**ELECTROCHEMICAL ENERGY CONVERSION**

*INIS: 2000-04-12; ETDE: 1981-07-18*  
 \***BT1** energy conversion  
*RT* electrochemical cells

**electrochemical engines**

*INIS: 2000-04-12; ETDE: 1978-08-08*  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 SEE electrochemical cells

**ELECTROCHEMICAL MACHINING**

- \***BT1** chemical machining

**ELECTROCHEMISTRY**

*1999-05-04*

- BT1** chemistry  
*RT* electrochemical cells  
*RT* electrochemical corrosion  
*RT* electrochromism  
*RT* electrometallurgy  
*RT* electromotive force  
*RT* fuel cells  
*RT* photoelectrochemical cells

**ELECTROCHROMISM**

*INIS: 1999-03-02; ETDE: 1984-06-29*  
*A reversible color change in a material induced by the injection of ions under an applied current.*

- BT1** electro-optical effects  
*RT* color  
*RT* electrochemistry

**ELECTRODEPOSITED COATINGS**

- BT1** coatings  
*RT* electroplating

**ELECTRODEPOSITION**

- UF* electroforming  
 \***BT1** electrolysis  
 \***BT1** surface coating  
**NT1** electroplating  
*RT* electrometallurgy

**ELECTRODES**

- NT1** anodes  
**NT2** hollow anodes  
**NT2** photoanodes  
**NT1** cathodes  
**NT2** hollow cathodes  
**NT2** photocathodes  
**NT1** dees  
**NT1** grids  
**NT1** ion-selective electrodes  
*RT* battery paste  
*RT* electron tubes  
*RT* ion selective electrode analysis

**ELECTRODIALYSIS**

*INIS: 1993-02-18; ETDE: 1977-06-30*  
 \***BT1** dialysis

**ELECTRODYNAMICS**

- UF* electrokinetics  
**NT1** quantum electrodynamics  
**NT2** schwinger-tomonaga formalism  
*RT* born-infeld theory  
*RT* charge renormalization  
*RT* electromagnetic fields  
*RT* electromagnetic interactions  
*RT* electromagnetism  
*RT* field theories  
*RT* maxwell equations

**ELECTROENCEPHALOGRAPHY**

*INIS: 1980-07-24; ETDE: 1979-07-24*  
**BT1** diagnostic techniques  
*RT* brain

**ELECTROFISSION**

*INIS: 1977-03-14; ETDE: 1977-06-03*  
*Fission of heavy nuclei by MeV range electrons.*  
 \***BT1** electron reactions  
 \***BT1** fission

**electrofluid dynamic wind generator**

*INIS: 2000-04-12; ETDE: 1977-11-09*  
 USE efd wind generators

**electroforming**

*2006-09-04*  
 USE electrodeposition

**ELECTROGASDYNAMICS**

- \*BT1 fluid mechanics
- RT gas flow

**electrohydrodynamic channels**

- INIS: 2000-04-12; ETDE: 1979-03-28
- SEE ehd generators

**electrohydrodynamic generators**

- USE ehd generators

**ELECTROHYDRODYNAMICS**

- \*BT1 hydrodynamics
- RT direct energy conversion
- RT ehd generators

**ELECTROJETS**

- UF auroral electrojets
- UF equatorial electrojets
- \*BT1 electric currents
- RT ring currents

**electrokinetics**

- USE electrodynamics

**ELECTROLINKING**

- INIS: 2000-04-12; ETDE: 1976-06-07
- In underground gasification, the linking of holes drilled into a fossil fuel seam with the aid of electric current.
- BT1 borehole linking
- BT1 fracturing
- RT boreholes
- RT in-situ gasification

**ELECTROLUMINESCENCE**

- \*BT1 luminescence

**ELECTROLYSIS**

- BT1 lysis
- NT1 anodization
- NT1 electrodeposition
- NT2 electroplating
- NT1 electropolishing
- NT1 electrorefining
- NT1 photoelectrolysis
- RT anions
- RT cations
- RT dissociation
- RT electrochemical corrosion
- RT electrolytic cells
- RT electrometallurgy
- RT faraday laws
- RT polarography
- RT voltametry

**electrolyte tiles**

- INIS: 2000-04-12; ETDE: 1980-07-23
- USE matrix materials

**ELECTROLYTES**

- NT1 solid electrolytes
- RT dissociation
- RT donnan theory
- RT polyacetylenes

**ELECTROLYTIC CELLS**

- UF cells (electrolytic)
- UF photoelectrolytic cells
- RT electric batteries
- RT electrolysis
- RT thermal batteries
- RT voltametry

**electrolytic corrosion**

- USE electrochemical corrosion

**ELECTROMAGNETIC FIELDS**

- UF fields (electromagnetic)
- RT aharonov-bohm effect
- RT einstein-maxwell equations
- RT electric fields

- RT electrodynamics
- RT inhomogeneous fields
- RT magnetic fields
- RT maxwell equations
- RT ponderomotive force
- RT potentials
- RT weyl unified theory

**ELECTROMAGNETIC FILTERS**

- 1980-05-14
- BT1 filters
- RT corrosion products
- RT filtration
- RT primary coolant circuits
- RT water

**ELECTROMAGNETIC FORM**

- FACTORS**
- \*BT1 form factors
- RT four momentum transfer

**ELECTROMAGNETIC INTERACTIONS**

- 1995-08-10
- \*BT1 basic interactions
- NT1 compton effect
- NT1 coulomb scattering
- NT1 electroproduction
- NT1 photon-hadron interactions
- NT2 photon-baryon interactions
- NT3 photon-hyperon interactions
- NT3 photon-nucleon interactions
- NT4 photon-neutron interactions
- NT4 photon-proton interactions
- NT2 photon-meson interactions
- NT1 photon-photon interactions
- NT1 photoproduction
- NT2 primakoff effect
- NT1 umklapp processes
- RT annihilation
- RT charged currents
- RT coulomb correction
- RT electrodynamics
- RT electromagnetic particle decay
- RT electron-quark interactions
- RT grand unified theory
- RT hadron-hadron interactions
- RT lepton-hadron interactions
- RT lepton-lepton interactions
- RT neutral currents
- RT photon-lepton interactions
- RT radiative corrections
- RT standard model

**ELECTROMAGNETIC ISOTOPE SEPARATION**

- 1975-09-25
- The process.
- \*BT1 isotope separation
- RT electromagnetic isotope separators

**ELECTROMAGNETIC ISOTOPE SEPARATORS**

- 1993-11-05
- UF calutrons
- NT1 tristan separator
- RT electromagnetic isotope separation
- RT isotope separation

**ELECTROMAGNETIC LENSES**

- UF plasma lens
- BT1 lenses
- RT end effects
- RT magnetic analyzers
- RT magnets

**ELECTROMAGNETIC PARTICLE DECAY**

- INIS: 1978-02-23; ETDE: 1978-04-28
- \*BT1 particle decay
- RT electromagnetic interactions

- RT radiative decay

**ELECTROMAGNETIC PULSES**

- UF emp
- \*BT1 electromagnetic radiation
- BT1 pulses
- NT1 internal electromagnetic pulses
- RT nuclear explosions

**ELECTROMAGNETIC PUMPS**

- \*BT1 pumps

**ELECTROMAGNETIC RADIATION**

- UF electromagnetic waves
- BT1 radiations
- NT1 auroral hiss
- NT1 blackbody radiation
- NT1 bremsstrahlung
- NT2 cyclotron radiation
- NT2 internal bremsstrahlung
- NT2 undulator radiation
- NT2 synchrotron radiation
- NT1 cherenkov radiation
- NT1 coherent radiation
- NT1 electromagnetic pulses
- NT2 internal electromagnetic pulses
- NT1 gamma radiation
- NT2 delayed gamma radiation
- NT2 prompt gamma radiation
- NT1 helicon waves
- NT1 infrared radiation
- NT2 far infrared radiation
- NT2 intermediate infrared radiation
- NT2 near infrared radiation
- NT1 laser radiation
- NT1 microwave radiation
- NT2 relic radiation
- NT1 monochromatic radiation
- NT1 multipole radiation
- NT1 radiowave radiation
- NT2 long wave radiation
- NT2 medium wave radiation
- NT2 radio noise
- NT3 atmospherics
- NT3 whistlers
- NT2 radioecho
- NT2 short wave radiation
- NT2 solar radio bursts
- NT2 solar radiowave radiation
- NT1 thermal radiation
- NT1 transition radiation
- NT1 ultralow frequency radiation
- NT1 ultraviolet radiation
- NT2 extreme ultraviolet radiation
- NT2 far ultraviolet radiation
- NT2 near ultraviolet radiation
- NT1 visible radiation
- NT1 x radiation
- NT2 hard x radiation
- NT2 soft x radiation
- NT1 zodiacal light
- RT faraday effect
- RT frequency mixing
- RT harmonic generation
- RT photons
- RT radiation pressure
- RT signal distortion
- RT standing waves
- RT travelling waves
- RT wave forms

**ELECTROMAGNETIC SURVEYS**

- 1981-02-27
- A subgroup of methods of electrical exploration based on the measurement of alternating magnetic fields associated with currents artificially or naturally maintained in the subsurface.
- \*BT1 electrical surveys
- NT1 magnetotelluric surveys



*RT* geothermal exploration

**ELECTROMAGNETIC TESTING**

\*BT1 nondestructive testing

NT1 eddy current testing

**electromagnetic transitions**

USE energy-level transitions

**electromagnetic waves**

USE electromagnetic radiation

**ELECTROMAGNETISM**

BT1 magnetism

*RT* continuity equations

*RT* electrodynamics

*RT* kaluza-klein theory

**electromagnetostriction**

USE magnetostriction

**ELECTROMAGNETS**

\*BT1 electrical equipment

\*BT1 magnets

NT1 superconducting magnets

*RT* electric coils

*RT* magnetic properties

**ELECTROMECHANICS**

BT1 mechanics

**ELECTROMETALLURGY**

*UF* electrowinning

BT1 metallurgy

*RT* electrochemistry

*RT* electrodeposition

*RT* electrolysis

*RT* electrorefining

*RT* extractive metallurgy

**ELECTROMETERS**

\*BT1 electric measuring instruments

*RT* condenser ionization chambers

**electromigration**

USE electrophoresis

**ELECTROMOTIVE FORCE**

1999-06-30

*A force capable of maintaining a potential difference, and thus a current, within a circuit. It can be established by chemical action or by mechanical work.*

*UF* emf

*RT* electric batteries

*RT* electric potential

*RT* electrochemistry

**electron acceptor**

USE binding energy

USE electrons

USE valence

**electron acoustic waves**

INIS: 1984-04-04; ETDE: 1984-05-10

USE electron plasma waves

**electron affinity**

INIS: 2000-04-12; ETDE: 1979-04-11

USE affinity

**ELECTRON ANTINEUTRINOS**

\*BT1 antineutrinos

\*BT1 electron neutrinos

**ELECTRON-ATOM COLLISIONS**

\*BT1 atom collisions

\*BT1 electron collisions

**ELECTRON ATTACHMENT**

*A(neutral) + e yields A(1 minus).*

*RT* electron capture

*RT* ionization

**ELECTRON BEAM FURNACES**

BT1 furnaces

*RT* vacuum furnaces

**ELECTRON BEAM FUSION****ACCELERATOR**

INIS: 1981-02-27; ETDE: 1979-07-24

*Electron beam accelerator at Sandia Laboratories to be used for inertial confinement fusion experiments.*

*UF* ebfa

*RT* electron beam fusion reactors

*RT* inertial confinement

*RT* particle beam fusion accelerator

**ELECTRON BEAM FUSION****REACTORS**

INIS: 1982-11-29; ETDE: 1983-02-09

*UF* e-beam type reactors

*UF* electron beam type reactors

BT1 thermonuclear reactors

*RT* electron beam fusion accelerator

*RT* icf devices

*RT* inertial confinement

**electron beam induced current**

INIS: 2000-04-12; ETDE: 1983-03-23

USE scanning electron microscopy

**ELECTRON BEAM INJECTION**

BT1 beam injection

**ELECTRON BEAM ION SOURCES**

INIS: 1976-08-17; ETDE: 1976-05-13

*Ion source creating high charge states by sequential electron impact ionization.*

*UF* ebis

BT1 ion sources

*RT* electron beams

**ELECTRON BEAM MACHINING**

BT1 machining

**ELECTRON BEAM MELTING**

\*BT1 melting

**ELECTRON BEAM PUMPING**

INIS: 1993-07-12; ETDE: 1981-08-21

\*BT1 electrical pumping

*RT* excitation

*RT* lasers

*RT* stimulated emission

**ELECTRON BEAM TARGETS**

INIS: 1982-11-29; ETDE: 1978-09-11

*SF* icf targets

*SF* inertial confinement fusion targets

BT1 targets

*RT* inertial confinement

*RT* ion beam targets

*RT* laser targets

*RT* thermonuclear fuels

**electron beam type reactors**

INIS: 1982-11-29; ETDE: 1976-09-15

USE electron beam fusion reactors

**ELECTRON BEAM WELDING**

\*BT1 welding

*RT* vacuum welding

**ELECTRON BEAMS**

*UF* beta beams (electrons)

\*BT1 lepton beams

*RT* electron beam ion sources

*RT* electron cooling

*RT* electrons

*RT* llnl advanced test accelerator

*RT* pierce instability

**ELECTRON CAPTURE**

*By projectiles in collisions; not for ELECTRON CAPTURE DECAY.*

BT1 capture

*RT* charge exchange

*RT* charge states

*RT* electron attachment

*RT* recombination

**ELECTRON CAPTURE DECAY**

\*BT1 beta decay

NT1 k capture

NT1 l capture

NT1 m capture

*RT* beta-plus decay

*RT* capture

*RT* delayed protons

*RT* electron capture radioisotopes

**ELECTRON-CAPTURE DETECTORS**

*Instrument for gas analysis which incorporates an ionization chamber and internal beta source.*

\*BT1 radiometric gages

*RT* gas analysis

*RT* ionization chambers

**ELECTRON CAPTURE RADIOISOTOPES**

1997-02-07

\*BT1 beta decay radioisotopes

NT1 actinium 214

NT1 actinium 215

NT1 actinium 222

NT1 actinium 223

NT1 actinium 224

NT1 actinium 226

NT1 americium 231

NT1 americium 232

NT1 americium 233

NT1 americium 234

NT1 americium 235

NT1 americium 236

NT1 americium 237

NT1 americium 238

NT1 americium 239

NT1 americium 240

NT1 americium 242

NT1 americium 244

NT1 antimony 103

NT1 antimony 107

NT1 antimony 109

NT1 antimony 110

NT1 antimony 111

NT1 antimony 112

NT1 antimony 113

NT1 antimony 114

NT1 antimony 115

NT1 antimony 116

NT1 antimony 117

NT1 antimony 118

NT1 antimony 119

NT1 antimony 120

NT1 antimony 122

NT1 argon 37

NT1 arsenic 67

NT1 arsenic 70

NT1 arsenic 71

NT1 arsenic 72

NT1 arsenic 73

NT1 arsenic 74

NT1 astatine 195

NT1 astatine 197

NT1 astatine 199

NT1 astatine 200

NT1 astatine 201

NT1 astatine 202

NT1 astatine 203

NT1 astatine 204

NT1 astatine 205

NT1	astatine 206	NT1	cerium 121	NT1	einsteinium 244
NT1	astatine 207	NT1	cerium 122	NT1	einsteinium 245
NT1	astatine 208	NT1	cerium 123	NT1	einsteinium 246
NT1	astatine 209	NT1	cerium 126	NT1	einsteinium 247
NT1	astatine 210	NT1	cerium 127	NT1	einsteinium 248
NT1	astatine 211	NT1	cerium 128	NT1	einsteinium 249
NT1	barium 117	NT1	cerium 129	NT1	einsteinium 250
NT1	barium 119	NT1	cerium 130	NT1	einsteinium 251
NT1	barium 120	NT1	cerium 131	NT1	einsteinium 252
NT1	barium 121	NT1	cerium 132	NT1	einsteinium 254
NT1	barium 122	NT1	cerium 133	NT1	erbium 143
NT1	barium 123	NT1	cerium 134	NT1	erbium 144
NT1	barium 124	NT1	cerium 135	NT1	erbium 146
NT1	barium 125	NT1	cerium 137	NT1	erbium 147
NT1	barium 126	NT1	cerium 139	NT1	erbium 149
NT1	barium 127	NT1	cesium 114	NT1	erbium 150
NT1	barium 128	NT1	cesium 115	NT1	erbium 151
NT1	barium 129	NT1	cesium 116	NT1	erbium 152
NT1	barium 131	NT1	cesium 117	NT1	erbium 153
NT1	barium 133	NT1	cesium 118	NT1	erbium 154
NT1	berkelium 235	NT1	cesium 119	NT1	erbium 155
NT1	berkelium 236	NT1	cesium 120	NT1	erbium 156
NT1	berkelium 237	NT1	cesium 121	NT1	erbium 157
NT1	berkelium 238	NT1	cesium 122	NT1	erbium 158
NT1	berkelium 239	NT1	cesium 123	NT1	erbium 159
NT1	berkelium 240	NT1	cesium 124	NT1	erbium 160
NT1	berkelium 242	NT1	cesium 125	NT1	erbium 161
NT1	berkelium 243	NT1	cesium 126	NT1	erbium 163
NT1	berkelium 244	NT1	cesium 127	NT1	erbium 165
NT1	berkelium 245	NT1	cesium 128	NT1	europium 132
NT1	berkelium 246	NT1	cesium 129	NT1	europium 133
NT1	berkelium 248	NT1	cesium 130	NT1	europium 139
NT1	beryllium 7	NT1	cesium 131	NT1	europium 140
NT1	bismuth 190	NT1	cesium 132	NT1	europium 141
NT1	bismuth 191	NT1	cesium 134	NT1	europium 142
NT1	bismuth 192	NT1	chlorine 36	NT1	europium 143
NT1	bismuth 193	NT1	chromium 48	NT1	europium 144
NT1	bismuth 194	NT1	chromium 49	NT1	europium 145
NT1	bismuth 195	NT1	chromium 51	NT1	europium 146
NT1	bismuth 196	NT1	cobalt 49	NT1	europium 147
NT1	bismuth 197	NT1	cobalt 51	NT1	europium 148
NT1	bismuth 198	NT1	cobalt 55	NT1	europium 149
NT1	bismuth 199	NT1	cobalt 56	NT1	europium 150
NT1	bismuth 200	NT1	cobalt 57	NT1	europium 152
NT1	bismuth 201	NT1	cobalt 58	NT1	europium 154
NT1	bismuth 202	NT1	copper 55	NT1	fermium 247
NT1	bismuth 203	NT1	copper 58	NT1	fermium 249
NT1	bismuth 204	NT1	copper 60	NT1	fermium 251
NT1	bismuth 205	NT1	copper 61	NT1	fermium 253
NT1	bismuth 206	NT1	copper 62	NT1	francium 204
NT1	bismuth 207	NT1	copper 64	NT1	francium 206
NT1	bismuth 208	NT1	curium 232	NT1	francium 207
NT1	bromine 67	NT1	curium 233	NT1	francium 208
NT1	bromine 68	NT1	curium 234	NT1	francium 209
NT1	bromine 71	NT1	curium 235	NT1	francium 210
NT1	bromine 73	NT1	curium 238	NT1	francium 211
NT1	bromine 74	NT1	curium 239	NT1	francium 212
NT1	bromine 75	NT1	curium 241	NT1	francium 213
NT1	bromine 76	NT1	dubnium 258	NT1	gadolinium 135
NT1	bromine 77	NT1	dysprosium 138	NT1	gadolinium 141
NT1	bromine 78	NT1	dysprosium 139	NT1	gadolinium 143
NT1	bromine 80	NT1	dysprosium 140	NT1	gadolinium 144
NT1	cadmium 100	NT1	dysprosium 141	NT1	gadolinium 145
NT1	cadmium 101	NT1	dysprosium 143	NT1	gadolinium 146
NT1	cadmium 102	NT1	dysprosium 144	NT1	gadolinium 147
NT1	cadmium 103	NT1	dysprosium 145	NT1	gadolinium 149
NT1	cadmium 104	NT1	dysprosium 147	NT1	gadolinium 151
NT1	cadmium 105	NT1	dysprosium 148	NT1	gadolinium 153
NT1	cadmium 107	NT1	dysprosium 149	NT1	gallium 62
NT1	cadmium 109	NT1	dysprosium 150	NT1	gallium 63
NT1	cadmium 96	NT1	dysprosium 151	NT1	gallium 64
NT1	cadmium 97	NT1	dysprosium 152	NT1	gallium 65
NT1	calcium 41	NT1	dysprosium 153	NT1	gallium 66
NT1	californium 241	NT1	dysprosium 155	NT1	gallium 67
NT1	californium 243	NT1	dysprosium 157	NT1	gallium 68
NT1	californium 245	NT1	dysprosium 159	NT1	gallium 70
NT1	californium 247	NT1	einsteinium 240	NT1	germanium 63
NT1	cerium 119	NT1	einsteinium 241	NT1	germanium 64
NT1	cerium 120	NT1	einsteinium 242	NT1	germanium 65

NTI	germanium 66	NTI	iodine 115	NTI	lead 198
NTI	germanium 67	NTI	iodine 116	NTI	lead 199
NTI	germanium 68	NTI	iodine 117	NTI	lead 200
NTI	germanium 69	NTI	iodine 118	NTI	lead 201
NTI	germanium 71	NTI	iodine 119	NTI	lead 202
NTI	gold 180	NTI	iodine 120	NTI	lead 203
NTI	gold 181	NTI	iodine 121	NTI	lead 205
NTI	gold 182	NTI	iodine 122	NTI	lutetium 150
NTI	gold 183	NTI	iodine 123	NTI	lutetium 153
NTI	gold 184	NTI	iodine 124	NTI	lutetium 154
NTI	gold 185	NTI	iodine 125	NTI	lutetium 155
NTI	gold 186	NTI	iodine 126	NTI	lutetium 156
NTI	gold 187	NTI	iodine 128	NTI	lutetium 157
NTI	gold 188	NTI	iridium 178	NTI	lutetium 158
NTI	gold 189	NTI	iridium 179	NTI	lutetium 159
NTI	gold 190	NTI	iridium 180	NTI	lutetium 160
NTI	gold 191	NTI	iridium 181	NTI	lutetium 161
NTI	gold 192	NTI	iridium 182	NTI	lutetium 162
NTI	gold 193	NTI	iridium 183	NTI	lutetium 163
NTI	gold 194	NTI	iridium 184	NTI	lutetium 164
NTI	gold 195	NTI	iridium 185	NTI	lutetium 165
NTI	gold 196	NTI	iridium 186	NTI	lutetium 166
NTI	hafnium 154	NTI	iridium 187	NTI	lutetium 167
NTI	hafnium 155	NTI	iridium 188	NTI	lutetium 168
NTI	hafnium 157	NTI	iridium 189	NTI	lutetium 169
NTI	hafnium 158	NTI	iridium 190	NTI	lutetium 170
NTI	hafnium 159	NTI	iridium 192	NTI	lutetium 171
NTI	hafnium 160	NTI	iron 45	NTI	lutetium 172
NTI	hafnium 162	NTI	iron 52	NTI	lutetium 173
NTI	hafnium 163	NTI	iron 53	NTI	lutetium 174
NTI	hafnium 166	NTI	iron 55	NTI	manganese 51
NTI	hafnium 167	NTI	krypton 69	NTI	manganese 52
NTI	hafnium 168	NTI	krypton 71	NTI	manganese 53
NTI	hafnium 169	NTI	krypton 72	NTI	manganese 54
NTI	hafnium 170	NTI	krypton 73	NTI	mendelevium 245
NTI	hafnium 171	NTI	krypton 74	NTI	mendelevium 246
NTI	hafnium 172	NTI	krypton 75	NTI	mendelevium 248
NTI	hafnium 173	NTI	krypton 76	NTI	mendelevium 249
NTI	hafnium 175	NTI	krypton 77	NTI	mendelevium 250
NTI	holmium 142	NTI	krypton 79	NTI	mendelevium 251
NTI	holmium 143	NTI	krypton 81	NTI	mendelevium 252
NTI	holmium 145	NTI	lanthanum 117	NTI	mendelevium 253
NTI	holmium 147	NTI	lanthanum 118	NTI	mendelevium 254
NTI	holmium 149	NTI	lanthanum 119	NTI	mendelevium 255
NTI	holmium 150	NTI	lanthanum 120	NTI	mendelevium 256
NTI	holmium 151	NTI	lanthanum 121	NTI	mendelevium 257
NTI	holmium 152	NTI	lanthanum 122	NTI	mendelevium 258
NTI	holmium 153	NTI	lanthanum 123	NTI	mercury 177
NTI	holmium 154	NTI	lanthanum 124	NTI	mercury 178
NTI	holmium 155	NTI	lanthanum 125	NTI	mercury 179
NTI	holmium 156	NTI	lanthanum 126	NTI	mercury 180
NTI	holmium 157	NTI	lanthanum 127	NTI	mercury 181
NTI	holmium 158	NTI	lanthanum 128	NTI	mercury 182
NTI	holmium 159	NTI	lanthanum 129	NTI	mercury 183
NTI	holmium 160	NTI	lanthanum 130	NTI	mercury 184
NTI	holmium 161	NTI	lanthanum 131	NTI	mercury 185
NTI	holmium 162	NTI	lanthanum 132	NTI	mercury 186
NTI	holmium 163	NTI	lanthanum 133	NTI	mercury 187
NTI	holmium 164	NTI	lanthanum 134	NTI	mercury 188
NTI	indium 102	NTI	lanthanum 135	NTI	mercury 189
NTI	indium 103	NTI	lanthanum 136	NTI	mercury 190
NTI	indium 104	NTI	lanthanum 137	NTI	mercury 191
NTI	indium 105	NTI	lanthanum 138	NTI	mercury 192
NTI	indium 106	NTI	lawrencium 251	NTI	mercury 193
NTI	indium 107	NTI	lawrencium 254	NTI	mercury 194
NTI	indium 108	NTI	lawrencium 255	NTI	mercury 195
NTI	indium 109	NTI	lawrencium 256	NTI	mercury 197
NTI	indium 110	NTI	lead 186	NTI	molybdenum 83
NTI	indium 111	NTI	lead 187	NTI	molybdenum 87
NTI	indium 112	NTI	lead 188	NTI	molybdenum 88
NTI	indium 114	NTI	lead 189	NTI	molybdenum 89
NTI	indium 97	NTI	lead 190	NTI	molybdenum 90
NTI	indium 98	NTI	lead 191	NTI	molybdenum 91
NTI	indium 99	NTI	lead 192	NTI	molybdenum 93
NTI	iodine 110	NTI	lead 193	NTI	neodymium 125
NTI	iodine 111	NTI	lead 194	NTI	neodymium 126
NTI	iodine 112	NTI	lead 195	NTI	neodymium 129
NTI	iodine 113	NTI	lead 196	NTI	neodymium 130
NTI	iodine 114	NTI	lead 197	NTI	neodymium 132

NT1 neodymium 133  
NT1 neodymium 134  
NT1 neodymium 135  
NT1 neodymium 136  
NT1 neodymium 137  
NT1 neodymium 138  
NT1 neodymium 139  
NT1 neodymium 140  
NT1 neodymium 141  
NT1 neptunium 230  
NT1 neptunium 231  
NT1 neptunium 232  
NT1 neptunium 233  
NT1 neptunium 234  
NT1 neptunium 235  
NT1 neptunium 236  
NT1 nickel 48  
NT1 nickel 51  
NT1 nickel 56  
NT1 nickel 57  
NT1 nickel 59  
NT1 niobium 82  
NT1 niobium 84  
NT1 niobium 85  
NT1 niobium 86  
NT1 niobium 87  
NT1 niobium 88  
NT1 niobium 90  
NT1 niobium 91  
NT1 niobium 92  
NT1 nitrogen 13  
NT1 nobelium 253  
NT1 nobelium 254  
NT1 nobelium 255  
NT1 nobelium 259  
NT1 osmium 166  
NT1 osmium 167  
NT1 osmium 168  
NT1 osmium 169  
NT1 osmium 170  
NT1 osmium 171  
NT1 osmium 172  
NT1 osmium 173  
NT1 osmium 174  
NT1 osmium 175  
NT1 osmium 176  
NT1 osmium 177  
NT1 osmium 178  
NT1 osmium 179  
NT1 osmium 180  
NT1 osmium 181  
NT1 osmium 182  
NT1 osmium 183  
NT1 osmium 185  
NT1 palladium 100  
NT1 palladium 101  
NT1 palladium 103  
NT1 palladium 91  
NT1 palladium 92  
NT1 palladium 94  
NT1 palladium 95  
NT1 palladium 96  
NT1 palladium 97  
NT1 palladium 98  
NT1 palladium 99  
NT1 platinum 173  
NT1 platinum 174  
NT1 platinum 175  
NT1 platinum 176  
NT1 platinum 177  
NT1 platinum 178  
NT1 platinum 179  
NT1 platinum 180  
NT1 platinum 181  
NT1 platinum 182  
NT1 platinum 183  
NT1 platinum 184  
NT1 platinum 185  
NT1 platinum 186

NT1 platinum 187  
NT1 platinum 188  
NT1 platinum 189  
NT1 platinum 191  
NT1 platinum 193  
NT1 plutonium 232  
NT1 plutonium 233  
NT1 plutonium 234  
NT1 plutonium 235  
NT1 plutonium 237  
NT1 polonium 196  
NT1 polonium 197  
NT1 polonium 198  
NT1 polonium 199  
NT1 polonium 200  
NT1 polonium 201  
NT1 polonium 202  
NT1 polonium 203  
NT1 polonium 204  
NT1 polonium 205  
NT1 polonium 206  
NT1 polonium 207  
NT1 polonium 208  
NT1 polonium 209  
NT1 potassium 40  
NT1 praseodymium 125  
NT1 praseodymium 127  
NT1 praseodymium 128  
NT1 praseodymium 129  
NT1 praseodymium 130  
NT1 praseodymium 132  
NT1 praseodymium 133  
NT1 praseodymium 134  
NT1 praseodymium 135  
NT1 praseodymium 136  
NT1 praseodymium 137  
NT1 praseodymium 138  
NT1 praseodymium 139  
NT1 praseodymium 140  
NT1 praseodymium 142  
NT1 promethium 126  
NT1 promethium 127  
NT1 promethium 128  
NT1 promethium 129  
NT1 promethium 130  
NT1 promethium 131  
NT1 promethium 132  
NT1 promethium 133  
NT1 promethium 134  
NT1 promethium 135  
NT1 promethium 136  
NT1 promethium 137  
NT1 promethium 138  
NT1 promethium 139  
NT1 promethium 140  
NT1 promethium 141  
NT1 promethium 142  
NT1 promethium 143  
NT1 promethium 144  
NT1 promethium 145  
NT1 promethium 146  
NT1 protactinium 226  
NT1 protactinium 227  
NT1 protactinium 228  
NT1 protactinium 229  
NT1 protactinium 230  
NT1 radium 213  
NT1 radium 214  
NT1 radon 198  
NT1 radon 200  
NT1 radon 201  
NT1 radon 202  
NT1 radon 203  
NT1 radon 204  
NT1 radon 205  
NT1 radon 206  
NT1 radon 207  
NT1 radon 208  
NT1 radon 209

NT1 radon 210  
NT1 radon 211  
NT1 rhenium 163  
NT1 rhenium 164  
NT1 rhenium 165  
NT1 rhenium 168  
NT1 rhenium 170  
NT1 rhenium 171  
NT1 rhenium 172  
NT1 rhenium 173  
NT1 rhenium 174  
NT1 rhenium 175  
NT1 rhenium 176  
NT1 rhenium 177  
NT1 rhenium 178  
NT1 rhenium 179  
NT1 rhenium 180  
NT1 rhenium 181  
NT1 rhenium 182  
NT1 rhenium 183  
NT1 rhenium 184  
NT1 rhenium 186  
NT1 rhodium 100  
NT1 rhodium 101  
NT1 rhodium 102  
NT1 rhodium 104  
NT1 rhodium 89  
NT1 rhodium 90  
NT1 rhodium 91  
NT1 rhodium 92  
NT1 rhodium 93  
NT1 rhodium 95  
NT1 rhodium 96  
NT1 rhodium 97  
NT1 rhodium 98  
NT1 rhodium 99  
NT1 rubidium 76  
NT1 rubidium 77  
NT1 rubidium 78  
NT1 rubidium 79  
NT1 rubidium 81  
NT1 rubidium 82  
NT1 rubidium 83  
NT1 rubidium 84  
NT1 rubidium 86  
NT1 ruthenium 87  
NT1 ruthenium 90  
NT1 ruthenium 91  
NT1 ruthenium 92  
NT1 ruthenium 93  
NT1 ruthenium 94  
NT1 ruthenium 95  
NT1 ruthenium 97  
NT1 samarium 129  
NT1 samarium 130  
NT1 samarium 132  
NT1 samarium 133  
NT1 samarium 134  
NT1 samarium 135  
NT1 samarium 136  
NT1 samarium 137  
NT1 samarium 138  
NT1 samarium 139  
NT1 samarium 140  
NT1 samarium 141  
NT1 samarium 142  
NT1 samarium 143  
NT1 samarium 145  
NT1 scandium 44  
NT1 selenium 69  
NT1 selenium 70  
NT1 selenium 71  
NT1 selenium 72  
NT1 selenium 73  
NT1 selenium 75  
NT1 silver 100  
NT1 silver 101  
NT1 silver 102  
NT1 silver 103

NTI silver 104	NTI terbium 149	NTI tungsten 177
NTI silver 105	NTI terbium 150	NTI tungsten 178
NTI silver 106	NTI terbium 151	NTI tungsten 179
NTI silver 108	NTI terbium 152	NTI tungsten 181
NTI silver 110	NTI terbium 153	NTI uranium 228
NTI silver 93	NTI terbium 154	NTI uranium 229
NTI silver 95	NTI terbium 155	NTI uranium 231
NTI silver 96	NTI terbium 156	NTI vanadium 42
NTI silver 97	NTI terbium 157	NTI vanadium 45
NTI silver 98	NTI terbium 158	NTI vanadium 47
NTI silver 99	NTI thallium 178	NTI vanadium 48
NTI sodium 20	NTI thallium 180	NTI vanadium 49
NTI strontium 73	NTI thallium 181	NTI vanadium 50
NTI strontium 74	NTI thallium 184	NTI xenon 110
NTI strontium 76	NTI thallium 186	NTI xenon 111
NTI strontium 78	NTI thallium 187	NTI xenon 112
NTI strontium 79	NTI thallium 188	NTI xenon 113
NTI strontium 80	NTI thallium 189	NTI xenon 114
NTI strontium 81	NTI thallium 190	NTI xenon 115
NTI strontium 82	NTI thallium 191	NTI xenon 116
NTI strontium 83	NTI thallium 192	NTI xenon 117
NTI strontium 85	NTI thallium 193	NTI xenon 118
NTI strontium 87	NTI thallium 194	NTI xenon 119
NTI tantalum 158	NTI thallium 195	NTI xenon 120
NTI tantalum 159	NTI thallium 196	NTI xenon 121
NTI tantalum 160	NTI thallium 197	NTI xenon 122
NTI tantalum 165	NTI thallium 198	NTI xenon 123
NTI tantalum 166	NTI thallium 199	NTI xenon 125
NTI tantalum 167	NTI thallium 200	NTI xenon 127
NTI tantalum 168	NTI thallium 201	NTI ytterbium 148
NTI tantalum 169	NTI thallium 202	NTI ytterbium 149
NTI tantalum 170	NTI thallium 204	NTI ytterbium 153
NTI tantalum 171	NTI thorium 225	NTI ytterbium 155
NTI tantalum 172	NTI thulium 148	NTI ytterbium 156
NTI tantalum 173	NTI thulium 152	NTI ytterbium 157
NTI tantalum 174	NTI thulium 153	NTI ytterbium 158
NTI tantalum 175	NTI thulium 154	NTI ytterbium 159
NTI tantalum 176	NTI thulium 155	NTI ytterbium 160
NTI tantalum 177	NTI thulium 156	NTI ytterbium 161
NTI tantalum 178	NTI thulium 157	NTI ytterbium 162
NTI tantalum 179	NTI thulium 158	NTI ytterbium 163
NTI tantalum 180	NTI thulium 159	NTI ytterbium 164
NTI technetium 85	NTI thulium 160	NTI ytterbium 165
NTI technetium 86	NTI thulium 161	NTI ytterbium 166
NTI technetium 87	NTI thulium 162	NTI ytterbium 167
NTI technetium 90	NTI thulium 163	NTI ytterbium 169
NTI technetium 91	NTI thulium 164	NTI yttrium 78
NTI technetium 92	NTI thulium 165	NTI yttrium 79
NTI technetium 93	NTI thulium 166	NTI yttrium 80
NTI technetium 94	NTI thulium 167	NTI yttrium 81
NTI technetium 95	NTI thulium 168	NTI yttrium 83
NTI technetium 96	NTI thulium 170	NTI yttrium 84
NTI technetium 97	NTI tin 100	NTI yttrium 85
NTI tellurium 107	NTI tin 102	NTI yttrium 86
NTI tellurium 108	NTI tin 106	NTI yttrium 87
NTI tellurium 109	NTI tin 107	NTI yttrium 88
NTI tellurium 110	NTI tin 108	NTI zinc 55
NTI tellurium 111	NTI tin 109	NTI zinc 56
NTI tellurium 112	NTI tin 110	NTI zinc 60
NTI tellurium 113	NTI tin 111	NTI zinc 61
NTI tellurium 114	NTI tin 113	NTI zinc 62
NTI tellurium 115	NTI tin 99	NTI zinc 63
NTI tellurium 116	NTI titanium 44	NTI zinc 65
NTI tellurium 117	NTI titanium 45	NTI zirconium 78
NTI tellurium 118	NTI tungsten 161	NTI zirconium 79
NTI tellurium 119	NTI tungsten 162	NTI zirconium 84
NTI tellurium 121	NTI tungsten 163	NTI zirconium 85
NTI tellurium 123	NTI tungsten 164	NTI zirconium 86
NTI terbium 136	NTI tungsten 165	NTI zirconium 87
NTI terbium 137	NTI tungsten 166	NTI zirconium 88
NTI terbium 138	NTI tungsten 168	NTI zirconium 89
NTI terbium 139	NTI tungsten 169	RT electron capture decay
NTI terbium 141	NTI tungsten 170	<b>ELECTRON CHANNELING</b>
NTI terbium 142	NTI tungsten 171	BTI channeling
NTI terbium 143	NTI tungsten 172	RT crystal lattices
NTI terbium 144	NTI tungsten 173	<b>ELECTRON COLLISIONS</b>
NTI terbium 146	NTI tungsten 174	BTI collisions
NTI terbium 147	NTI tungsten 175	NTI electron-atom collisions
NTI terbium 148	NTI tungsten 176	

**NTI** electron-electron collisions  
**NTI** electron-ion collisions  
**NTI** electron-molecule collisions  
**NTI** electron-positron collisions  
**NTI** photon-electron collisions

**electron compounds**

2003-05-30

USE intermetallic compounds

**electron configuration (atoms)**

USE electronic structure

**ELECTRON COOLING**

1975-08-22

*Reduction of particle beam oscillations by collisions with a low energy electron beam.*

**BT1** beam cooling  
**RT** beam luminosity  
**RT** coulomb scattering  
**RT** electron beams  
**RT** proton beams

**ELECTRON CORRELATION***In atomic models.*

UF correlation energy

**BT1** correlations  
**RT** atomic models  
**RT** density functional method

**electron cyclotron masers**

INIS: 2000-04-12; ETDE: 1978-04-06

USE microwave amplifiers

**ELECTRON CYCLOTRON-RESONANCE**

UF ecr

\***BT1** cyclotron resonance  
**RT** ecr heating  
**RT** ecr ion sources

**electron cyclotron-resonance current drive**

INIS: 1999-07-26; ETDE: 1999-09-03

USE ecr current drive

**electron cyclotron-resonance heating**

USE ecr heating

**electron cyclotron-resonance ion sources**

1995-07-03

USE ecr ion sources

**ELECTRON DENSITY**

UF density (electron)

**RT** current density  
**RT** electrons  
**RT** plasma eaters

**ELECTRON DETACHMENT***A(1 minus) yields A(neutral) + e.*

**RT** electron loss  
**RT** ionization

**ELECTRON DETECTION**

\***BT1** charged particle detection  
**RT** beta detection  
**RT** beta spectrometers  
**RT** electron dosimetry  
**RT** electron spectrometers  
**RT** positron detection

**electron-deuteron interactions**

(Prior to March 1996 this was a valid ETDE descriptor.)

USE electron-neutron interactions  
 USE electron-proton interactions

**ELECTRON DIFFRACTION**

UF diffraction (electron)

UF leed

UF low energy electron diffraction

\***BT1** diffraction  
**RT** crystallography  
**RT** diffuse scattering  
**RT** kikuchi lines

**electron donor**

USE binding energy  
 USE electrons  
 USE valence

**ELECTRON DOSIMETRY**

**BT1** dosimetry  
**RT** electron detection

**ELECTRON DRIFT**

UF drift (electron)  
**RT** ambipolar diffusion  
**RT** electrons

**ELECTRON-ELECTRON COLLISIONS**\***BT1** electron collisions**ELECTRON-ELECTRON COUPLING**

1998-10-23

**BT1** coupling  
**RT** superconductivity

**electron-electron double resonance**

1993-11-05

USE eldor

**ELECTRON-ELECTRON INTERACTIONS**\***BT1** lepton-lepton interactions**ELECTRON EMISSION**

UF emission (electron)  
**BT1** emission  
**NTI** photoelectric emission  
**RT** auger effect  
**RT** electron sources  
**RT** field emission  
**RT** internal electromagnetic pulses  
**RT** thermionic emission  
**RT** work functions

**ELECTRON EXCHANGE**

UF exchange (electron)  
**BT1** electron transfer  
**RT** atom-atom collisions  
**RT** atom-molecule collisions

**ELECTRON GAS**

**RT** fermi gas  
**RT** gases  
**RT** pines-bohm theory  
**RT** solid-state plasma

**ELECTRON GUNS**

1999-07-02

UF guns (electron)  
**NTI** pierce electron guns  
**RT** electron tubes

**ELECTRON-HOLE COUPLING**

INIS: 1989-09-14; ETDE: 1980-03-29

**BT1** coupling  
**RT** electrons  
**RT** holes  
**RT** superconductivity

**ELECTRON-HOLE DROPLETS**

INIS: 1999-10-07; ETDE: 1979-02-23

\***BT1** solid-state plasma  
**RT** charge carriers  
**RT** excitons  
**RT** holes

**electron-hole plasma**

INIS: 1983-06-30; ETDE: 2002-06-13

USE solid-state plasma

**electron holes**

ETDE: 1975-09-11

USE holes

**ELECTRON-ION COLLISIONS**

\***BT1** electron collisions  
 \***BT1** ion collisions

**ELECTRON-ION COUPLING**

1984-04-04

**BT1** coupling  
**RT** superconductivity

**ELECTRON LOSS**

**RT** beam strippers  
**RT** charge exchange  
**RT** charge states  
**RT** electron detachment  
**RT** ionization

**ELECTRON-MESON INTERACTIONS**

\***BT1** lepton-meson interactions  
**NTI** electron-pion interactions

**ELECTRON MICROPROBE ANALYSIS**

**BT1** microanalysis  
 \***BT1** nondestructive analysis  
**RT** ceramography  
**RT** electron probes  
**RT** post-irradiation examination

**ELECTRON MICROSCOPES****BT1** microscopes**ELECTRON MICROSCOPY**

**BT1** microscopy  
**NTI** scanning electron microscopy  
**NTI** transmission electron microscopy  
**RT** cytological techniques  
**RT** dielectric track detectors  
**RT** electron scanning  
**RT** labelled compounds  
**RT** replicas  
**RT** resolution  
**RT** sample preparation  
**RT** ultrastructural changes

**ELECTRON MOBILITY**

\***BT1** particle mobility  
**RT** electric conductors  
**RT** semiconductor materials

**ELECTRON-MOLECULE COLLISIONS**

\***BT1** electron collisions  
 \***BT1** molecule collisions

**ELECTRON MULTIPLIER DETECTORS**

\***BT1** radiation detectors  
**RT** electron multipliers

**ELECTRON MULTIPLIERS**

UF multiplier tubes  
**BT1** electron tubes  
**NTI** microchannel electron multipliers  
**RT** dynodes  
**RT** electron multiplier detectors  
**RT** photomultipliers

**ELECTRON-MUON INTERACTIONS**\***BT1** lepton-lepton interactions**ELECTRON-MUON-TAU UNIVERSALITY**

INIS: 1989-09-14; ETDE: 1989-10-16

*Identity of all properties but mass.*

**NTI** electron-muon universality  
**RT** electrons  
**RT** muons

*RT* tau particles

### ELECTRON-MUON UNIVERSALITY

*Identity of all properties but mass.*

*BT1* electron-muon-tau universality  
*RT* electrons  
*RT* muons

### ELECTRON NEUTRINOS

\**BT1* neutrinos  
*NT1* electron antineutrinos

### ELECTRON-NEUTRON INTERACTIONS

(From February 1975 until March 1996  
ELECTRON-DEUTERON INTERACTIONS  
was a valid ETDE descriptor.)

*UF* *electron-deuteron interactions*  
\**BT1* electron-nucleon interactions

### *electron nuclear double resonance*

USE *endor*

### ELECTRON-NUCLEON INTERACTIONS

\**BT1* lepton-nucleon interactions  
*NT1* electron-neutron interactions  
*NT1* electron-proton interactions

### ELECTRON PAIRS

*RT* electrons  
*RT* pair production  
*RT* positrons

### *electron paramagnetic resonance*

USE *electron spin resonance*

### ELECTRON-PHONON COUPLING

*1983-03-15*

*BT1* coupling  
*RT* crystal lattices  
*RT* electrons  
*RT* phonons  
*RT* superconductivity

### ELECTRON-PION INTERACTIONS

*INIS: 1982-08-27; ETDE: 1979-04-11*

\**BT1* electron-meson interactions

### ELECTRON PLASMA WAVES

*UF* *electron acoustic waves*  
*BT1* plasma waves

### ELECTRON-POSITRON COLLISIONS

\**BT1* electron collisions  
\**BT1* positron collisions

### ELECTRON-POSITRON INTERACTIONS

\**BT1* lepton-lepton interactions

### ELECTRON PRECIPITATION

*BT1* charged-particle precipitation  
*RT* aurorae  
*RT* auroral oval  
*RT* midday aurorae  
*RT* polar cusp  
*RT* radiation belts  
*RT* trapped electrons

### ELECTRON PROBES

*BT1* probes  
*RT* electron microprobe analysis  
*RT* x-ray emission analysis

### ELECTRON-PROMOTION MODEL

*UF* *fano-lichten model*  
*BT1* mathematical models  
*RT* diabatic approximation  
*RT* ion-atom collisions

### ELECTRON-PROTON INTERACTIONS

(From February 1975 until March 1996  
ELECTRON-DEUTERON INTERACTIONS  
was a valid ETDE descriptor.)

*UF* *electron-deuteron interactions*  
\**BT1* electron-nucleon interactions

### ELECTRON-QUARK INTERACTIONS

*INIS: 1995-08-10; ETDE: 1985-08-09*

\**BT1* particle interactions  
*RT* electromagnetic interactions  
*RT* intermediate vector bosons  
*RT* weak interactions

### ELECTRON REACTIONS

\**BT1* charged-particle reactions  
\**BT1* lepton reactions  
*NT1* electrofission

### ELECTRON-RING ACCELERATORS

*UF* *adagezator*  
*UF* *ion-drag accelerators*  
*UF* *ringotron*  
*UF* *smokatron*  
\**BT1* collective accelerators  
*RT* electron rings

### ELECTRON RINGS

*INIS: 1976-05-07; ETDE: 1978-03-08*

*RT* confinement  
*RT* electron-ring accelerators  
*RT* magnetic confinement

### ELECTRON SCANNING

*UF* *scanning (electron)*  
*RT* cathode ray tubes  
*RT* electron microscopy

### ELECTRON SOURCES

\**BT1* particle sources  
*NT1* pierce electron guns  
*RT* electron emission  
*RT* thermionic emitters

### ELECTRON SPECTRA

*INIS: 1975-11-27; ETDE: 1976-01-26*

*BT1* spectra  
*RT* x-ray photoelectron spectroscopy

### ELECTRON SPECTROMETERS

\**BT1* spectrometers  
*RT* electron detection

### ELECTRON SPECTROSCOPY

*BT1* spectroscopy  
*NT1* auger electron spectroscopy  
*NT1* energy-loss spectroscopy  
*NT1* photoelectron spectroscopy  
  *NT2* x-ray photoelectron spectroscopy  
*RT* electrons

### *electron-spin echo*

*INIS: 2000-04-12; ETDE: 1980-03-29*

SEE *acoustic esr*

### ELECTRON SPIN RESONANCE

*UF* *electron paramagnetic resonance*  
*UF* *epr*  
*UF* *esr*  
*UF* *paramagnetic resonance (electron)*  
\**BT1* magnetic resonance  
*NT1* acoustic esr  
*RT* double resonance methods  
*RT* overhauser effect  
*RT* structural chemical analysis

### ELECTRON TEMPERATURE

*UF* *plasma temperature*  
*UF* *temperature (electron)*  
*RT* electrons

*RT* energy

### ELECTRON TRANSFER

*Not for the concept covered by CHARGE EXCHANGE.*

*UF* *transfer (electron)*  
*NT1* electron exchange  
*RT* carrier mobility

### ELECTRON TUBES

*UF* *storage tubes*  
*NT1* cathode ray tubes  
*NT1* cold cathode tubes  
*NT1* counting tubes  
*NT1* diode tubes  
  *NT2* thermionic diodes  
*NT1* electron multipliers  
  *NT2* microchannel electron multipliers  
*NT1* gas discharge tubes  
  *NT2* flash tubes  
  *NT2* ignitrons  
  *NT2* thyratrons  
*NT1* gyrocons  
*NT1* microwave tubes  
  *NT2* backward wave tubes  
  *NT2* klystrons  
  *NT2* lasertrons  
  *NT2* magnetrons  
  *NT2* travelling wave tubes  
*NT1* plasmatoms  
  *NT2* duoplasmatrons  
  *NT2* triplasmatoms  
*NT1* rectifier tubes  
  *NT2* ignitrons  
*NT1* thermionic tubes  
  *NT2* thermionic diodes  
*NT1* triode tubes  
*NT1* x-ray tubes  
*RT* cathodes  
*RT* electrical equipment  
*RT* electrodes  
*RT* electron guns  
*RT* electronic equipment  
*RT* gettering  
*RT* getters  
*RT* image tubes  
*RT* phototubes  
*RT* space charge  
*RT* thermionic emission  
*RT* work functions

### ELECTRONEGATIVITY

*RT* affinity  
*RT* ionization potential

### ELECTRONIC CIRCUITS

*UF* *circuits (electronic)*  
*NT1* cambelling circuits  
*NT1* cathode followers  
*NT1* coincidence circuits  
*NT1* comparator circuits  
*NT1* counting circuits  
*NT1* delay circuits  
*NT1* digital circuits  
*NT1* discriminators  
  *NT2* pulse discriminators  
*NT1* equivalent circuits  
*NT1* gating circuits  
*NT1* limiter circuits  
*NT1* logic circuits  
*NT1* microelectronic circuits  
  *NT2* integrated circuits  
  *NT2* microprocessors  
*NT1* power conditioning circuits  
*NT1* printed circuits  
*NT1* pulse circuits  
  *NT2* multivibrators  
  *NT3* flip-flop circuits  
*NT2* pulse discriminators  
*NT2* signal conditioners

**NT3** digitizers  
**NT4** cathode ray tube digitizers  
**NT4** flying spot digitizers  
**NT4** scanning measuring projectors  
**NT4** spiral reader digitizers  
**NT3** pulse shapers  
**NT2** trigger circuits  
**NT3** transistor trigger circuits  
**NT1** sequential circuits  
**NT1** sweep circuits  
**NT1** switching circuits  
**NT2** transistor switching circuits  
**NT1** tank circuits  
**NT1** timing circuits  
*RT* amplifiers  
*RT* analog systems  
*RT* circuit breakers  
*RT* circuit theory  
*RT* counting techniques  
*RT* digital systems  
*RT* electric grounds  
*RT* electrical equipment  
*RT* electronic equipment  
*RT* lock-in amplifiers  
*RT* microelectronics  
*RT* oscillators  
*RT* response functions  
*RT* speech synthesizers  
*RT* transistors

**electronic data processing**

USE data processing

**ELECTRONIC EQUIPMENT**

**BT1** equipment  
**NT1** amplifiers  
**NT2** ac amplifiers  
**NT2** dc amplifiers  
**NT2** dielectric amplifiers  
**NT2** high frequency amplifiers  
**NT2** lock-in amplifiers  
**NT2** magnetic amplifiers  
**NT2** microwave amplifiers  
**NT3** masers  
**NT2** operational amplifiers  
**NT2** parametric amplifiers  
**NT2** power amplifiers  
**NT2** preamplifiers  
**NT2** pulse amplifiers  
**NT2** transistor amplifiers  
**NT1** analog-to-digital converters  
**NT1** counting ratemeters  
**NT2** linear ratemeters  
**NT2** logarithmic ratemeters  
**NT1** digital-to-analog converters  
**NT1** function generators  
**NT2** pulse generators  
**NT3** high-voltage pulse generators  
**NT4** marx generators  
**NT1** microwave equipment  
**NT2** heterodyne receivers  
**NT2** microwave amplifiers  
**NT3** masers  
**NT2** microwave dryers  
**NT2** microwave tubes  
**NT3** backward wave tubes  
**NT3** klystrons  
**NT3** lasertrons  
**NT3** magnetrons  
**NT3** travelling wave tubes  
**NT2** squid devices  
**NT1** multiplexers  
**NT1** oscillators  
**NT2** blocking oscillators  
**NT2** parametric oscillators  
**NT2** transistor oscillators  
**NT1** oscillographs  
**NT1** power supplies  
**NT2** marx generators  
**NT2** photovoltaic power supplies

**NT2** radio equipment power supplies  
**NT2** spacecraft power supplies  
**NT2** uninterruptible power supplies  
**NT1** pulse analyzers  
**NT2** multi-channel analyzers  
**NT1** pulse converters  
**NT2** current-to-frequency converters  
**NT2** time-to-amplitude converters  
**NT1** pulse integrators  
**NT1** radio equipment  
**NT2** heterodyne receivers  
**NT2** ionosondes  
**NT2** radio telescopes  
**NT1** resonators  
**NT2** cavity resonators  
**NT3** superconducting cavity resonators  
**NT1** scalars  
**NT1** speech synthesizers  
*RT* analog systems  
*RT* atomic clocks  
*RT* camac system  
*RT* computer architecture  
*RT* computers  
*RT* consoles  
*RT* counting techniques  
*RT* data acquisition systems  
*RT* digital systems  
*RT* digitizers  
*RT* display devices  
*RT* electric measuring instruments  
*RT* electrical equipment  
*RT* electron tubes  
*RT* electronic circuits  
*RT* electronic guidance  
*RT* equipment interfaces  
*RT* image scanners  
*RT* miniaturization  
*RT* nuclear instrument modules  
*RT* potting  
*RT* potting materials  
*RT* pulse techniques  
*RT* radar  
*RT* reactor components  
*RT* recording systems  
*RT* semiconductor devices  
*RT* sensors  
*RT* sonar  
*RT* standby mode  
*RT* x-ray equipment

**ELECTRONIC GUIDANCE**

*UF* guidance (electronic)  
**BT1** control systems  
*RT* electronic equipment  
*RT* inertial guidance  
*RT* navigational instruments  
*RT* rockets  
*RT* space vehicles

**ELECTRONIC SPECIFIC HEAT**

*Electronic contribution to the specific heat of electronic conductors.*

**\*BT1** specific heat  
*RT* magnetic specific heat  
*RT* nuclear specific heat

**ELECTRONIC STRUCTURE**

*For electron configuration in atoms and molecules, and electron band structure in solids.*

*UF* atomic shells  
*UF* electron configuration (atoms)  
**NT1** k shell  
**NT1** l shell  
**NT1** m shell  
**NT1** n shell  
*RT* atomic models  
*RT* atomic radii  
*RT* aufbau principle  
*RT* band theory

*RT* configuration interaction  
*RT* conformational changes  
*RT* crystal field  
*RT* energy levels  
*RT* extreme ultraviolet spectra  
*RT* hartree-fock method  
*RT* heisenberg model  
*RT* hsk procedure  
*RT* hubbard model  
*RT* hybridization  
*RT* isoelectronic atoms  
*RT* molecular orbital method  
*RT* muffin-tin potential  
*RT* nanostructures  
*RT* photoelectron spectroscopy  
*RT* rydberg-klein-rees method  
*RT* rydberg states  
*RT* slater method  
*RT* ultraviolet spectra

**electronics (quantum)**

*INIS: 1981-05-11; ETDE: 1976-08-05*

USE quantum electronics

**ELECTRONS**

*UF* electron acceptor  
*UF* electron donor  
*UF* knock-on electrons  
*UF* negatons  
*UF* negatrons  
*UF* valence electrons  
**\*BT1** leptons  
**NT1** cosmic electrons  
**NT1** exoelectrons  
**NT1** prompt electrons  
**NT1** runaway electrons  
**NT1** solar electrons  
**NT1** solvated electrons  
**NT1** tail electrons  
**NT1** trapped electrons  
*RT* beta particles  
*RT* charge carriers  
*RT* cooper pairs  
*RT* delta rays  
*RT* dirac equation  
*RT* electron beams  
*RT* electron density  
*RT* electron drift  
*RT* electron-hole coupling  
*RT* electron-muon-tau universality  
*RT* electron-muon universality  
*RT* electron pairs  
*RT* electron-phonon coupling  
*RT* electron spectroscopy  
*RT* electron temperature  
*RT* muonium  
*RT* nanostructures  
*RT* positronium  
*RT* positrons  
*RT* traps  
*RT* umklapp processes

**ELECTROPHORESIS**

*UF* cataphoresis  
*UF* drag effect  
*UF* electromigration  
*UF* ionophoresis  
**NT1** isotachophoresis  
**NT1** two-dimensional electrophoresis  
*RT* separation processes  
*RT* thermophoresis  
*RT* transfer numbers

**ELECTROPHYSIOLOGY**

*INIS: 1994-04-07; ETDE: 1985-08-22*

**BT1** physiology  
*RT* bioelectricity  
*RT* electric conductivity  
*RT* electric potential



**ELECTROPLATING**

- \*BT1 electrodeposition
- \*BT1 plating
- RT electrodeposited coatings

**ELECTROPOLISHING**

- \*BT1 electrolysis
- \*BT1 polishing
- RT cleaning

**ELECTROPRODUCTION**

- \*BT1 electromagnetic interactions
- \*BT1 particle interactions
- BT1 particle production
- RT electric born model

**ELECTROREFINING**

- \*BT1 electrolysis
- \*BT1 refining
- RT electrometallurgy

**ELECTROSCOPES**

- \*BT1 electric measuring instruments

**ELECTROSLAG CASTING**

- INIS: 2000-04-12; ETDE: 1982-08-24
- \*BT1 casting
- RT electroslag welding

**ELECTROSLAG WELDING**

- \*BT1 welding
- RT arc welding
- RT electroslag casting

**ELECTROSTATIC ACCELERATORS**

- BT1 accelerators
- NT1 cockcroft-walton accelerators
- NT1 dynamitrons
- NT1 pelletron accelerators
- NT2 5u pelletron accelerator
- NT1 tandem electrostatic accelerators
- NT2 antares tandem accelerator
- NT2 crnl mp tandem accelerator
- NT2 jaeri tandem accelerator
- NT2 orsay tandem accelerator
- NT2 vivitron tandem accelerator
- NT1 van de graaff accelerators
- NT2 crnl mp tandem accelerator
- NT2 jaeri tandem accelerator
- NT2 orsay tandem accelerator
- NT2 vivitron tandem accelerator

**ELECTROSTATIC ANALYZERS**

- BT1 beam analyzers
- RT electrostatic lenses

**ELECTROSTATIC CHARGE****ELIMINATORS**

- UF static electricity eliminators
- RT electric charges
- RT electrostatics

**ELECTROSTATIC LENSES**

- BT1 lenses
- RT beam optics
- RT electrostatic analyzers
- RT electrostatic mirrors
- RT electrostatic septa

**ELECTROSTATIC MIRRORS**

- INIS: 1986-03-04; ETDE: 1989-08-16
- BT1 mirrors
- RT beam optics
- RT electrostatic lenses
- RT electrostatics
- RT reflection

**ELECTROSTATIC PRECIPITATORS**

- \*BT1 pollution control equipment
- RT air cleaning
- RT air cleaning systems
- RT air pollution control
- RT air pollution monitors

- RT dust collectors
- RT electrostatics
- RT gaseous wastes
- RT hot gas cleanup
- RT separation processes
- RT stack disposal

**ELECTROSTATIC PROBES**

- BT1 probes

**ELECTROSTATIC SEPARATION**

- 1994-06-27
- BT1 separation processes

**ELECTROSTATIC SEPTA**

- RT beam optics
- RT electrostatic lenses
- RT magnetic analyzers
- RT septum magnets

**ELECTROSTATIC SPECTROMETERS**

- \*BT1 spectrometers

**electrostatic waves**

- USE plasma waves

**ELECTROSTATIC**

- RT capacitors
- RT charge distribution
- RT electric charges
- RT electric sparks
- RT electrostatic charge eliminators
- RT electrostatic mirrors
- RT electrostatic precipitators
- RT xerography

**electrovac equations**

- INIS: 1983-06-30; ETDE: 1983-07-20
- USE einstein-maxwell equations

**electroweak interaction model**

- INIS: 1995-08-10; ETDE: 2002-06-13
- USE weinberg-salam gauge model

**electroweak mixing angle**

- INIS: 2000-04-12; ETDE: 1985-07-23
- USE weinberg angle

**electroweak model**

- INIS: 2000-04-12; ETDE: 1985-03-26
- USE weinberg-salam gauge model

**electrowinning**

- USE electrometallurgy

**element 104**

- (Prior to March 2004 this was a valid descriptor.)
- USE rutherfordium

**element 104 253**

- INIS: 1986-06-10; ETDE: 1986-08-21
- (Prior to March 2004 this was a valid descriptor.)
- USE rutherfordium 253

**element 104 254**

- INIS: 1986-06-10; ETDE: 1986-08-22
- (Prior to March 2004 this was a valid descriptor.)
- USE rutherfordium 254

**element 104 255**

- INIS: 1986-06-10; ETDE: 1986-08-22
- (Prior to March 2004 this was a valid descriptor.)
- USE rutherfordium 255

**element 104 256**

- INIS: 1986-06-10; ETDE: 1986-08-22
- (Prior to March 2004 this was a valid descriptor.)
- USE rutherfordium 256

**element 104 257**

- INIS: 1986-06-10; ETDE: 1986-08-22
- (Prior to March 2004 this was a valid descriptor.)
- USE rutherfordium 257

**element 104 258**

- INIS: 1986-06-10; ETDE: 1986-08-22
- (Prior to March 2004 this was a valid descriptor.)
- USE rutherfordium 258

**element 104 259**

- INIS: 1986-06-10; ETDE: 1986-08-22
- (Prior to March 2004 this was a valid descriptor.)
- USE rutherfordium 259

**element 104 260**

- INIS: 1986-06-10; ETDE: 1986-08-22
- (Prior to March 2004 this was a valid descriptor.)
- USE rutherfordium 260

**element 104 261**

- INIS: 1986-06-10; ETDE: 1986-08-22
- (Prior to March 2004 this was a valid descriptor.)
- USE rutherfordium 261

**element 104 262**

- INIS: 1986-06-10; ETDE: 1986-08-22
- (Prior to March 2004 this was a valid descriptor.)
- USE rutherfordium 262

**element 104 263**

- 2002-08-13
- (Prior to March 2004 this was a valid descriptor.)
- USE rutherfordium 263

**element 104 chlorides**

- (Prior to March 2004 this was a valid descriptor.)
- USE rutherfordium chlorides

**element 104 complexes**

- (Prior to March 2004 this was a valid descriptor.)
- USE rutherfordium complexes

**element 104 compounds**

- (Prior to March 2004 this was a valid descriptor.)
- USE rutherfordium compounds

**element 104 isotopes**

- 1975-09-02
- (Prior to March 2004 this was a valid descriptor.)
- USE rutherfordium isotopes

**element 105**

- (Prior to March 2004 this was a valid descriptor.)
- USE dubnium

**element 105 255**

- INIS: 1986-06-10; ETDE: 1986-08-22
- (Prior to March 2004 this was a valid descriptor.)
- USE dubnium 255

**element 105 256**

2002-01-11

(Prior to March 2004 this was a valid descriptor.)

USE dubnium 256

**element 105 257**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

USE dubnium 257

**element 105 258**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

USE dubnium 258

**element 105 259**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

USE dubnium 259

**element 105 260**

INIS: 1986-06-10; ETDE: 1986-08-22

(Prior to March 2004 this was a valid descriptor.)

USE dubnium 260

**element 105 261**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE dubnium 261

**element 105 262**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE dubnium 262

**element 105 263**

INIS: 1992-01-15; ETDE: 1992-02-14

(Prior to March 2004 this was a valid descriptor.)

USE dubnium 263

**element 105 compounds**

(Prior to March 2004 this was a valid descriptor.)

USE dubnium compounds

**element 105 isotopes**

INIS: 1986-06-10; ETDE: 1986-08-21

(Prior to March 2004 this was a valid descriptor.)

USE dubnium isotopes

**element 106**

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium

**element 106 259**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium 259

**element 106 260**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium 260

**element 106 261**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium 261

**element 106 262**

INIS: 2001-03-15; ETDE: 2001-02-12

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium 262

**element 106 263**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium 263

**element 106 265**

INIS: 1996-06-17; ETDE: 1996-05-31

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium 265

**element 106 266**

INIS: 1996-06-17; ETDE: 1996-05-31

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium 266

**element 106 compounds**

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium compounds

**element 106 isotopes**

INIS: 1996-06-17; ETDE: 1976-04-19

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium isotopes

**element 107**

(Prior to March 2004 this was a valid descriptor.)

USE bohrium

**element 107 261**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE bohrium 261

**element 107 262**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE bohrium 262

**element 107 264**

1995-03-28

(Prior to March 2004 this was a valid descriptor.)

USE bohrium 264

**element 107 compounds**

(Prior to March 2004 this was a valid descriptor.)

USE bohrium compounds

**element 107 isotopes**

INIS: 1995-03-28; ETDE: 1986-08-21

(Prior to March 2004 this was a valid descriptor.)

USE bohrium isotopes

**element 108**

(Prior to March 2004 this was a valid descriptor.)

USE hassium

**element 108 264**

INIS: 1986-10-29; ETDE: 1986-11-20

(Prior to March 2004 this was a valid descriptor.)

USE hassium 264

**element 108 265**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE hassium 265

**element 108 266**

INIS: 2001-03-15; ETDE: 2001-02-12

(Prior to March 2004 this was a valid descriptor.)

USE hassium 266

**element 108 270**

2002-08-13

(Prior to March 2004 this was a valid descriptor.)

USE hassium 270

**element 108 compounds**

2002-08-13

(Prior to March 2004 this was a valid descriptor.)

USE hassium compounds

**element 108 isotopes**

INIS: 1986-06-10; ETDE: 1986-08-21

(Prior to March 2004 this was a valid descriptor.)

USE hassium isotopes

**element 109**

(Prior to March 2004 this was a valid descriptor.)

USE meitnerium

**element 109 266**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE meitnerium 266

**element 109 268**

1995-03-28

(Prior to March 2004 this was a valid descriptor.)

USE meitnerium 268

**element 109 isotopes**

INIS: 1995-03-28; ETDE: 1986-08-21

(Prior to March 2004 this was a valid descriptor.)

USE meitnerium isotopes

**element 110**

(Prior to March 2004 this was a valid descriptor.)

USE darmstadtium

**element 110 269**

1995-03-23

(Prior to March 2004 this was a valid descriptor.)

USE darmstadtium 269

**element 110 270**

INIS: 2001-03-15; ETDE: 2001-02-12

(Prior to March 2004 this was a valid descriptor.)

USE darmstadtium 270

**element 110 compounds**

(Prior to March 2004 this was a valid descriptor.)

USE darmstadtium compounds

**element 110 isotopes**

1995-03-23

(Prior to March 2004 this was a valid descriptor.)

USE darmstadtium isotopes

**element 111**

(Prior to January 2006 this was a valid descriptor.)

USE roentgenium

**element 111 272**

1995-03-28

(Prior to January 2006 this was a valid descriptor.)

USE roentgenium 272

**element 111 compounds**

(Prior to January 2006 this was a valid descriptor.)

USE roentgenium compounds

**element 111 isotopes**

INIS: 1995-03-28; ETDE: 2006-01-09

(Prior to January 2006 this was a valid descriptor.)

USE roentgenium isotopes

**ELEMENT 112**

UF *eka-mercury*

UF *ununbium*

\*BT1 transactinide elements

**ELEMENT 112 277**

1996-05-14

\*BT1 alpha decay radioisotopes

\*BT1 element 112 isotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 microseconds living radioisotopes

**ELEMENT 112 283**

INIS: 1999-06-24; ETDE: 1999-08-24

\*BT1 element 112 isotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 spontaneous fission radioisotopes

**ELEMENT 112 COMPOUNDS**

2002-08-13

\*BT1 transactinide compounds

**ELEMENT 112 ISOTOPES**

1996-05-14

BT1 isotopes

NT1 element 112 277

NT1 element 112 283

**ELEMENT 113**

UF *eka-thallium*

UF *ununtrium*

\*BT1 transactinide elements

**ELEMENT 113 278**

2007-05-25

\*BT1 alpha decay radioisotopes

\*BT1 element 113 isotopes

\*BT1 heavy nuclei

\*BT1 microseconds living radioisotopes

\*BT1 odd-odd nuclei

**ELEMENT 113 283**

2007-05-25

\*BT1 alpha decay radioisotopes

\*BT1 element 113 isotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**ELEMENT 113 284**

2007-05-25

\*BT1 alpha decay radioisotopes

\*BT1 element 113 isotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**ELEMENT 113 COMPOUNDS**

\*BT1 transactinide compounds

**ELEMENT 113 ISOTOPES**

2007-05-25

BT1 isotopes

NT1 element 113 278

NT1 element 113 283

NT1 element 113 284

**ELEMENT 114**

UF *eka-lead*

UF *ununquadium*

\*BT1 transactinide elements

**ELEMENT 114 285**

2007-09-25

\*BT1 alpha decay radioisotopes

\*BT1 element 114 isotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 microseconds living radioisotopes

**ELEMENT 114 286**

2007-09-25

\*BT1 alpha decay radioisotopes

\*BT1 element 114 isotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**ELEMENT 114 287**

2007-09-25

\*BT1 alpha decay radioisotopes

\*BT1 element 114 isotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

**ELEMENT 114 288**

2007-09-25

\*BT1 alpha decay radioisotopes

\*BT1 element 114 isotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

**ELEMENT 114 289**

2007-09-25

\*BT1 alpha decay radioisotopes

\*BT1 element 114 isotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 seconds living radioisotopes

**ELEMENT 114 COMPOUNDS**

\*BT1 transactinide compounds

**ELEMENT 114 ISOTOPES**

2007-09-25

BT1 isotopes

NT1 element 114 285

NT1 element 114 286

NT1 element 114 287

NT1 element 114 288

NT1 element 114 289

**ELEMENT 115**

UF *eka-bismuth*

UF *ununpentium*

\*BT1 transactinide elements

**ELEMENT 115 287**

2007-06-19

\*BT1 alpha decay radioisotopes

\*BT1 element 115 isotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**ELEMENT 115 288**

2007-06-26

\*BT1 alpha decay radioisotopes

\*BT1 element 115 isotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**ELEMENT 115 ISOTOPES**

2007-06-19

BT1 isotopes

NT1 element 115 287

NT1 element 115 288

**ELEMENT 116**

INIS: 1977-03-01; ETDE: 1976-12-15

UF *eka-polonium*

UF *ununhexium*

\*BT1 transactinide elements

**ELEMENT 117**

UF *eka-astatine*

UF *ununseptium*

\*BT1 transactinide elements

**ELEMENT 117 ISOTOPES**

2007-06-19

BT1 isotopes

**ELEMENT 118**

INIS: 1975-10-29; ETDE: 1975-08-19

UF *eka-radon*

UF *ununoctium*

\*BT1 transactinide elements

**ELEMENT 119**

INIS: 1981-11-27; ETDE: 1981-08-04

UF *ununennium*

\*BT1 transactinide elements

**ELEMENT 119 ISOTOPES**

2007-06-19

BT1 isotopes

**ELEMENT 120**

INIS: 1981-11-27; ETDE: 1981-08-04

UF *unbinilium*

\*BT1 transactinide elements

**ELEMENT 126**

UF *unbihexium*

\*BT1 transactinide elements

**ELEMENT 128**

INIS: 1977-09-15; ETDE: 1977-11-10

UF *unbioctium*

\*BT1 transactinide elements

**ELEMENT 134**

INIS: 1977-09-15; ETDE: 1977-11-10

UF *untriquadium*

\*BT1 transactinide elements

**ELEMENT 145**

INIS: 1977-09-15; ETDE: 1977-11-10

UF *unquadpentium*

\*BT1 transactinide elements

**ELEMENT 164**

INIS: 1977-09-15; ETDE: 1977-11-10

UF *unhexquadium*

\*BT1 transactinide elements

**ELEMENT 173**

INIS: 1977-09-15; ETDE: 1977-11-10

UF *unsepttrium*

\*BT1 transactinide elements

**ELEMENT ABUNDANCE**

ETDE: 1978-09-11

Always coordinate with descriptor(s) for element(s) involved.

UF *abundance (element)*

BT1 *abundance*

- RT chemical composition
- RT cosmochemistry
- RT isotope ratio
- RT natural occurrence

**elemental minerals**

INIS: 2000-04-12; ETDE: 1982-05-12  
 Use the descriptor below or a more specific term such as DIAMONDS or GRAPHITE.  
 (Prior to February 1997 this was a valid descriptor.)  
 USE minerals

**ELEMENTARY LENGTH**

1976-08-17  
 BT1 distance  
 \*BT1 length

**ELEMENTARY PARTICLES**

UF *fundamental particles*

- NT1 antiparticles
  - NT2 antibaryons
    - NT3 antihyperons
      - NT4 antilambda particles
      - NT4 antiomega particles
      - NT4 antisigma particles
      - NT4 antixi particles
    - NT3 antineutrons
      - NT4 antineutrons
      - NT4 antiprotons
  - NT2 antikaons
    - NT3 antikaons neutral
  - NT2 antileptons
    - NT3 antineutrinos
      - NT4 electron antineutrinos
      - NT4 muon antineutrinos
    - NT3 muons plus
    - NT3 positrons
      - NT4 cosmic positrons
  - NT2 antimesons
    - NT3 pseudoscalar antimesons
      - NT4 anti-b neutral mesons
      - NT4 anti-d neutral mesons
  - NT2 antiquarks
    - NT3 b antiquarks
    - NT3 c antiquarks
    - NT3 d antiquarks
    - NT3 s antiquarks
    - NT3 t antiquarks
    - NT3 u antiquarks
  - NT1 beauty particles
    - NT2 b quarks
      - NT3 b antiquarks
    - NT2 beauty baryons
      - NT3 lambda b neutral baryons
    - NT2 beauty mesons
      - NT3 b c mesons
      - NT3 b mesons
        - NT4 b minus mesons
        - NT4 b neutral mesons
        - NT5 anti-b neutral mesons
        - NT4 b plus mesons
      - NT3 b s mesons
      - NT3 b\*-5325 mesons
  - NT1 charm particles
    - NT2 c quarks
      - NT3 c antiquarks
    - NT2 charmed baryons
      - NT3 lambda c-2625 baryons
      - NT3 lambda c plus baryons
      - NT3 omega c neutral baryons
      - NT3 sigma c-2455 baryons
      - NT3 xi c neutral baryons
      - NT3 xi c plus baryons
    - NT2 charmed mesons
      - NT3 b c mesons
      - NT3 d mesons
        - NT4 d minus mesons
        - NT4 d neutral mesons
        - NT5 anti-d neutral mesons

- NT4 d plus mesons
- NT3 d s-2536 mesons
- NT3 d s mesons
- NT3 d\*-2010 mesons
- NT3 d\*2-2460 mesons
- NT3 d\*s-2110 mesons
- NT3 d1-2420 mesons
- NT1 hadrons
  - NT2 baryons
    - NT3 antibaryons
      - NT4 antihyperons
        - NT5 antilambda particles
        - NT5 antiomega particles
        - NT5 antisigma particles
        - NT5 antixi particles
      - NT4 antineutrons
        - NT5 antineutrons
        - NT5 antiprotons
    - NT3 beauty baryons
      - NT4 lambda b neutral baryons
    - NT3 charmed baryons
      - NT4 lambda c-2625 baryons
      - NT4 lambda c plus baryons
      - NT4 omega c neutral baryons
      - NT4 sigma c-2455 baryons
      - NT4 xi c neutral baryons
      - NT4 xi c plus baryons
    - NT3 dibaryons
      - NT4 dineutrons
      - NT4 diprotons
      - NT4 lambda-n-2130 dibaryons
      - NT4 nn-2170 dibaryons
      - NT4 nn-2250 dibaryons
    - NT3 hyperons
      - NT4 antihyperons
        - NT5 antilambda particles
        - NT5 antiomega particles
        - NT5 antisigma particles
        - NT5 antixi particles
      - NT4 lambda baryons
        - NT5 lambda-1405 baryons
        - NT5 lambda-1520 baryons
        - NT5 lambda-1600 baryons
        - NT5 lambda-1670 baryons
        - NT5 lambda-1690 baryons
        - NT5 lambda-1800 baryons
        - NT5 lambda-1810 baryons
        - NT5 lambda-1820 baryons
        - NT5 lambda-1830 baryons
        - NT5 lambda-1890 baryons
        - NT5 lambda-2100 baryons
        - NT5 lambda-2110 baryons
        - NT5 lambda particles
          - NT6 antilambda particles
      - NT4 lambda-n-2130 dibaryons
      - NT4 omega baryons
        - NT5 omega-2250 baryons
        - NT5 omega particles
          - NT6 antiomega particles
          - NT6 omega minus particles
      - NT4 sigma baryons
        - NT5 sigma-1385 baryons
        - NT5 sigma-1660 baryons
        - NT5 sigma-1670 baryons
        - NT5 sigma-1750 baryons
        - NT5 sigma-1770 baryons
        - NT5 sigma-1775 baryons
        - NT5 sigma-1915 baryons
        - NT5 sigma-1940 baryons
        - NT5 sigma-2030 baryons
        - NT5 sigma-2455 baryons
        - NT5 sigma particles
          - NT6 antisigma particles
          - NT6 sigma minus particles
          - NT6 sigma neutral particles
          - NT6 sigma plus particles
      - NT4 xi baryons
        - NT5 xi-1530 baryons
        - NT5 xi-1690 baryons

- NT5 xi-1820 baryons
- NT5 xi-1950 baryons
- NT5 xi-2030 baryons
- NT5 xi-2250 baryons
- NT5 xi-2500 baryons
- NT5 xi particles
  - NT6 antixi particles
  - NT6 xi minus particles
  - NT6 xi neutral particles
- NT4 z\*baryons
- NT3 n\*baryons
  - NT4 delta baryons
    - NT5 delta-1232 baryons
    - NT5 delta-1600 baryons
    - NT5 delta-1620 baryons
    - NT5 delta-1700 baryons
    - NT5 delta-1900 baryons
    - NT5 delta-1905 baryons
    - NT5 delta-1910 baryons
    - NT5 delta-1920 baryons
    - NT5 delta-1930 baryons
    - NT5 delta-1950 baryons
    - NT5 delta-2000 baryons
    - NT5 delta-2150 baryons
    - NT5 delta-2200 baryons
    - NT5 delta-2400 baryons
    - NT5 delta-2420 baryons
    - NT5 delta-3000 baryons
  - NT4 n baryons
    - NT5 n-1440 baryons
    - NT5 n-1520 baryons
    - NT5 n-1535 baryons
    - NT5 n-1650 baryons
    - NT5 n-1675 baryons
    - NT5 n-1680 baryons
    - NT5 n-1700 baryons
    - NT5 n-1710 baryons
    - NT5 n-1720 baryons
    - NT5 n-1960 baryons
    - NT5 n-1990 baryons
    - NT5 n-2000 baryons
    - NT5 n-2080 baryons
    - NT5 n-2100 baryons
    - NT5 n-2190 baryons
    - NT5 n-2250 baryons
    - NT5 n-3000 baryons
  - NT3 nucleons
    - NT4 antineutrons
      - NT5 antineutrons
      - NT5 antiprotons
    - NT4 neutrons
      - NT5 antineutrons
      - NT5 beta-delayed neutrons
      - NT5 cold neutrons
        - NT6 ultracold neutrons
      - NT5 cosmic neutrons
      - NT5 epithermal neutrons
      - NT5 fast neutrons
      - NT5 fission neutrons
        - NT6 delayed neutrons
        - NT6 prompt neutrons
      - NT5 intermediate neutrons
      - NT5 photoneutrons
      - NT5 pile neutrons
      - NT5 polyneutrons
        - NT6 dineutrons
        - NT6 tetraneutrons
        - NT6 trineutrons
      - NT5 resonance neutrons
      - NT5 slow neutrons
      - NT5 solar neutrons
      - NT5 thermal neutrons
    - NT4 photonucleons
      - NT5 photoneutrons
      - NT5 photoprotons
    - NT4 protons
      - NT5 antiprotons
      - NT5 cosmic protons
      - NT5 delayed protons

- NT5 diprotons
  - NT5 photoprotons
  - NT5 prompt protons
  - NT5 solar protons
  - NT5 trapped protons
  - NT2 mesons
    - NT3 antimesons
      - NT4 pseudoscalar antimesons
        - NT5 anti-b neutral mesons
        - NT5 anti-d neutral mesons
    - NT3 axial vector mesons
      - NT4 a1-1260 mesons
      - NT4 b1-1235 mesons
      - NT4 chi b1-9890 mesons
      - NT4 chi1-3510 mesons
      - NT4 d s-2536 mesons
      - NT4 d1-2420 mesons
      - NT4 f1-1285 mesons
      - NT4 f1-1420 mesons
      - NT4 f1-1510 mesons
      - NT4 h1-1170 mesons
      - NT4 k1-1270 mesons
      - NT4 k1-1400 mesons
    - NT3 baryonium
    - NT3 beauty mesons
      - NT4 b c mesons
      - NT4 b mesons
        - NT5 b minus mesons
        - NT5 b neutral mesons
        - NT6 anti-b neutral mesons
        - NT5 b plus mesons
      - NT4 b s mesons
      - NT4 b\*-5325 mesons
    - NT3 bottomonium
      - NT4 chi b0-10235 mesons
      - NT4 chi b0-9860 mesons
      - NT4 chi b1-10255 mesons
      - NT4 chi b1-9890 mesons
      - NT4 chi b2-10270 mesons
      - NT4 chi b2-9915 mesons
      - NT4 upsilon-10023 mesons
      - NT4 upsilon-10355 mesons
      - NT4 upsilon-10580 mesons
      - NT4 upsilon-10860 mesons
      - NT4 upsilon-11020 mesons
      - NT4 upsilon-9460 mesons
    - NT3 charmed mesons
      - NT4 b c mesons
      - NT4 d mesons
        - NT5 d minus mesons
        - NT5 d neutral mesons
        - NT6 anti-d neutral mesons
        - NT5 d plus mesons
      - NT4 d s-2536 mesons
      - NT4 d s mesons
      - NT4 d\*-2010 mesons
      - NT4 d\*2-2460 mesons
      - NT4 d\*s-2110 mesons
      - NT4 d1-2420 mesons
    - NT3 charmonium
      - NT4 chi0-3415 mesons
      - NT4 chi1-3510 mesons
      - NT4 chi2-3555 mesons
      - NT4 eta c-2980 mesons
      - NT4 eta c-3590 mesons
      - NT4 j psi-3097 mesons
      - NT4 psi-3685 mesons
      - NT4 psi-3770 mesons
      - NT4 psi-4040 mesons
      - NT4 psi-4160 mesons
      - NT4 psi-4415 mesons
    - NT3 phi mesons
      - NT4 phi-1020 mesons
      - NT4 phi-1680 mesons
      - NT4 phi3-1850 mesons
    - NT3 pseudoscalar mesons
      - NT4 b c mesons
      - NT4 b mesons
        - NT5 b minus mesons
  - NT5 b neutral mesons
    - NT6 anti-b neutral mesons
  - NT5 b plus mesons
  - NT4 b s mesons
  - NT4 b\*-5325 mesons
  - NT4 b0-980 mesons
  - NT4 chi0-3415 mesons
  - NT4 f0-1240 mesons
  - NT4 f0-1300 mesons
  - NT4 f0-1590 mesons
  - NT4 f0-1730 mesons
  - NT4 f0-980 mesons
  - NT4 k\*0-1430 mesons
  - NT3 strange mesons
    - NT4 b s mesons
    - NT4 d s-2536 mesons
    - NT4 d s mesons
    - NT4 d\*s-2110 mesons
    - NT4 k-1460 mesons
    - NT4 k-1830 mesons
    - NT4 k\*-1410 mesons
    - NT4 k\*-1680 mesons
    - NT4 k\*-892 mesons
    - NT4 k\*0-1430 mesons
    - NT4 k\*2-1430 mesons
    - NT4 k\*3-1780 mesons
    - NT4 k\*4-2045 mesons
    - NT4 k1-1270 mesons
    - NT4 k1-1400 mesons
    - NT4 k2-1770 mesons
    - NT4 k2-1820 mesons
    - NT4 kaons
      - NT5 antikaons
      - NT6 antikaons neutral
      - NT5 cosmic kaons
      - NT5 kaons minus
      - NT5 kaons neutral
      - NT6 antikaons neutral
      - NT6 kaons neutral long-lived
      - NT6 kaons neutral short-lived
      - NT5 kaons plus
  - NT3 strangeonium
    - NT4 f2 prime-1525 mesons
  - NT3 tensor mesons
    - NT4 a2-1320 mesons
    - NT4 a4-2040 mesons
- NT4 a6-2450 mesons
- NT4 chi b2-9915 mesons
- NT4 chi2-3555 mesons
- NT4 d\*2-2460 mesons
- NT4 f2-1270 mesons
- NT4 f2-1430 mesons
- NT4 f2-1720 mesons
- NT4 f2-1810 mesons
- NT4 f2-2010 mesons
- NT4 f2-2300 mesons
- NT4 f2-2340 mesons
- NT4 f2 prime-1525 mesons
- NT4 f4-2050 mesons
- NT4 f4-2300 mesons
- NT4 f6-2510 mesons
- NT4 k\*2-1430 mesons
- NT4 k\*3-1780 mesons
- NT4 k\*4-2045 mesons
- NT4 k2-1770 mesons
- NT4 k2-1820 mesons
- NT4 omega3-1670 mesons
- NT4 phi3-1850 mesons
- NT4 pi2-1670 mesons
- NT4 pi2-2100 mesons
- NT4 rho3-1690 mesons
- NT4 rho3-2250 mesons
- NT4 rho5-2350 mesons
- NT3 toponium
- NT3 vector mesons
  - NT4 b\*-5325 mesons
  - NT4 d\*-2010 mesons
  - NT4 j psi-3097 mesons
  - NT4 k\*-1410 mesons
  - NT4 k\*-1680 mesons
  - NT4 k\*-892 mesons
  - NT4 omega-1420 mesons
  - NT4 omega-1600 mesons
  - NT4 omega-782 mesons
  - NT4 phi-1020 mesons
  - NT4 phi-1680 mesons
  - NT4 psi-3685 mesons
  - NT4 psi-3770 mesons
  - NT4 psi-4040 mesons
  - NT4 psi-4160 mesons
  - NT4 psi-4415 mesons
  - NT4 rho-1450 mesons
  - NT4 rho-1700 mesons
  - NT4 rho-2150 mesons
  - NT4 rho-770 mesons
  - NT4 upsilon-10023 mesons
  - NT4 upsilon-10355 mesons
  - NT4 upsilon-10580 mesons
  - NT4 upsilon-10860 mesons
  - NT4 upsilon-11020 mesons
  - NT4 upsilon-9460 mesons
- NT3 x-1700 mesons
- NT3 x-1935 mesons
- NT3 x-2220 mesons
- NT3 x-3075 mesons
- NT2 resonance particles
  - NT3 exotic resonances
- NT1 intermediate bosons
  - NT2 intermediate vector bosons
    - NT3 w minus bosons
    - NT3 w plus bosons
    - NT3 z neutral bosons
- NT1 leading particles
- NT1 leptons
  - NT2 antileptons
    - NT3 antineutrinos
      - NT4 electron antineutrinos
      - NT4 muon antineutrinos
    - NT3 muons plus
    - NT3 positrons
      - NT4 cosmic positrons
  - NT2 electrons
    - NT3 cosmic electrons
    - NT3 exoelectrons
    - NT3 prompt electrons

- NT3 runaway electrons
- NT3 solar electrons
- NT3 solvated electrons
- NT3 tail electrons
- NT3 trapped electrons
- NT2 heavy leptons
  - NT3 heavy neutral muons
  - NT3 tau neutrinos
  - NT3 tau particles
- NT2 muons
  - NT3 cosmic muons
  - NT3 muons minus
  - NT3 muons plus
- NT2 neutrinos
  - NT3 antineutrinos
    - NT4 electron antineutrinos
    - NT4 muon antineutrinos
  - NT3 cosmic neutrinos
  - NT3 electron neutrinos
    - NT4 electron antineutrinos
  - NT3 muon neutrinos
    - NT4 muon antineutrinos
  - NT3 solar neutrinos
  - NT3 tau neutrinos
- NT1 massless particles
  - NT2 gravitons
  - NT2 neutrinos
    - NT3 antineutrinos
      - NT4 electron antineutrinos
      - NT4 muon antineutrinos
    - NT3 cosmic neutrinos
    - NT3 electron neutrinos
      - NT4 electron antineutrinos
    - NT3 muon neutrinos
      - NT4 muon antineutrinos
    - NT3 solar neutrinos
    - NT3 tau neutrinos
- NT2 photons
  - NT3 cosmic photons
- NT1 postulated particles
  - NT2 dyons
  - NT2 goldstone bosons
    - NT3 axions
  - NT2 gravitons
  - NT2 heavy neutral muons
  - NT2 higgs bosons
  - NT2 magnetic monopoles
  - NT2 preons
  - NT2 sparticles
  - NT2 spurions
  - NT2 tachyons
  - NT2 top particles
    - NT3 t quarks
      - NT4 t antiquarks
- NT1 strange particles
  - NT2 hyperons
    - NT3 antihyperons
      - NT4 antilambda particles
      - NT4 antiomega particles
      - NT4 antisigma particles
      - NT4 antixi particles
    - NT3 lambda baryons
      - NT4 lambda-1405 baryons
      - NT4 lambda-1520 baryons
      - NT4 lambda-1600 baryons
      - NT4 lambda-1670 baryons
      - NT4 lambda-1690 baryons
      - NT4 lambda-1800 baryons
      - NT4 lambda-1810 baryons
      - NT4 lambda-1820 baryons
      - NT4 lambda-1830 baryons
      - NT4 lambda-1890 baryons
      - NT4 lambda-2100 baryons
      - NT4 lambda-2110 baryons
      - NT4 lambda particles
        - NT5 antilambda particles
    - NT3 lambda-n-2130 dibaryons
    - NT3 omega baryons
      - NT4 omega-2250 baryons
- NT4 omega particles
  - NT5 antiomega particles
  - NT5 omega minus particles
- NT3 sigma baryons
  - NT4 sigma-1385 baryons
  - NT4 sigma-1660 baryons
  - NT4 sigma-1670 baryons
  - NT4 sigma-1750 baryons
  - NT4 sigma-1770 baryons
  - NT4 sigma-1775 baryons
  - NT4 sigma-1915 baryons
  - NT4 sigma-1940 baryons
  - NT4 sigma-2030 baryons
  - NT4 sigma-2455 baryons
  - NT4 sigma particles
    - NT5 antisigma particles
    - NT5 sigma minus particles
    - NT5 sigma neutral particles
    - NT5 sigma plus particles
- NT3 xi baryons
  - NT4 xi-1530 baryons
  - NT4 xi-1690 baryons
  - NT4 xi-1820 baryons
  - NT4 xi-1950 baryons
  - NT4 xi-2030 baryons
  - NT4 xi-2250 baryons
  - NT4 xi-2500 baryons
  - NT4 xi particles
    - NT5 antixi particles
    - NT5 xi minus particles
    - NT5 xi neutral particles
- NT3 z\*baryons
- NT2 s quarks
  - NT3 s antiquarks
- NT2 spurions
- NT2 strange mesons
  - NT3 b s mesons
  - NT3 d s-2536 mesons
  - NT3 d s mesons
  - NT3 d\*s-2110 mesons
  - NT3 k-1460 mesons
  - NT3 k-1830 mesons
  - NT3 k\*-1410 mesons
  - NT3 k\*-1680 mesons
  - NT3 k\*-892 mesons
  - NT3 k\*0-1430 mesons
  - NT3 k\*2-1430 mesons
  - NT3 k\*3-1780 mesons
  - NT3 k\*4-2045 mesons
  - NT3 k1-1270 mesons
  - NT3 k1-1400 mesons
  - NT3 k2-1770 mesons
  - NT3 k2-1820 mesons
  - NT3 kaons
    - NT4 antikaons
      - NT5 antikaons neutral
    - NT4 cosmic kaons
    - NT4 kaons minus
      - NT5 antikaons neutral
      - NT5 kaons neutral long-lived
      - NT5 kaons neutral short-lived
    - NT4 kaons plus
- NT1 virtual particles
  - RT charged-particle transport theory
  - RT fundamental constants
  - RT schwinger source theory

## ELEMENTS

*For chemical elements only.*

*UF trace elements*

NT1 metals

NT2 actinides

NT3 actinium

NT3 americium

NT3 berkelium

NT3 californium

NT3 curium

NT3 einsteinium

NT3 fermium

NT3 lawrencium

NT3 mendelevium

NT3 neptunium

NT4 neptunium-alpha

NT4 neptunium-gamma

NT3 nobelium

NT3 plutonium

NT4 plutonium-alpha

NT4 plutonium-beta

NT4 plutonium-delta

NT4 plutonium-epsilon

NT4 plutonium-gamma

NT3 protactinium

NT3 thorium

NT4 thorium-alpha

NT4 thorium-beta

NT3 uranium

NT4 depleted uranium

NT4 enriched uranium

NT5 highly enriched uranium

NT5 moderately enriched uranium

NT5 slightly enriched uranium

NT4 natural uranium

NT4 uranium-alpha

NT4 uranium-beta

NT4 uranium-gamma

NT2 alkali metals

NT3 cesium

NT3 francium

NT3 lithium

NT3 potassium

NT3 rubidium

NT3 sodium

NT2 alkaline earth metals

NT3 barium

NT3 beryllium

NT3 calcium

NT3 magnesium

NT3 radium

NT3 strontium

NT2 aluminium

NT2 antimony

NT2 bismuth

NT2 cadmium

NT2 gallium

NT2 germanium

NT2 heavy metals

NT2 indium

NT2 lead

NT2 liquid metals

NT2 mercury

NT2 polonium

NT2 rare earths

NT3 cerium

NT4 cerium-alpha

NT4 cerium-beta

NT4 cerium-gamma

NT3 dysprosium

NT3 erbium

NT3 europium

NT3 gadolinium

NT3 holmium

NT3 lanthanum

NT3 lutetium

NT3 neodymium

NT3 praseodymium

NT3 promethium

NT3 samarium

NT3 terbium

NT3 thulium

NT3 ytterbium

NT2 refractory metals

NT3 hafnium

NT4 hafnium-alpha

NT4 hafnium-beta

NT3 iridium

NT3 molybdenum

NT3 niobium

NT4 niobium-alpha  
 NT4 niobium-beta  
 NT3 osmium  
 NT3 rhenium  
 NT3 rhodium  
 NT3 ruthenium  
 NT3 tantalum  
 NT3 technetium  
 NT3 tungsten  
 NT4 tungsten-alpha  
 NT2 scrap metals  
 NT2 thallium  
 NT2 tin  
 NT2 transition elements  
 NT3 chromium  
 NT3 cobalt  
 NT3 copper  
 NT3 gold  
 NT3 hafnium  
 NT4 hafnium-alpha  
 NT4 hafnium-beta  
 NT3 iron  
 NT4 iron-alpha  
 NT4 iron-delta  
 NT4 iron-gamma  
 NT3 manganese  
 NT4 manganese-alpha  
 NT3 molybdenum  
 NT3 nickel  
 NT3 niobium  
 NT4 niobium-alpha  
 NT4 niobium-beta  
 NT3 platinum metals  
 NT4 iridium  
 NT4 osmium  
 NT4 palladium  
 NT4 platinum  
 NT4 rhodium  
 NT4 ruthenium  
 NT3 rhenium  
 NT3 scandium  
 NT3 silver  
 NT3 tantalum  
 NT3 technetium  
 NT3 titanium  
 NT4 titanium-alpha  
 NT4 titanium-beta  
 NT3 tungsten  
 NT4 tungsten-alpha  
 NT3 vanadium  
 NT3 yttrium  
 NT3 zirconium  
 NT4 zirconium-alpha  
 NT4 zirconium-beta  
 NT4 zirconium-omega  
 NT2 zinc  
 NT1 nonmetals  
 NT2 carbon  
 NT3 activated carbon  
 NT3 carbon black  
 NT3 carbynes  
 NT3 diamonds  
 NT3 fullerenes  
 NT3 graphite  
 NT3 pyrolytic carbon  
 NT2 halogens  
 NT3 astatine  
 NT3 bromine  
 NT3 chlorine  
 NT3 fluorine  
 NT3 iodine  
 NT2 hydrogen  
 NT2 nitrogen  
 NT2 oxygen  
 NT2 phosphorus  
 NT2 rare gases  
 NT3 argon  
 NT3 helium  
 NT3 krypton

NT3 neon  
 NT3 radon  
 NT3 xenon  
 NT2 sulfur  
 NT1 semimetals  
 NT2 arsenic  
 NT2 boron  
 NT2 selenium  
 NT2 silicon  
 NT2 tellurium  
 NT1 transuranium elements  
 NT2 neptunium  
 NT3 neptunium-alpha  
 NT3 neptunium-gamma  
 NT2 plutonium  
 NT3 plutonium-alpha  
 NT3 plutonium-beta  
 NT3 plutonium-delta  
 NT3 plutonium-epsilon  
 NT3 plutonium-gamma  
 NT2 transplutonium elements  
 NT3 americium  
 NT3 berkelium  
 NT3 californium  
 NT3 curium  
 NT3 einsteinium  
 NT3 fermium  
 NT3 lawrencium  
 NT3 mendelevium  
 NT3 nobelium  
 NT3 transactinide elements  
 NT4 bohrium  
 NT4 darmstadtium  
 NT4 dubnium  
 NT4 element 112  
 NT4 element 113  
 NT4 element 114  
 NT4 element 115  
 NT4 element 116  
 NT4 element 117  
 NT4 element 118  
 NT4 element 119  
 NT4 element 120  
 NT4 element 126  
 NT4 element 128  
 NT4 element 134  
 NT4 element 145  
 NT4 element 164  
 NT4 element 173  
 NT4 hassium  
 NT4 meitnerium  
 NT4 roentgenium  
 NT4 rutherfordium  
 NT4 seaborgium  
 RT periodic system

### elevation

INIS: 2000-04-12; ETDE: 1976-10-13  
 USE levels

### ELEVATORS

2006-08-23

UF lifts  
 RT buildings  
 RT occupants

### eliashberg equations

INIS: 1977-07-05; ETDE: 1976-01-07  
 USE gorkov-eliashberg theory

### elisa

INIS: 1991-09-19; ETDE: 2002-06-13  
 Enzyme-Linked Immunosorbent Assay.  
 USE enzyme immunoassay

### elk river reactor

USE err reactor

### ELLIOT LAKE

\*BT1 ontario

RT stanleigh mine

### ELLIOT MODEL

\*BT1 nuclear models  
 RT shell models

### ELLIPSOMETERS

INIS: 1993-05-07; ETDE: 1979-02-23  
 Instruments for determining the ellipticity of polarized light. Used to measure the thickness of very thin transparent films.  
 BT1 measuring instruments  
 BT1 polarimeters

### ELLIPSONOMETRY

INIS: 1993-05-07; ETDE: 1981-03-16  
 BT1 measuring methods

### ELLIPTICAL CONFIGURATION

BT1 configuration

### ELLSWORTHITE

2000-04-12  
 \*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT calcium oxides  
 RT niobium oxides  
 RT uranium oxides

### elm (plasma physics)

INIS: 1989-12-07; ETDE: 1990-01-03  
 USE edge localized modes

### elmax devices

2000-04-12  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE magnetic mirrors

### elmo bumpy square

INIS: 2000-04-12; ETDE: 1986-04-11  
 An ELMO bumpy square consists of four straight magnetic mirror arrays linked by curved high-field corner coils. The bumpy square is a reconfiguration of the ELMO bumpy torus.  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE elmo devices

### ELMO BUMPY TORUS

\*BT1 bumpy tori  
 \*BT1 elmo devices

### ELMO DEVICES

UF elmo bumpy square  
 \*BT1 magnetic mirrors  
 NT1 elmo bumpy torus

### ELONGATION

BT1 deformation  
 RT expansion  
 RT thermal expansion

### elpidite

1996-06-26  
 (Until June 1996 this was a valid descriptor.)  
 USE silicate minerals

### elution (insoluble particles)

USE elutriation

### elution (soluble constituents)

USE leaching

### ELUTRIATION

UF elution (insoluble particles)  
 BT1 separation processes  
 RT dispersions  
 RT dusts  
 RT particle size  
 RT particles  
 RT powders

RT sampling

## EMANATION METHOD

NT1 emanation thermal analysis  
RT materials testing  
RT radiochemistry  
RT rare gases

## EMANATION THERMAL ANALYSIS

BT1 emanation method  
BT1 thermal analysis  
RT rare gases

## EMANOMETERS

UF radon monitors  
\*BT1 radiation detectors

## EMBALSE REACTOR

INIS: 1992-06-30; ETDE: 1992-07-10  
Embalse, Cordoba, Argentina.  
\*BT1 candu type reactors

## EMBANKMENTS

INIS: 1999-03-15; ETDE: 1975-10-01  
RT dams  
RT soils

## EMBARGOES

INIS: 1993-03-24; ETDE: 1978-03-08  
Orders or edicts of a government prohibiting the departure or entry of goods within its domains; orders issued by common carrier or public regulatory agency prohibiting the acceptance of goods.  
RT cartels  
RT foreign policy  
RT international cooperation  
RT supply disruption  
RT trade

## embezzlement

INIS: 2000-04-12; ETDE: 1983-03-23  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE theft

## EMBOLI

RT blood circulation  
RT blood flow  
RT blood vessels  
RT cardiovascular diseases  
RT vascular diseases

## EMBRITTLEMENT

NT1 helium embrittlement  
NT1 hydrogen embrittlement  
RT brittle-ductile transitions  
RT brittleness  
RT ductile-brittle transitions

## EMBRYONIC CELLS

UF amnion cells  
BT1 animal cells  
RT embryos

## embryonic development

INIS: 2000-04-12; ETDE: 1976-12-15  
USE ontogenesis

## EMBRYOS

NT1 zygotes  
RT age groups  
RT amniotic fluid  
RT carcinoembryonic antigen  
RT embryonic cells  
RT fetal membranes  
RT fetuses  
RT ontogenesis  
RT pregnancy  
RT prenatal irradiation  
RT reproduction  
RT uterus

## EMC EFFECT

INIS: 1985-11-19; ETDE: 1985-06-25  
The unexpected variation of the structure functions of nucleons bound in nuclei as compared with the structure functions of nucleons bound in the deuteron.  
UF european muon collaboration effect  
RT deep inelastic scattering  
RT lepton reactions  
RT particle structure  
RT structure functions

## emergencies

USE accidents

## emergency core cooling system

USE eccs

## emergency energy conservation act

INIS: 2000-04-12; ETDE: 1979-12-17  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE emergency plans  
USE energy conservation

## emergency petroleum allocation act

INIS: 2000-04-12; ETDE: 1979-11-23  
(Prior to February 1995, this was a valid ETDE descriptor.)  
SEE emergency plans

## EMERGENCY PLANS

1995-05-10  
(Prior to August 1985 EMERGENCY PROVISIONS was used.)  
UF emergency energy conservation act  
UF emergency provisions  
SF emergency petroleum allocation act  
RT evacuation  
RT external zones  
RT international nuclear event scale  
RT planning  
RT radiation accidents  
RT reactor accidents  
RT safety  
RT us emergency preparedness act

## emergency preparedness act

INIS: 2000-04-12; ETDE: 1983-04-07  
(Prior to February 1992 this was a valid ETDE descriptor.)  
USE us emergency preparedness act

## emergency provisions

INIS: 1985-07-18; ETDE: 1977-08-25  
(Prior to August 1985 this was a valid descriptor.)  
USE emergency plans

## emergency rods

USE scram rods

## emergency showers

USE safety showers

## emergency shutdown

USE scram

## emery operation

INIS: 2000-04-12; ETDE: 1979-11-23  
(Prior to February 1995, this was a valid ETDE descriptor.)  
USE nuclear explosions  
USE underground explosions

## emf

USE electromotive force

## EMINENT DOMAIN

INIS: 2000-04-12; ETDE: 1979-05-25  
The right of a government to take private property for public use by virtue of the

superior dominion of the sovereign power over all lands within its jurisdiction.

RT land use  
RT legal aspects  
RT rights-of-way

## EMISSION

NT1 electron emission  
NT2 photoelectric emission  
NT1 field emission  
NT1 ion emission  
NT1 neutron emission  
NT1 photon emission  
NT2 luminescence  
NT3 bioluminescence  
NT3 cathodoluminescence  
NT3 chemiluminescence  
NT3 electroluminescence  
NT3 fluorescence  
NT4 resonance fluorescence  
NT3 lyoluminescence  
NT3 phosphorescence  
NT3 photoluminescence  
NT3 radioluminescence  
NT4 radiothermoluminescence  
NT3 thermoluminescence  
NT4 radiothermoluminescence  
NT2 superradiance  
NT1 secondary emission  
NT2 photoemission  
NT1 stimulated emission  
NT2 superradiance  
NT1 thermionic emission  
RT angular distribution  
RT emission spectra  
RT stationary pollutant sources

## emission (cooperative spontaneous)

INIS: 1993-11-05; ETDE: 2002-06-13  
USE superradiance

## emission (electron)

2000-04-12  
USE electron emission

## EMISSION COMPUTED TOMOGRAPHY

INIS: 1980-04-02; ETDE: 1980-05-07  
\*BT1 computerized tomography  
NT1 ecat scanning  
NT1 positron computed tomography  
NT1 single photon emission computed tomography  
RT biomedical radiography  
RT gamma cameras  
RT photon emission scanning  
RT positron cameras  
RT radioisotope scanning

## emission computer axial tomography scanning

INIS: 2000-04-12; ETDE: 1979-09-06  
USE ecat scanning

## EMISSION SPECTRA

BT1 spectra  
RT emission

## EMISSION SPECTROSCOPY

UF flame spectrometry  
SF spectrochemistry  
BT1 spectroscopy  
NT1 fluorescence spectroscopy  
RT cathodoluminescence  
RT fourier transform spectrometers  
RT qualitative chemical analysis  
RT quantitative chemical analysis

## emissions (industrial)

2003-08-26  
SEE exhaust gases



SEE industrial wastes  
 SEE liquid wastes  
 SEE plumes  
 SEE solid wastes  
 SEE thermal effluents

**emissions rights trading**

2003-08-26

USE emissions trading

**EMISSIONS TAX**

2003-08-27

*Tax on the amount of pollution produced.*

BT1 taxes  
 RT climatic change  
 RT emissions trading  
 RT environmental policy  
 RT exhaust gases  
 RT greenhouse gases  
 RT industrial wastes  
 RT kyoto protocol  
 RT liquid wastes  
 RT plumes  
 RT pollution  
 RT rio declaration  
 RT solid wastes  
 RT thermal effluents

**EMISSIONS TRADING**

2003-08-26

*Regulatory program that permits generators of pollution the option to exchange emission allowances as a cost-effective solution to achieve environmental goals.*

UF emissions rights trading  
 \*BT1 environmental policy  
 RT allocations  
 RT charges  
 RT climatic change  
 RT emissions tax  
 RT energy policy  
 RT exhaust gases  
 RT greenhouse gases  
 RT industrial wastes  
 RT kyoto protocol  
 RT pollution  
 RT rio declaration

**EMISSIVITY**

UF spectral flame radiance  
 \*BT1 optical properties  
 BT1 surface properties  
 RT blackbody radiation  
 RT radiant heat transfer

**emittance (beam)**

USE beam emittance

**eml**

INIS: 2000-04-12; ETDE: 1984-07-20

SEE environmental measurements laboratory

**emp**

USE electromagnetic pulses

**EMPHYSEMA**

INIS: 1979-01-18; ETDE: 1977-11-29

BT1 pathological changes  
 \*BT1 respiratory system diseases  
 RT lungs

**emplacement**

1984-02-22

*The positioning or locating of an object in a particular place as, e.g., the emplacement of a nuclear explosive device within a borehole.*

USE positioning

**employees**

USE personnel

**EMPLOYMENT**

INIS: 1996-05-14; ETDE: 1977-08-09

*Number of workers employed.*

UF unemployment  
 SF labor  
 RT manpower  
 RT occupations  
 RT us affirmative action program  
 RT work  
 RT working days

**ems (ethyl methanesulfonate)**

ETDE: 2005-01-28

*(Prior to January 2005 EMS was a valid descriptor.)*

USE ethyl methanesulfonate

**EMSLAND REACTOR**

INIS: 1980-02-26; ETDE: 1980-03-29

*Lingen, Niedersachsen, Federal Republic of Germany.*

UF kernkraftwerk emsland  
 \*BT1 pwr type reactors

**EMULSIFICATION**

1992-03-17

RT demulsification  
 RT demulsifiers  
 RT emulsifiers  
 RT emulsions

**EMULSIFIERS**

BT1 additives  
 NT1 detergents  
 NT2 pluronics  
 RT demulsification  
 RT demulsifiers  
 RT emulsification  
 RT emulsions  
 RT soaps

**EMULSIONS**

\*BT1 colloids  
 NT1 microemulsions  
 NT1 photographic emulsions  
 RT demulsification  
 RT demulsifiers  
 RT emulsification  
 RT emulsifiers  
 RT latex

**ENAMELS**

BT1 coatings  
 RT ceramics

**enanthic acid**

USE heptanoic acid

**ENANTIOMORPHS**

INIS: 1994-06-27; ETDE: 1976-02-19

*Pair of chemical compounds or crystals whose molecular structures have a mirror-image relationship to each other.*

UF chiral molecules  
 UF dextro and levo optical isomers  
 UF optical antipodes  
 UF optical isomers  
 BT1 isomers  
 RT stereochemistry

**ENCAPSULATION**

INIS: 1978-11-24; ETDE: 1978-04-27

*May be used for biological systems, radioactive waste processing, etc.*

RT capsules  
 RT potting  
 RT potting materials  
 RT radioactive waste processing

**ENCEPHALITIS**

\*BT1 nervous system diseases  
 RT brain

RT viral diseases

**END EFFECTS**

1982-11-29

UF end losses  
 RT electromagnetic lenses  
 RT magnetic fields  
 RT mhd generators  
 RT wall effects

**end losses**

INIS: 1982-11-29; ETDE: 2002-06-13

USE end effects

**end use sector**

INIS: 2000-04-12; ETDE: 1979-05-03

*See specific entries such as those listed below.*

SEE commercial sector  
 SEE industry  
 SEE residential sector  
 SEE transportation sector

**ENDANGERED SPECIES**

INIS: 1991-10-11; ETDE: 1976-03-22

*A species in danger of extinction in all or a significant part of its range.*

RT animals  
 RT biological extinction  
 RT plants

**endf**

INIS: 1994-07-01; ETDE: 1983-03-23

*Evaluated Nuclear Data File.*

USE nuclear data collections

**ENDOCRINE DISEASES**

BT1 diseases  
 NT1 acromegaly  
 NT1 cushing syndrome  
 NT1 diabetes mellitus  
 NT1 goiter  
 NT1 hyperparathyroidism  
 NT1 hyperthyroidism  
 NT1 hypothyroidism  
 NT1 thyroiditis  
 RT endocrine glands  
 RT hormones  
 RT menstruation disorders  
 RT metabolic diseases  
 RT reproductive disorders  
 RT urogenital system diseases

**ENDOCRINE GLANDS**

\*BT1 glands  
 NT1 adrenal glands  
 NT1 pancreas  
 NT1 parathyroid glands  
 NT1 pituitary gland  
 NT1 thyroid  
 RT endocrine diseases  
 RT gonads  
 RT homeostasis  
 RT hormones  
 RT hypothalamus  
 RT pineal gland  
 RT receptors

**endometrium**

USE uterus

**ENDONUCLEASES**

INIS: 1997-06-17; ETDE: 1984-06-29

*Repair enzymes which remove short segments of DNA containing a damaged nucleotide or a mismatched base pair.*

\*BT1 dna-ase  
 RT contigs  
 RT dna methylases  
 RT dna repair  
 RT gene recombination proteins  
 RT nucleoproteins

RT rflps

## ENDOPLASMIC RETICULUM

1999-04-20

BT1 cell constituents  
NT1 sarcoplasmic reticulum  
RT golgi complexes

## ENDOR

UF *electron nuclear double resonance*  
\*BT1 magnetic resonance  
RT double resonance methods

## ENDORPHINS

INIS: 1982-09-21; ETDE: 1981-04-20

\*BT1 neuroregulators  
\*BT1 polypeptides  
NT1 enkephalins  
RT brain  
RT central nervous system depressants

## ENDOSPERM

BT1 plant tissues  
RT seeds

## endosteum

USE bone tissues

## ENDOTHELINS

2003-11-05

\*BT1 polypeptides  
RT endothelium  
RT vasoconstrictors

## ENDOTHELIUM

\*BT1 animal tissues  
RT endothelins  
RT epithelium

## ENDOTOXINS

\*BT1 toxins  
RT bacteria  
RT infectivity  
RT polysaccharides

## ENDOXAN

UF *cyclophosphamide*  
BT1 alkylating agents  
\*BT1 immunosuppressive drugs  
RT immunosuppression

## ENDURO

2000-04-12

\*BT1 chromium-nickel steels  
\*BT1 heat resisting alloys

## enea

1995-03-28

*European Nuclear Energy Agency.*  
(Until March 1995 this was a valid descriptor.  
Name changed to OECD Nuclear Energy  
Agency in April 1972 and more recent  
material should have been indexed to NEA.)  
USE nea

## enea italy

INIS: 1985-03-15; ETDE: 2002-06-13

*Comitato Nazionale per la Ricerca e lo  
Sviluppo dell'Energia Nucleare e delle  
Energie Alternative.*  
USE italian enea

## ENEL-4 REACTOR

Caorso, Italy.

UF *caorso reactor*  
\*BT1 bwr type reactors

## enel-6 reactor

INIS: 1985-03-15; ETDE: 1985-04-09

USE montalto di castro-1 reactor

## enel-8 reactor

INIS: 1985-03-15; ETDE: 1985-04-09

USE montalto di castro-2 reactor

## energetic electrons

1994-02-28

USE tail electrons

## energetic ions

INIS: 1994-02-28; ETDE: 2002-06-13

USE tail ions

## energetic solar particles

1985-11-18

(Prior to December 1985 this was a valid  
descriptor.)

USE solar particles

## energia nucl e altern, com naz

INIS: 1985-03-15; ETDE: 2002-06-13

*Comitato Nazionale per la Ricerca e lo  
Sviluppo dell'Energia Nucleare e delle  
Energie Alternative.*

USE italian enea

## energieonderzoek centrum nederland

INIS: 1993-11-08; ETDE: 2002-06-13

USE ecn

## ENERGY

1996-01-24

SF *energy content*  
NT1 activation energy  
NT1 binding energy  
NT2 neutron separation energy  
NT2 pairing energy  
NT1 coulomb energy  
NT1 dissociation energy  
NT1 exergy  
NT1 free energy  
NT2 formation free energy  
NT2 surface energy  
NT1 free enthalpy  
NT2 formation free enthalpy  
NT2 oxygen potential  
NT1 geothermal energy  
NT1 gray energy  
NT1 heat  
NT2 absorption heat  
NT2 combustion heat  
NT2 process heat  
NT3 geothermal process heat  
NT3 solar process heat  
NT2 waste heat  
NT1 kinetic energy  
NT2 transverse energy  
NT1 net energy  
NT1 nuclear energy  
NT1 potential energy  
NT2 fission barrier  
NT1 q-value  
NT1 self-energy  
NT1 solar energy  
NT1 stored energy  
NT1 threshold energy  
RT electron temperature  
RT energy dependence  
RT energy-momentum tensor  
RT energy range  
RT energy sources  
RT ion temperature  
RT neutron temperature  
RT nuclear temperature  
RT photon temperature  
RT proton temperature  
RT radioisotope heat sources  
RT thermodynamics  
RT work functions

## ENERGY ABSORPTION

SF *energy deposition*  
\*BT1 absorption  
RT ionization  
RT radiation doses

## ENERGY ACCOUNTING

INIS: 1982-12-03; ETDE: 1977-05-07

*Procedure of preparing an 'energy balance  
sheet' of all energy inputs, outputs, and losses  
of a process or facility; energy forms,  
quantities, costs, and flows through the system  
are considered.*

UF *energy costs*  
SF *energy content*  
BT1 accounting  
BT1 energy analysis  
RT energy audits  
RT energy management  
RT energy quality  
RT gray energy  
RT net energy

## ENERGY ANALYSIS

INIS: 1979-09-18; ETDE: 1977-10-20

*Any analysis or methodology to discover how  
energy is used by economies.*

NT1 energy accounting  
NT1 energy quality  
NT1 net energy  
RT economic analysis  
RT energy models  
RT input-output analysis  
RT systems analysis

## energy applied systems test facility

INIS: 2000-04-12; ETDE: 1981-08-21

SEE savannah river plant

## ENERGY AUDITS

INIS: 1992-03-27; ETDE: 1979-08-07

*The analysis of a facility to determine the  
forms of energy used, the quantities and costs  
of various forms of energy used, the purposes  
for which the energy is used, and the  
identification of energy conservation  
opportunities.*

SF *energy content*  
BT1 audits  
RT energy accounting  
RT energy conservation  
RT low-energy buildings

## ENERGY BALANCE

*For energy economics studies use ENERGY  
ACCOUNTING.*

UF *balance (energy)*  
UF *energy budgets*  
SF *energy content*  
NT1 breakeven  
RT confinement  
RT energy recovery  
RT energy transfer

## ENERGY BALANCE MASS

### SPECTROMETERS

\*BT1 dynamic mass spectrometers

## ENERGY BEAM DEPOSITION

INIS: 1999-02-15; ETDE: 1980-02-11

UF *ebd*  
UF *ebd films*  
UF *energy beam deposition films*  
\*BT1 surface coating

## energy beam deposition films

INIS: 2000-04-12; ETDE: 1980-02-11

(Prior to February 1997 this was a valid ETDE  
descriptor.)

USE energy beam deposition  
USE thin films

**energy budgets**

INIS: 2000-04-12; ETDE: 1980-02-11

*Input-output analysis of ecosystem bioenergetics.*

(Prior to February 1997 this was a valid ETDE descriptor.)

USE ecosystems

USE energy balance

**energy cascade**

INIS: 2000-04-12; ETDE: 1979-01-30

*Conservation concept starting with a high-temperature process (e.g. steel rolling mill, furnace) and with recuperation utilizes heat at progressively lower stages: gas turbine, steam turbine, process steam, and organic turbine.*

(Prior to February 1997 this was a valid ETDE descriptor.)

USE waste heat utilization

**energy cascading**

INIS: 2000-04-12; ETDE: 1979-01-30

(Prior to February 1997 ENERGY CASCADE was used for this concept in ETDE.)

USE waste heat utilization

**energy complexes**

INIS: 2000-04-12; ETDE: 1977-03-04

USE energy parks

**ENERGY CONSERVATION**

1977-10-17

*Conservation of energy resources.*

UF conservation (energy)

UF emergency energy conservation act

RT air infiltration

RT carpooling

RT efficiency

RT energy audits

RT energy conservation and production act

RT energy consumption

RT energy efficiency

RT energy management

RT energy management systems

RT energy recovery

RT low-energy buildings

RT national energy conservation incentives act

RT national energy plans

RT recycling

RT resource conservation

RT resource recovery acts

RT solar fraction

RT thermal insulation

RT total energy systems

RT us energy policy and conservation act

RT us energy tax act

RT us national energy conservation policy act

RT us national energy plan

RT us public utility regulatory policies act

RT vanpooling

RT vernacular architecture

**ENERGY CONSERVATION AND PRODUCTION ACT**

INIS: 2000-04-12; ETDE: 1977-11-28

UF ecpa

BT1 laws

RT energy conservation

RT energy supplies

RT petroleum

**ENERGY CONSUMPTION**

NT1 fuel consumption

RT consumption rates

RT demand

RT demand factors

RT energy conservation

RT energy efficiency

RT energy expenses

RT gas meters

RT life cycle assessment

RT net energy

RT per capita values

RT power

RT power meters

RT total energy systems

RT us energy tax act

**energy content**

2004-05-14

SEE energy

SEE energy accounting

SEE energy audits

SEE energy balance

SEE gray energy

SEE life cycle assessment

**ENERGY CONVERSION**

BT1 conversion

NT1 direct energy conversion

NT2 photovoltaic conversion

NT2 thermionic conversion

NT2 thermoelectric conversion

NT2 thermomagnetic conversion

NT2 thermophotovoltaic conversion

NT1 electrochemical energy conversion

NT1 geothermal energy conversion

NT1 heat production

NT1 solar energy conversion

NT2 ocean thermal energy conversion

NT2 solar thermal conversion

RT energy transfer

RT photovoltaic effect

RT water brakes

RT wave energy converters

RT working fluids

**energy costs**

INIS: 1982-12-03; ETDE: 1977-05-07

USE energy accounting

**ENERGY DEMAND**

1991-10-21

*For general reference to all forms of energy:*

*for electric-power demand use POWER*

*DEMAND.*

BT1 demand

RT demand factors

RT energy efficiency

RT energy shortages

RT energy supplies

RT energy surpluses

RT power demand

RT supply and demand

**ENERGY DENSITY**

INIS: 1980-09-12; ETDE: 1979-04-11

UF density (energy)

RT charge density

RT quantum mechanics

**ENERGY DEPENDENCE**

*For explicit dependence of a certain quantity or phenomenon on the energy.*

RT energy

RT energy range

RT excitation functions

RT spectral response

**energy deposition**

INIS: 1982-11-29; ETDE: 1991-07-05

(Prior to August 00, this was a valid INIS descriptor assigned to 3658 documents.)

SEE energy absorption

SEE energy losses

**energy dissipation**

USE energy losses

**energy distribution**

USE energy spectra

**ENERGY EFFICIENCY**

INIS: 1991-08-19; ETDE: 1977-06-21

BT1 efficiency

RT energy conservation

RT energy consumption

RT energy demand

RT energy efficiency standards

RT energy quality

RT energy substitution equivalent

RT net energy

RT us public utility regulatory policies act

**ENERGY EFFICIENCY STANDARDS**

INIS: 1991-08-14; ETDE: 1980-08-12

UF energy performance standards

BT1 standards

RT energy efficiency

RT standardization

**energy exchange**

USE energy transfer

**ENERGY EXPENSES**

INIS: 1991-12-11; ETDE: 1981-03-16

*Monetary outlays or charges for energy consumed; not for Energy Costs, for which see ENERGY ACCOUNTING.*

RT cost

RT economic elasticity

RT energy consumption

RT prices

**energy extension service**

INIS: 2000-04-12; ETDE: 1977-04-12

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us energy extension service

**ENERGY FACILITIES**

INIS: 1994-10-13; ETDE: 1977-06-21

UF facilities (energy)

NT1 resource recovery facilities

RT distributed structures

RT energy parks

RT ices program

RT maintenance facilities

RT modular structures

RT nuclear facilities

RT rural energy centers

RT storage facilities

RT terminal facilities

RT underground facilities

**ENERGY GAP**

RT band theory

RT superconductivity

**energy information administration**

INIS: 2000-04-12; ETDE: 1979-12-17

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us energy information administration

**energy integrated industrial parks**

INIS: 2000-04-12; ETDE: 1979-09-26

USE energy parks

**ENERGY-LEVEL DENSITY**

UF density (energy-level)

UF level density

RT energy levels

RT energy resolution

RT level widths

**energy-level schemes**

USE energy levels

**ENERGY-LEVEL TRANSITIONS**

UF electromagnetic transitions

UF transitions (energy level)

NT1 coster-kronig transitions

NT1 de-excitation

NT2 radiationless decay

NT1 excitation

NT2 collective excitations

NT2 coulomb excitation

NT2 inner-shell excitation

NT1 forbidden transitions

NT1 isomeric transitions

NT1 multipole transitions

NT2 e0-transitions

NT2 e1-transitions

NT2 e2-transitions

NT2 e3-transitions

NT2 e4-transitions

NT2 m1-transitions

NT2 m2-transitions

NT2 m3-transitions

NT2 m4-transitions

NT1 nuclear cascades

NT2 gamma cascades

NT1 stimulated emission

NT2 superradiance

RT auger effect

RT band theory

RT decay

RT einstein coefficients

RT energy levels

RT franck-condon principle

RT mixing ratio

RT multi-photon processes

RT oscillator strengths

RT selection rules

**ENERGY LEVELS**

UF energy-level schemes

UF level schemes

UF resonance states

UF states (energy)

NT1 d states

NT1 e states

NT1 excited states

NT2 metastable states

NT2 rotational states

NT2 rydberg states

NT2 vibrational states

NT1 f states

NT1 fermi level

NT1 g states

NT1 ground states

NT1 high spin states

NT1 isobaric analogs

NT1 negative energy states

NT1 p states

NT1 s states

NT1 virtual states

NT1 yrast states

RT bound state

RT brillouin theorem

RT eigenstates

RT electronic structure

RT energy-level density

RT energy-level transitions

RT external conversion

RT fine structure

RT internal conversion

RT jahn-teller effect

RT lamb shift

RT lande factor

RT level widths

RT nuclear cascades

RT nuclear structure

RT population inversion

RT quasibound state

RT rydberg correction

RT strangeness analog resonances

RT strength functions

**ENERGY-LOSS SPECTROSCOPY**

INIS: 1999-07-02; ETDE: 1983-03-23

\*BT1 electron spectroscopy

**ENERGY LOSSES**

UF degradation (energy)

UF energy dissipation

UF ionization loss

UF ohmic plasma losses

SF energy deposition

SF heat dissipation

BT1 losses

NT1 ac losses

NT1 heat losses

NT1 power losses

NT1 relaxation losses

RT attenuation

RT bragg curve

RT damping

RT dissipation factor

RT flaring

RT friction

RT hysteresis

RT ionization

RT ionizing radiations

RT landau fluctuations

RT let

RT microdosimetry

RT particle losses

RT radiation effects

RT radiation length

RT radiation quality

RT range

RT shock absorbers

RT slowing-down

RT stopping power

**ENERGY MANAGEMENT**

INIS: 1999-03-02; ETDE: 1977-06-21

BT1 management

RT energy accounting

RT energy conservation

RT energy management systems

RT energy supplies

RT resource management

**ENERGY MANAGEMENT SYSTEMS**

INIS: 1993-02-18; ETDE: 1979-07-18

BT1 control systems

BT1 energy systems

RT buildings

RT computerized control systems

RT energy conservation

RT energy management

RT low-energy buildings

RT space hvac systems

**ENERGY MODELS**

INIS: 1992-03-27; ETDE: 1976-01-23

NT1 national coal model

NT1 pies

NT1 projection series

RT computerized simulation

RT energy analysis

RT mathematical models

**ENERGY-MOMENTUM TENSOR**

INIS: 1983-03-15; ETDE: 1976-07-07

BT1 tensors

RT energy

RT general relativity theory

RT linear momentum

**energy of dissociation**

USE dissociation energy

**energy operators**

USE hamiltonians

**ENERGY PARKS**

INIS: 2000-04-12; ETDE: 1976-01-07

(From September 1979 to March 1997

INDUSTRIAL PARKS was a valid ETDE descriptor.)

UF eip

UF energy complexes

UF energy integrated industrial parks

UF parks (energy)

SF industrial parks

NT1 nuclear parks

RT energy facilities

RT rural energy centers

**energy performance standards**

INIS: 1991-08-14; ETDE: 1980-08-12

USE energy efficiency standards

**ENERGY POLICY**

1999-07-06

Overall policy concerning development, production, use, and conservation of energy and its sources.

SF policy

BT1 government policies

NT1 national energy plans

NT2 us national energy plan

NT1 project independence

RT allocations

RT emissions trading

RT foreign policy

RT international energy agency

RT nuclear power phaseout

RT planning

RT regional cooperation

RT sustainable development

RT synthetic fuels corporation

RT us energy policy and conservation act

RT us national energy conservation

RT policy act

RT us natural gas policy act

RT wends

RT world energy council

**energy policy and conservation act**

INIS: 2000-04-12; ETDE: 1976-09-29

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us energy policy and conservation act

**ENERGY QUALITY**

INIS: 2000-04-12; ETDE: 1978-04-28

Measured by the energy cost of sustaining an energy flow or storage.

BT1 energy analysis

RT energy accounting

RT energy efficiency

RT entropy

**ENERGY RANGE**

NT1 eev range

NT1 ev range

NT2 ev range 01-10

NT2 ev range 10-100

NT2 ev range 100-1000

NT1 gev range

NT2 gev range 01-10

NT2 gev range 10-100

NT2 gev range 100-1000

NT1 kev range

NT2 kev range 01-10

NT2 kev range 10-100

NT2 kev range 100-1000

NT1 mev range

NT2 mev range 01-10

NT2 mev range 10-100

NT2 mev range 100-1000

NT1 milli ev range  
 NT1 pev range  
 NT1 relativistic range  
 NT1 tev range  
 NT2 tev range 01-10  
 NT2 tev range 10-100  
 NT2 tev range 100-1000  
 RT energy  
 RT energy dependence  
 RT group constants

**ENERGY RECOVERY**

INIS: 1985-12-11; ETDE: 1978-04-06

SF recovery  
 NT1 heat recovery  
 RT energy balance  
 RT energy conservation  
 RT heat  
 RT resource recovery facilities  
 RT waste product utilization

**energy research advisory board**

INIS: 2000-04-12; ETDE: 1981-07-18  
 (Prior to September 1994, this was a valid ETDE descriptor.)

USE advisory committees  
 USE research programs

**energy research and development administration**

INIS: 2000-04-12; ETDE: 1975-10-01  
 USE us erda

**ENERGY RESOLUTION**

Full Width at Half-Maximum of energy spectra.

BT1 resolution  
 RT energy-level density  
 RT energy spectra

**energy security act**

INIS: 2000-04-12; ETDE: 1980-07-23  
 (Prior to February 1992 this was a valid ETDE descriptor.)

USE us energy security act

**energy security corporation**

INIS: 2000-04-12; ETDE: 1980-07-23  
 USE synthetic fuels corporation

**ENERGY SHORTAGES**

BT1 shortages  
 RT energy demand  
 RT energy supplies  
 RT energy surpluses  
 RT fuel substitution  
 RT international energy agency

**ENERGY SOURCE DEVELOPMENT**

INIS: 1992-03-12; ETDE: 1977-01-10  
 RT energy sources  
 RT resource assessment  
 RT resource development  
 RT resource management  
 RT resource potential  
 RT risk assessment  
 RT sustainable development  
 RT synthetic fuels corporation

**ENERGY SOURCES**

NT1 fossil fuels  
 NT2 coal  
 NT3 black coal  
 NT4 anthracite  
 NT4 bituminous coal  
 NT3 brown coal  
 NT4 lignite  
 NT3 coal fines  
 NT3 sapropelic coal  
 NT4 boghead coal  
 NT5 torbanite

NT4 cannel coal  
 NT3 subbituminous coal  
 NT2 natural gas  
 NT3 abiogenic gas  
 NT3 liquefied natural gas  
 NT2 oil sands  
 NT2 oil shales  
 NT3 black shales  
 NT2 peat  
 NT2 petroleum  
 NT3 petroleum fractions  
 NT4 petroleum distillates  
 NT5 gas oils  
 NT6 diesel fuels  
 NT6 fuel oils  
 NT7 heating oils  
 NT7 residual fuels  
 NT6 kerosene  
 NT4 petroleum residues  
 NT4 refinery gases  
 NT3 residual petroleum  
 NT3 shale oil  
 NT4 shale oil fractions  
 NT3 sour crudes  
 NT1 fuel gas  
 NT2 high btu gas  
 NT2 intermediate btu gas  
 NT3 carburetted water gas  
 NT3 town gas  
 NT3 water gas  
 NT2 landfill gas  
 NT2 low btu gas  
 NT3 producer gas  
 NT2 natural gas  
 NT3 abiogenic gas  
 NT3 liquefied natural gas  
 NT1 nuclear fuels  
 NT2 alloy nuclear fuels  
 NT3 uranium-molybdenum fuels  
 NT2 denatured fuel  
 NT2 dispersion nuclear fuels  
 NT2 fuel solutions  
 NT2 liquid metal fuels  
 NT2 mixed carbide fuels  
 NT2 mixed nitride fuels  
 NT2 mixed oxide fuels  
 NT2 molten salt fuels  
 NT2 spent fuels  
 NT1 renewable energy sources  
 NT2 biomass  
 NT2 geothermal energy  
 NT2 hydroelectric power  
 NT2 solar energy  
 NT2 tidal power  
 NT2 wave power  
 NT2 wind power  
 RT availability  
 RT energy  
 RT energy source development  
 RT energy substitution equivalent  
 RT energy supplies  
 RT energy surpluses  
 RT interchangeability  
 RT sun  
 RT us national energy plan  
 RT waste heat

**ENERGY SPECTRA**

UF energy distribution  
 BT1 spectra  
 RT energy resolution  
 RT energy yield  
 RT group constants  
 RT rydberg correction  
 RT spectral density  
 RT spectral response  
 RT transverse energy

**ENERGY STORAGE**

1995-01-11

UF annual energy storage  
 BT1 storage  
 NT1 cold storage  
 NT1 compressed air energy storage  
 NT1 flywheel energy storage  
 NT1 heat storage  
 NT2 latent heat storage  
 NT2 seasonal thermal energy storage  
 NT2 sensible heat storage  
 NT2 thermochemical heat storage  
 NT1 magnetic energy storage  
 NT2 superconducting magnetic energy storage  
 NT1 off-peak energy storage  
 NT1 photochemical energy storage  
 NT1 pumped storage  
 RT capacitive energy storage equipment  
 RT capacitors  
 RT dispersed storage and generation  
 RT electric batteries  
 RT energy storage systems  
 RT flywheels  
 RT hydraulic accumulators  
 RT hydrogen storage  
 RT mechanical energy storage equipment  
 RT underground storage  
 RT water reservoirs

**ENERGY STORAGE SYSTEMS**

INIS: 1999-07-06; ETDE: 1976-08-04

BT1 energy systems  
 NT1 electric batteries  
 NT2 lead-acid batteries  
 NT2 metal-gas batteries  
 NT3 aluminium-air batteries  
 NT3 cadmium-air batteries  
 NT3 iron-air batteries  
 NT3 lithium-chlorine batteries  
 NT3 lithium-water-air batteries  
 NT3 nickel-hydrogen batteries  
 NT3 silver-hydrogen batteries  
 NT3 zinc-air batteries  
 NT3 zinc-chlorine batteries  
 NT2 metal-metal batteries  
 NT2 metal-metal oxide batteries  
 NT3 iron-nickel batteries  
 NT3 nickel-cadmium batteries  
 NT3 nickel-zinc batteries  
 NT3 silver-cadmium batteries  
 NT3 silver-zinc batteries  
 NT3 zinc-manganese batteries  
 NT2 metal-nonmetal batteries  
 NT3 lithium-copper chloride batteries  
 NT3 lithium-sulfur batteries  
 NT3 sodium-sulfur batteries  
 NT3 zinc-bromine batteries  
 NT2 primary-secondary hybrid batteries  
 NT2 redox flow batteries  
 NT2 thermal batteries  
 NT1 flywheels  
 NT1 magnetic energy storage equipment  
 NT1 thermal energy storage equipment  
 RT capacitive energy storage equipment  
 RT capacitors  
 RT compressed air energy storage equipment  
 RT energy storage  
 RT heat storage  
 RT mechanical energy storage equipment  
 RT regenerators  
 RT water reservoirs

**ENERGY SUBSTITUTION**

*INIS: 2000-04-12; ETDE: 1980-01-24*  
*Substitution of other factors, e.g., labor, capital, or materials for energy in the economy.*

- RT economic elasticity
- RT energy substitution equivalent
- RT fuel substitution

**ENERGY SUBSTITUTION****EQUIVALENT**

*INIS: 2000-04-12; ETDE: 1978-06-14*  
*The amount of fuel saved by the substitution of one fuel for another when the same energy product is generated by both fuels.*

- UF fuel substitution equivalent
- UF substitution equivalent
- RT energy efficiency
- RT energy sources
- RT energy substitution
- RT fuel substitution
- RT net energy

**ENERGY SUPPLIES**

*1991-10-21*

- UF contracting of energy services
- NT1 fuel supplies
- RT energy conservation and production act
- RT energy demand
- RT energy management
- RT energy shortages
- RT energy sources
- RT energy surpluses
- RT fuel substitution
- RT strategic petroleum reserve
- RT supply and demand
- RT supply disruption
- RT us emergency preparedness act
- RT us national energy plan
- RT us naval petroleum reserves

**ENERGY SURPLUSES**

*INIS: 2000-04-12; ETDE: 1980-08-25*

- RT energy demand
- RT energy shortages
- RT energy sources
- RT energy supplies
- RT fuel substitution

**ENERGY SYSTEMS**

*INIS: 1999-05-26; ETDE: 1993-08-10*

*Use only in generic sense; e.g., comparisons of several energy systems or theoretical studies when system is not denoted specifically.*

- NT1 binary-fluid systems
- NT1 cooling systems
  - NT2 closed-cycle cooling systems
  - NT2 condenser cooling systems
  - NT2 coolant loops
  - NT2 once-through cooling systems
  - NT2 open-cycle cooling systems
  - NT2 reactor cooling systems
    - NT3 direct cycle cooling systems
    - NT3 dual cycle cooling systems
    - NT3 integrated cooling systems
    - NT3 primary coolant circuits
      - NT4 coolant cleanup systems
    - NT3 rcic systems
    - NT3 rhr systems
    - NT3 secondary coolant circuits
    - NT3 shrouds
  - NT2 thermonuclear reactor cooling systems
- NT1 energy management systems
- NT1 energy storage systems
  - NT2 electric batteries
    - NT3 lead-acid batteries
    - NT3 metal-gas batteries

- NT4 aluminium-air batteries
- NT4 cadmium-air batteries
- NT4 iron-air batteries
- NT4 lithium-chlorine batteries
- NT4 lithium-water-air batteries
- NT4 nickel-hydrogen batteries
- NT4 silver-hydrogen batteries
- NT4 zinc-air batteries
- NT4 zinc-chlorine batteries
- NT3 metal-metal batteries
- NT3 metal-metal oxide batteries
  - NT4 iron-nickel batteries
  - NT4 nickel-cadmium batteries
  - NT4 nickel-zinc batteries
  - NT4 silver-cadmium batteries
  - NT4 silver-zinc batteries
  - NT4 zinc-manganese batteries
- NT3 metal-nonmetal batteries
  - NT4 lithium-copper chloride batteries
  - NT4 lithium-sulfur batteries
  - NT4 sodium-sulfur batteries
  - NT4 zinc-bromine batteries
- NT3 primary-secondary hybrid batteries
- NT3 redox flow batteries
- NT3 thermal batteries
  - NT2 flywheels
  - NT2 magnetic energy storage equipment
  - NT2 thermal energy storage equipment
- NT1 geopressed systems
- NT1 heat distribution systems
- NT1 heating systems
  - NT2 geothermal heating systems
  - NT2 heating loops
  - NT2 solar heating systems
    - NT3 passive solar heating systems
      - NT4 bead walls
      - NT4 direct gain systems
      - NT4 drum walls
      - NT4 roof ponds
      - NT4 thermic diode solar panels
      - NT4 trombe walls
      - NT4 water walls
    - NT3 solar-assisted heat pumps
- NT1 hot-dry-rock systems
- NT1 hydrothermal systems
  - NT2 geothermal hot-water systems
  - NT2 vapor-dominated systems
- NT1 ices program
  - NT2 thermal transmission ices
- NT1 integrated energy utility systems
  - NT2 modular integrated utility systems
- NT1 lighting systems
- NT1 natural gas distribution systems
- NT1 power systems
  - NT2 ac systems
    - NT3 ehv ac systems
    - NT3 hvac systems
    - NT3 uhv ac systems
  - NT2 brayton cycle power systems
  - NT2 dc systems
    - NT3 ehv dc systems
    - NT3 hvdc systems
    - NT3 uhv dc systems
  - NT2 interconnected power systems
  - NT2 rankine cycle power systems
  - NT2 solar-assisted power systems
- NT1 space hvac systems
- NT1 steam systems
  - NT2 flashed steam systems
- NT1 total energy systems
- NT1 total flow systems
- RT cogeneration

**energy tax act**

*INIS: 2000-04-12; ETDE: 1980-05-06*  
 (Prior to February 1992 this was a valid ETDE descriptor.)

- USE us energy tax act

**energy technology data exchange**

*INIS: 1993-11-08; ETDE: 1991-02-25*  
 USE etde

**ENERGY TRANSFER**

- UF energy exchange
- UF transfer (energy)
- NT1 heat transfer
  - NT2 convection
    - NT3 forced convection
    - NT3 natural convection
    - NT3 thermosyphon effect
  - NT2 heat gain
  - NT2 heat losses
  - NT2 radiant heat transfer
  - NT2 thermal conduction
- NT1 let
- NT1 radiationless decay
- RT angular momentum transfer
- RT energy balance
- RT energy conversion
- RT energy yield
- RT internal waves
- RT linear momentum transfer
- RT mass transfer

**energy transmission**

*2000-03-27*

- SEE power transmission

**energy transport**

*2000-04-12*

(Prior to December 1991 this was a valid ETDE descriptor.)  
 SEE natural gas distribution systems  
 SEE pipelines  
 SEE power transmission

**ENERGY YIELD**

*1975-11-27*

- RT efficiency
- RT energy spectra
- RT energy transfer
- RT net energy

**enewetak**

*INIS: 1977-09-06; ETDE: 1979-07-24*  
 USE eniwetok

**ENFORCEMENT**

*INIS: 1978-11-24; ETDE: 1976-11-01*

- RT administrative procedures
- RT compliance
- RT implementation
- RT laws
- RT legal aspects
- RT pollution control agencies
- RT pollution regulations
- RT regulations
- RT us superfund
- RT violations

**ENGINEERED SAFETY SYSTEMS**

*1992-07-13*

- NT1 air cleaning systems
- NT1 containment systems
  - NT2 containment spray systems
- NT1 reactor protection systems
  - NT2 eccs
    - NT3 core flooding systems
    - NT3 core spray systems
    - NT3 high pressure coolant injection
    - NT3 low pressure coolant injection
  - NT2 reactor core restraints
- NT1 ventilation barriers

RT safety  
RT safety engineering  
RT safety margins

**ENGINEERING**

NT1 chemical engineering  
NT1 civil engineering  
NT1 electrical engineering  
NT1 environmental engineering  
NT1 human factors engineering  
NT1 mechanical engineering  
NT1 mining engineering  
NT1 nuclear engineering  
NT1 reservoir engineering  
NT1 safety engineering  
RT engineering geology

**ENGINEERING DRAWINGS**

INIS: 1992-03-17; ETDE: 1982-10-20

\*BT1 diagrams  
RT design  
RT specifications

**ENGINEERING GEOLOGY**

INIS: 1992-09-01; ETDE: 1977-03-08

*Geology as applied to engineering practice, especially in mining and civil engineering.*

UF geologic engineering  
BT1 geology  
RT engineering  
RT soil-structure interactions

**engineering personnel**

INIS: 2000-04-12; ETDE: 1982-02-08

(Prior to August 1992 this was a valid ETDE descriptor.)

USE engineers

**engineering test facility (tokamak)**

INIS: 1993-11-08; ETDE: 1979-12-17

USE etf tokamak

**engineering test reactor**

USE etr reactor

**engineering test reactor critical facility**

2000-04-12

USE etrc reactor

**ENGINEERS**

INIS: 1992-08-18; ETDE: 1980-01-15

UF engineering personnel  
SF professional personnel  
BT1 personnel  
RT construction industry

**ENGINES**

1992-01-15

*Machines in which work is done by the conversion of energy into mechanical force and motion.*

NT1 heat engines  
NT2 internal combustion engines  
NT3 diesel engines  
NT3 direct injection engines  
NT3 dual-fuel engines  
NT3 gas turbine engines  
NT3 ramjet engines  
NT3 rotary engines  
NT4 wankel engines  
NT3 spark ignition engines  
NT4 wankel engines  
NT3 stratified charge engines  
NT3 turbofan engines  
NT3 turbojet engines  
NT2 nitinol heat engines  
NT2 rankine cycle engines  
NT2 rocket engines  
NT2 solar heat engines  
NT2 stirling engines

NT1 motors  
NT2 electric motors  
NT3 superconducting motors  
NT2 pneumatic motors  
RT combustion chambers  
RT federal test procedure  
RT fuel injection systems

**england**

USE united kingdom

**ENHANCED RADIATION WEAPONS**

INIS: 2000-04-12; ETDE: 1981-03-16

UF neutron bombs  
\*BT1 nuclear weapons  
RT radiological warfare

**ENHANCED RECOVERY**

INIS: 1991-10-22; ETDE: 1976-02-19

UF secondary recovery  
UF solfrac process  
UF tertiary recovery  
SF eor  
SF recovery  
NT1 microbial eor  
NT1 thermal recovery  
RT acidization  
RT carbon dioxide injection  
RT caustic flooding  
RT directional drilling  
RT displacement fluids  
RT explosive stimulation  
RT fluid injection  
RT fluid injection processes  
RT microemulsion flooding  
RT miscible-phase displacement  
RT sweep efficiency  
RT well stimulation

**enhanced recovery (biological)**

INIS: 1991-10-22; ETDE: 1992-01-09

USE biological recovery

**ENIWETOK**

1996-01-24

UF enewetak  
\*BT1 marshall islands  
RT greenhouse project  
RT hardtack project

**ENKEPHALINS**

INIS: 1978-11-24; ETDE: 1978-07-05

*Naturally occurring (brain and pituitary gland) opiate-like materials composed of a mixture of two pentapeptides.*

\*BT1 endorphins  
RT narcotics

**ENOLS**

\*BT1 alcohols  
RT ketones

**enriched materials (isotopes)**

USE isotope enriched materials

**enriched materials (ores)**

USE ore concentrates

**ENRICHED URANIUM**

\*BT1 isotope enriched materials  
\*BT1 uranium  
NT1 highly enriched uranium  
NT1 moderately enriched uranium  
NT1 slightly enriched uranium  
RT enriched uranium reactors  
RT portsmouth centrifuge enrichment plant

**ENRICHED URANIUM REACTORS**

1998-01-29

*Reactors fuelled primarily with enriched uranium.*

UF in-core thermionic reactor  
UF itr reactor  
SF 710 reactor  
BT1 reactors  
NT1 acpr reactor  
NT1 aerogjet-general nucleonics reactors  
NT1 afsr reactor  
NT1 agr type reactors  
NT2 connah quay-b reactor  
NT2 dungeness-b reactor  
NT2 hartlepool reactor  
NT2 heysham-a reactor  
NT2 heysham-b reactor  
NT2 hinkley point-b reactor  
NT2 hunterston-b reactor  
NT2 torness reactor  
NT2 wagr reactor  
NT1 ai-l-77 reactor  
NT1 akr-1 reactor  
NT1 allr reactor  
NT1 anex reactor  
NT1 anna reactor  
NT1 aps reactor  
NT1 apsara reactor  
NT1 arbus reactor  
NT1 argonaut type reactors  
NT2 aeg-pr-10 reactor  
NT2 arbi reactor  
NT2 argonaut reactor  
NT2 argos reactor  
NT2 athene reactor  
NT2 jason reactor  
NT2 lfr reactor  
NT2 moata reactor  
NT2 nestor reactor  
NT2 queen mary college utr-b reactor  
NT2 ra-1 reactor  
NT2 rb-2 reactor  
NT2 rien-1 reactor  
NT2 srrc-utr-100 reactor  
NT2 stark reactor  
NT2 strasbourg-cronenbourg reactor  
NT2 ufr reactor  
NT2 ulyse reactor  
NT2 urr reactor  
NT2 utr-10-kinki reactor  
NT2 vpi-utr-10 reactor  
NT1 argus reactor  
NT1 armf-1 reactor  
NT1 astra reactor  
NT1 atr reactor  
NT1 atrc reactor  
NT1 avogadro rs-1 reactor  
NT1 avr reactor  
NT1 bawtr reactor  
NT1 beloyarsk-1 reactor  
NT1 beloyarsk-2 reactor  
NT1 bgrr reactor  
NT1 bigr reactor  
NT1 bir reactor  
NT1 bor-60 reactor  
NT1 borax-1 reactor  
NT1 borax-2 reactor  
NT1 borax-3 reactor  
NT1 borax-4 reactor  
NT1 borax-5 reactor  
NT1 br-02 reactor  
NT1 br-2 reactor  
NT1 br-3-vn reactor  
NT1 brr reactor  
NT1 bsr-1 reactor  
NT1 bsr-2 reactor  
NT1 bwr type reactors  
NT2 allens creek-1 reactor  
NT2 allens creek-2 reactor

NT2	bailly-1 reactor	NT2	jpdr reactor	NT2	zimmer-2 reactor
NT2	barsebaeck-1 reactor	NT2	kaiseraugst reactor	NT1	byu 1-77 reactor
NT2	barsebaeck-2 reactor	NT2	kashiwazaki-kariwa-1 reactor	NT1	cabri reactor
NT2	barton-1 reactor	NT2	kashiwazaki-kariwa-2 reactor	NT1	cesnef reactor
NT2	barton-2 reactor	NT2	kashiwazaki-kariwa-3 reactor	NT1	chernobylsk-1 reactor
NT2	barton-3 reactor	NT2	kashiwazaki-kariwa-4 reactor	NT1	chernobylsk-2 reactor
NT2	barton-4 reactor	NT2	kashiwazaki-kariwa-5 reactor	NT1	chernobylsk-3 reactor
NT2	bell reactor	NT2	kashiwazaki-kariwa-6 reactor	NT1	chernobylsk-4 reactor
NT2	big rock point reactor	NT2	kashiwazaki-kariwa-7 reactor	NT1	consort-2 reactor
NT2	black fox-1 reactor	NT2	krummel reactor	NT1	coral-1 reactor
NT2	black fox-2 reactor	NT2	kuosheng-1 reactor	NT1	cp-3m reactor
NT2	bolsa chica-1 reactor	NT2	kuosheng-2 reactor	NT1	cp-5 reactor
NT2	bolsa chica-2 reactor	NT2	la salle county-1 reactor	NT1	cvtr reactor
NT2	bonus reactor	NT2	la salle county-2 reactor	NT1	democritus reactor
NT2	browns ferry-1 reactor	NT2	lacbwr reactor	NT1	dfr reactor
NT2	browns ferry-2 reactor	NT2	laguna verde-1 reactor	NT1	dido reactor
NT2	browns ferry-3 reactor	NT2	laguna verde-2 reactor	NT1	dmt reactor
NT2	brunbuettel reactor	NT2	leibstadt reactor	NT1	dr-1 reactor
NT2	brunswick-1 reactor	NT2	limerick-1 reactor	NT1	dr-2 reactor
NT2	brunswick-2 reactor	NT2	limerick-2 reactor	NT1	dr-3 reactor
NT2	chinshan-1 reactor	NT2	lingen reactor	NT1	dragon reactor
NT2	chinshan-2 reactor	NT2	mendocino-1 reactor	NT1	ebor reactor
NT2	clinton-1 reactor	NT2	mendocino-2 reactor	NT1	egcr reactor
NT2	clinton-2 reactor	NT2	millstone-1 reactor	NT1	el-3 reactor
NT2	cofrentes reactor	NT2	montague-1 reactor	NT1	el-4 reactor
NT2	cooper reactor	NT2	montague-2 reactor	NT1	enrico fermi-1 reactor
NT2	dodewaard reactor	NT2	montalto di castro-1 reactor	NT1	eocr reactor
NT2	douglas point-1 reactor	NT2	montalto di castro-2 reactor	NT1	es-salam reactor
NT2	douglas point-2 reactor	NT2	monticello reactor	NT1	esada-vesr reactor
NT2	dresden-1 reactor	NT2	muehleberg reactor	NT1	essor reactor
NT2	dresden-2 reactor	NT2	nine mile point-1 reactor	NT1	etr reactor
NT2	dresden-3 reactor	NT2	nine mile point-2 reactor	NT1	etrc reactor
NT2	duane arnold-1 reactor	NT2	okg-1 reactor	NT1	etrr-2 reactor
NT2	ebwr reactor	NT2	okg-2 reactor	NT1	evsr reactor
NT2	enel-4 reactor	NT2	okg-3 reactor	NT1	ewg-1 reactor
NT2	enrico fermi-2 reactor	NT2	olkiluoto-1 reactor	NT1	fmr reactor
NT2	err reactor	NT2	olkiluoto-2 reactor	NT1	fmr reactor
NT2	fitzpatrick reactor	NT2	onagawa-1 reactor	NT1	fr-0 reactor
NT2	forsmark-1 reactor	NT2	onagawa-2 reactor	NT1	frf reactor
NT2	forsmark-2 reactor	NT2	onagawa-3 reactor	NT1	frg-1 reactor
NT2	forsmark-3 reactor	NT2	oyster creek-1 reactor	NT1	frg-2 reactor
NT2	fukushima-1 reactor	NT2	pathfinder reactor	NT1	frj-1 reactor
NT2	fukushima-2 reactor	NT2	peach bottom-2 reactor	NT1	frj-2 reactor
NT2	fukushima-3 reactor	NT2	peach bottom-3 reactor	NT1	frm-ii reactor
NT2	fukushima-4 reactor	NT2	perry-1 reactor	NT1	frm reactor
NT2	fukushima-5 reactor	NT2	perry-2 reactor	NT1	fulton-1 reactor
NT2	fukushima-6 reactor	NT2	philippsburg-1 reactor	NT1	fulton-2 reactor
NT2	fukushima-ii-1 reactor	NT2	phipps bend-1 reactor	NT1	ga siwabessy reactor
NT2	fukushima-ii-2 reactor	NT2	phipps bend-2 reactor	NT1	ga standard reactor
NT2	fukushima-ii-3 reactor	NT2	pilgrim-1 reactor	NT1	getr reactor
NT2	fukushima-ii-4 reactor	NT2	quad cities-1 reactor	NT1	gidra reactor
NT2	garigliano reactor	NT2	quad cities-2 reactor	NT1	gtr reactor
NT2	garona reactor	NT2	ringhals-1 reactor	NT1	hanaro reactor
NT2	ge standard reactor	NT2	river bend-1 reactor	NT1	harmonie reactor
NT2	graben-1 reactor	NT2	river bend-2 reactor	NT1	hbwr reactor
NT2	graben-2 reactor	NT2	rwe-bayernwerk reactor	NT1	hector reactor
NT2	grand gulf-1 reactor	NT2	shika-1 reactor	NT1	herald reactor
NT2	grand gulf-2 reactor	NT2	shimane-1 reactor	NT1	hero reactor
NT2	gundremmingen-2 reactor	NT2	shimane-2 reactor	NT1	hfbr reactor
NT2	gundremmingen-3 reactor	NT2	shoreham reactor	NT1	hfetr reactor
NT2	hamaoka-1 reactor	NT2	skagit-1 reactor	NT1	hfir reactor
NT2	hamaoka-2 reactor	NT2	skagit-2 reactor	NT1	hfr reactor
NT2	hamaoka-3 reactor	NT2	sl-1 reactor	NT1	hifar reactor
NT2	hamaoka-4 reactor	NT2	susquehanna-1 reactor	NT1	hnpf reactor
NT2	hamaoka-5 reactor	NT2	susquehanna-2 reactor	NT1	hor reactor
NT2	hartsville-1 reactor	NT2	tarapur-1 reactor	NT1	horace reactor
NT2	hartsville-2 reactor	NT2	tarapur-2 reactor	NT1	hpr reactor
NT2	hartsville-3 reactor	NT2	tokai-2 reactor	NT1	hre-2 reactor
NT2	hartsville-4 reactor	NT2	tsuruga reactor	NT1	htl reactor
NT2	hatch-1 reactor	NT2	tullnerfeld reactor	NT1	ht-10 reactor
NT2	hatch-2 reactor	NT2	vak reactor	NT1	htr reactor
NT2	hdr reactor	NT2	vbwr reactor	NT1	httr reactor
NT2	hope creek-1 reactor	NT2	vermont yankee reactor	NT1	hwctr reactor
NT3	newbold island-1 reactor	NT2	verplanck-1 reactor	NT1	ian-r1 reactor
NT2	hope creek-2 reactor	NT2	verplanck-2 reactor	NT1	iear-1 reactor
NT3	newbold island-2 reactor	NT2	vk-50 reactor	NT1	ignalina-1 reactor
NT2	humboldt bay reactor	NT2	wnp-2 reactor	NT1	ignalina-2 reactor
NT2	isar reactor	NT2	wuergassen reactor	NT1	igr reactor
NT2	jpdr-2 reactor	NT2	zimmer-1 reactor	NT1	irl reactor



NT1	irr-1 reactor	NT1	pbr reactor	NT2	cherokee-1 reactor
NT1	irt-2000 djakarta reactor	NT1	pctr reactor	NT2	cherokee-2 reactor
NT1	irt-2000 moscow reactor	NT1	peach bottom-1 reactor	NT2	cherokee-3 reactor
NT1	irt-c reactor	NT1	pegase reactor	NT2	chinon-b1 reactor
NT1	irt-f reactor	NT1	peggy reactor	NT2	civaux-1 reactor
NT1	irt reactor	NT1	pelinduna reactor	NT2	civaux-2 reactor
NT1	irt-sofia reactor	NT1	perryman-1 reactor	NT2	comanche peak-1 reactor
NT1	isis reactor	NT1	perryman-2 reactor	NT2	comanche peak-2 reactor
NT1	ispra-1 reactor	NT1	phebus reactor	NT2	connecticut yankee reactor
NT1	ivv-2m reactor	NT1	phenix reactor	NT2	cook-1 reactor
NT1	janus reactor	NT1	pik physical model reactor	NT2	cook-2 reactor
NT1	jeep-2 reactor	NT1	pik reactor	NT2	cruas-2 reactor
NT1	jen-1 reactor	NT1	pluto reactor	NT2	cruas-3 reactor
NT1	jen reactor	NT1	pnpf reactor	NT2	cruas-4 reactor
NT1	jmtr reactor	NT1	prnc-1-77 reactor	NT2	crystal river-3 reactor
NT1	jrr-1 reactor	NT1	proteus reactor	NT2	crystal river-4 reactor
NT1	jrr-2 reactor	NT1	prr-1 reactor	NT2	dampierre-1 reactor
NT1	jrr-3m reactor	NT1	prr reactor	NT2	dampierre-2 reactor
NT1	jrr-4 reactor	NT1	ptr reactor	NT2	dampierre-3 reactor
NT1	jules horowitz reactor	NT1	pulstar-buffalo reactor	NT2	dampierre-4 reactor
NT1	knk-2 reactor	NT1	pur-1 reactor	NT2	davis besse-1 reactor
NT1	knk reactor	NT1	pwr type reactors	NT2	davis besse-2 reactor
NT1	kuca reactor	NT2	aguirre reactor	NT2	davis besse-3 reactor
NT1	kuhfr reactor	NT2	almaz-1 reactor	NT2	daya bay-1 reactor
NT1	kur reactor	NT2	almaz-2 reactor	NT2	daya bay-2 reactor
NT1	kursk-1 reactor	NT2	angra-1 reactor	NT2	diablo canyon-1 reactor
NT1	kursk-2 reactor	NT2	angra-2 reactor	NT2	diablo canyon-2 reactor
NT1	kursk-3 reactor	NT2	angra-3 reactor	NT2	doel-1 reactor
NT1	kursk-4 reactor	NT2	ardennes b-1 reactor	NT2	doel-2 reactor
NT1	leningrad-1 reactor	NT2	ardennes b-2 reactor	NT2	doel-3 reactor
NT1	leningrad-2 reactor	NT2	ardennes reactor	NT2	doel-4 reactor
NT1	leningrad-3 reactor	NT2	arkansas-1 reactor	NT2	efdr-50 reactor
NT1	leningrad-4 reactor	NT2	arkansas-2 reactor	NT2	emsland reactor
NT1	lido reactor	NT2	asco-1 reactor	NT2	erie-1 reactor
NT1	litr reactor	NT2	asco-2 reactor	NT2	erie-2 reactor
NT1	lpr reactor	NT2	atlantic-1 reactor	NT2	farley-1 reactor
NT1	lptr reactor	NT2	atlantic-2 reactor	NT2	farley-2 reactor
NT1	lucens reactor	NT2	basf-1 reactor	NT2	fessenheim-1 reactor
NT1	maple reactor	NT2	basf-2 reactor	NT2	flamanville-1 reactor
NT1	maple type reactors	NT2	beaver valley-1 reactor	NT2	flamanville-2 reactor
NT1	maria reactor	NT2	beaver valley-2 reactor	NT2	forked river-1 reactor
NT1	marviken reactor	NT2	bellefonte-1 reactor	NT2	genkai-1 reactor
NT1	maryla reactor	NT2	bellefonte-2 reactor	NT2	genkai-2 reactor
NT1	masurca reactor	NT2	belleville sur loire-1 reactor	NT2	genkai-3 reactor
NT1	melusine-1 reactor	NT2	belleville sur loire-2 reactor	NT2	genkai-4 reactor
NT1	merlin reactor	NT2	beznau-1 reactor	NT2	ginna-1 reactor
NT1	minerve reactor	NT2	beznau-2 reactor	NT2	goesgen reactor
NT1	mitr reactor	NT2	biblis-1 reactor	NT2	golfech-1 reactor
NT1	ml-1 reactor	NT2	biblis-2 reactor	NT2	golfech-2 reactor
NT1	mnr reactor	NT2	biblis-3 reactor	NT2	grafenrheinfeld reactor
NT1	mnsr type reactors	NT2	biblis-4 reactor	NT2	gravelines-1 reactor
NT2	gharr-1 reactor	NT2	blayais-1 reactor	NT2	gravelines-2 reactor
NT2	mnsr-ciae reactor	NT2	blue hills-1 reactor	NT2	gravelines-3 reactor
NT2	mnsr-sd reactor	NT2	blue hills-2 reactor	NT2	gravelines-4 reactor
NT2	mnsr-sh reactor	NT2	borsele reactor	NT2	gravelines-5 reactor
NT2	mnsr-sz reactor	NT2	br-3 reactor	NT2	gravelines-6 reactor
NT2	nirr-1 reactor	NT2	braidwood-1 reactor	NT2	greene county reactor
NT2	parr-2 reactor	NT2	braidwood-2 reactor	NT2	greenwood-2 reactor
NT2	srr-1 reactor	NT2	brokdorf reactor	NT2	greenwood-3 reactor
NT1	mrr reactor	NT2	bugey-2 reactor	NT2	grohnde reactor
NT1	msre reactor	NT2	bugey-3 reactor	NT2	hamm-uentrop reactor
NT1	mtr reactor	NT2	bugey-4 reactor	NT2	harris-1 reactor
NT1	murr reactor	NT2	bugey-5 reactor	NT2	harris-2 reactor
NT1	n-reactor	NT2	bw standard reactor	NT2	harris-3 reactor
NT1	ncscr-1 reactor	NT2	byron-1 reactor	NT2	harris-4 reactor
NT1	nevada university reactor	NT2	byron-2 reactor	NT2	haven-1 reactor
NT1	nh-5 reactor	NT2	calhoun-1 reactor	NT3	koshkonong-1 reactor
NT1	niederachbach reactor	NT2	calhoun-2 reactor	NT2	haven-2 reactor
NT1	nsrr reactor	NT2	callaway-1 reactor	NT3	koshkonong-2 reactor
NT1	ntr reactor	NT2	callaway-2 reactor	NT2	ikata-2 reactor
NT1	nuclear furnace reactor	NT2	calvert cliffs-1 reactor	NT2	ikata-3 reactor
NT1	nur reactor	NT2	calvert cliffs-2 reactor	NT2	ikata reactor
NT1	oldbury-b reactor	NT2	catawba-1 reactor	NT2	indian point-1 reactor
NT1	omre reactor	NT2	catawba-2 reactor	NT2	indian point-2 reactor
NT1	opal reactor	NT2	cattenom-1 reactor	NT2	indian point-3 reactor
NT1	orr reactor	NT2	cattenom-2 reactor	NT2	iran-1 reactor
NT1	osiris reactor	NT2	cattenom-3 reactor	NT2	iran-2 reactor
NT1	owr reactor	NT2	cattenom-4 reactor	NT2	isar-2 reactor
NT1	parr-1 reactor	NT2	ce standard reactor	NT2	jamesport-1 reactor

NT2	jamesport-2 reactor	NT2	pm-2a reactor	NT2	ulchin-3 reactor
NT2	kewaunee reactor	NT2	pm-3a reactor	NT2	ulchin-4 reactor
NT2	koeberg-1 reactor	NT2	pnp-1 reactor	NT2	unterweser reactor
NT2	koeberg-2 reactor	NT2	point beach-1 reactor	NT2	vahnum-1 reactor
NT2	kori-1 reactor	NT2	point beach-2 reactor	NT2	vahnum-2 reactor
NT2	kori-2 reactor	NT2	prairie island-1 reactor	NT2	vandellos-2 reactor
NT2	kori-3 reactor	NT2	prairie island-2 reactor	NT2	vogtle-1 reactor
NT2	kori-4 reactor	NT2	qinshan-1 reactor	NT2	vogtle-2 reactor
NT2	krsko reactor	NT2	qinshan-2-1 reactor	NT2	vogtle-3 reactor
NT2	lemoniz-1 reactor	NT2	qinshan-2-2 reactor	NT2	vogtle-4 reactor
NT2	lemoniz-2 reactor	NT2	quanicassee-1 reactor	NT2	waterford-3 reactor
NT2	lenin reactor	NT2	quanicassee-2 reactor	NT2	waterford-4 reactor
NT2	leonid brezhnev reactor	NT2	rancho seco-1 reactor	NT2	watts bar-1 reactor
NT2	lingao-1 reactor	NT2	remerschen reactor	NT2	watts bar-2 reactor
NT2	lingao-2 reactor	NT2	rheinsberg akw1 reactor	NT2	westinghouse standard reactor
NT2	loft reactor	NT2	ringhals-2 reactor	NT2	wnp-1 reactor
NT2	lucie-1 reactor	NT2	ringhals-3 reactor	NT2	wnp-3 reactor
NT2	lucie-2 reactor	NT2	ringhals-4 reactor	NT2	wnp-4 reactor
NT2	maanshan-1 reactor	NT2	robinson-2 reactor	NT2	wnp-5 reactor
NT2	maine yankee reactor	NT2	rooppur reactor	NT2	wolf creek-1 reactor
NT2	malibu-1 reactor	NT2	rowe yankee reactor	NT2	wup-3 reactor
NT2	marble hill-1 reactor	NT2	s1c prototype reactor	NT2	wup-4 reactor
NT2	marble hill-2 reactor	NT2	saint alban-1 reactor	NT2	wup-5 reactor
NT2	mc guire-1 reactor	NT2	saint alban-2 reactor	NT2	wup-6 reactor
NT2	mc guire-2 reactor	NT2	saint laurent-b1 reactor	NT2	wwer type reactors
NT2	mh-1a reactor	NT2	salem-1 reactor	NT3	armenian-1 reactor
NT2	midland-1 reactor	NT2	salem-2 reactor	NT3	armenian-2 reactor
NT2	midland-2 reactor	NT2	san onofre-1 reactor	NT3	balakovo-1 reactor
NT2	mihama-1 reactor	NT2	san onofre-2 reactor	NT3	balakovo-2 reactor
NT2	mihama-2 reactor	NT2	san onofre-3 reactor	NT3	balakovo-3 reactor
NT2	mihama-3 reactor	NT2	savannah reactor	NT3	balakovo-4 reactor
NT2	millstone-2 reactor	NT2	saxton reactor	NT3	blahutovice-1 reactor
NT2	millstone-3 reactor	NT2	seabrook-1 reactor	NT3	bohunice v-1 reactor
NT2	muelheim-kaerlich reactor	NT2	seabrook-2 reactor	NT3	bohunice v-2 reactor
NT2	mutsu reactor	NT2	selni reactor	NT3	dukovany-1 reactor
NT2	neckar-1 reactor	NT2	sendai-1 reactor	NT3	dukovany-2 reactor
NT2	neckar-2 reactor	NT2	sendai-2 reactor	NT3	dukovany-3 reactor
NT2	nep-1 reactor	NT2	sequoyah-1 reactor	NT3	dukovany-4 reactor
NT2	nep-2 reactor	NT2	sequoyah-2 reactor	NT3	greifswald-1 reactor
NT2	neupotz-1 reactor	NT2	shippingport reactor	NT3	greifswald-2 reactor
NT2	neupotz-2 reactor	NT2	sizewell-b reactor	NT3	greifswald-3 reactor
NT2	nogent sur seine-1 reactor	NT2	sm-1 reactor	NT3	greifswald-4 reactor
NT2	nogent sur seine-2 reactor	NT2	sm-1a reactor	NT3	greifswald-5 reactor
NT2	north anna-1 reactor	NT2	south texas project-1 reactor	NT3	greifswald-6 reactor
NT2	north anna-2 reactor	NT2	south texas project-2 reactor	NT3	juragua-1 reactor
NT2	north anna-3 reactor	NT2	stade reactor	NT3	kalinin-1 reactor
NT2	north anna-4 reactor	NT2	sterling-1 reactor	NT3	kalinin-3 reactor
NT2	north coast-1 reactor	NT2	sterling-2 reactor	NT3	kecerovce-1 reactor
NT2	obrigheim reactor	NT2	summer-1 reactor	NT3	khmelnitskij-1 reactor
NT2	oconee-1 reactor	NT2	sundesert-1 reactor	NT3	kola-1 reactor
NT2	oconee-2 reactor	NT2	sundesert-2 reactor	NT3	kola-2 reactor
NT2	oconee-3 reactor	NT2	surry-1 reactor	NT3	kola-3 reactor
NT2	oi-1 reactor	NT2	surry-2 reactor	NT3	kola-4 reactor
NT2	oi-2 reactor	NT2	surry-3 reactor	NT3	kozloduy-1 reactor
NT2	oi-3 reactor	NT2	surry-4 reactor	NT3	kozloduy-2 reactor
NT2	oi-4 reactor	NT2	takahama-1 reactor	NT3	kozloduy-3 reactor
NT2	oktembryan-2 reactor	NT2	takahama-2 reactor	NT3	kozloduy-4 reactor
NT2	olkiluoto-3 reactor	NT2	takahama-3 reactor	NT3	kozloduy-5 reactor
NT2	otto hahn reactor	NT2	takahama-4 reactor	NT3	kozloduy-6 reactor
NT2	palisades-1 reactor	NT2	three mile island-1 reactor	NT3	kudankulam-1 reactor
NT2	palo verde-1 reactor	NT2	three mile island-2 reactor	NT3	kudankulam-2 reactor
NT2	palo verde-2 reactor	NT2	tihange-2 reactor	NT3	loviisa-1 reactor
NT2	palo verde-3 reactor	NT2	tihange-3 reactor	NT3	loviisa-2 reactor
NT2	palo verde-4 reactor	NT2	tihange reactor	NT3	mochovce-1 reactor
NT2	palo verde-5 reactor	NT2	tomari-1 reactor	NT3	mochovce-2 reactor
NT2	paluel-1 reactor	NT2	tomari-2 reactor	NT3	novovoronezh-1 reactor
NT2	paluel-2 reactor	NT2	tricastin-1 reactor	NT3	novovoronezh-2 reactor
NT2	paluel-3 reactor	NT2	tricastin-4 reactor	NT3	novovoronezh-3 reactor
NT2	paluel-4 reactor	NT2	trillo-1 reactor	NT3	novovoronezh-4 reactor
NT2	pat reactor	NT2	trojan reactor	NT3	novovoronezh-5 reactor
NT2	pebble springs-1 reactor	NT2	tsuruga-2 reactor	NT3	paks-1 reactor
NT2	pebble springs-2 reactor	NT2	turkey point-3 reactor	NT3	paks-2 reactor
NT2	penly-1 reactor	NT2	turkey point-4 reactor	NT3	paks-3 reactor
NT2	perkins-1 reactor	NT2	tva-1 reactor	NT3	paks-4 reactor
NT2	perkins-2 reactor	NT2	tva-2 reactor	NT3	rovno-1 reactor
NT2	perkins-3 reactor	NT2	tyrone-1 reactor	NT3	rovno-2 reactor
NT2	philippsburg-2 reactor	NT2	tyrone-2 reactor	NT3	rovno-3 reactor
NT2	pilgrim-2 reactor	NT2	ulchin-1 reactor	NT3	rovno-4 reactor
NT2	pilgrim-3 reactor	NT2	ulchin-2 reactor	NT3	rovno-5 reactor

NT3	south ukrainian-1 reactor	NT1	stacy reactor	NT1	venus reactor
NT3	south ukrainian-2 reactor	NT1	stek reactor	NT1	vg-400 reactor
NT3	south ukrainian-3 reactor	NT1	stir reactor	NT1	vgr-50 reactor
NT3	stendal-1 reactor	NT1	summit-1 reactor	NT1	vhtr reactor
NT3	tatarian reactor	NT1	summit-2 reactor	NT1	vidal-1 reactor
NT3	temelin-1 reactor	NT1	super phenix reactor	NT1	vidal-2 reactor
NT3	temelin-2 reactor	NT1	supo reactor	NT1	viper reactor
NT3	tianwan-1 reactor	NT1	sur-100 series reactor	NT1	vr-1 reactor
NT3	zaporozhe-1 reactor	NT1	tca reactor	NT1	vrain reactor
NT3	zaporozhe-2 reactor	NT1	thetis reactor	NT1	wntn reactor
NT3	zaporozhe-3 reactor	NT1	thor reactor	NT1	wpir reactor
NT3	zaporozhe-4 reactor	NT1	thtr-300 reactor	NT1	wr-1 reactor
NT3	zaporozhe-5 reactor	NT1	tibr reactor	NT1	wrrr reactor
NT3	zaporozhe-6 reactor	NT1	toshiba reactor	NT1	wtr reactor
NT2	wyhl-1 reactor	NT1	tr-1 reactor	NT1	wwr type reactors
NT2	wyhl-2 reactor	NT1	tr-2 reactor	NT2	budapest training reactor
NT2	yellow creek-1 reactor	NT1	tracy reactor	NT2	irt-1 libya reactor
NT2	yellow creek-2 reactor	NT1	treat reactor	NT2	irt-baghdad reactor
NT2	yonggwang-1 reactor	NT1	triga type reactors	NT2	lvr-15 reactor
NT2	yonggwang-2 reactor	NT2	afri reactor	NT2	wwr-2 reactor
NT2	yonggwang-3 reactor	NT2	atpr reactor	NT2	wwr-k-almaty reactor
NT2	yonggwang-4 reactor	NT2	colorado triga-mk-3 reactor	NT2	wwr-m-kiev reactor
NT2	zion-1 reactor	NT2	cornell triga-mk-2 reactor	NT2	wwr-m-leningrad reactor
NT2	zion-2 reactor	NT2	dow triga-mk-1 reactor	NT2	wwr-s-bucharest reactor
NT2	zorita-1 reactor	NT2	fir-1 reactor	NT2	wwr-s-budapest reactor
NT1	r-2 reactor	NT2	frf-2 reactor	NT2	wwr-s-cairo reactor
NT1	r-a reactor	NT2	frn reactor	NT2	wwr-s-moscow reactor
NT1	r2-0 reactor	NT2	gulf triga-mk-3 reactor	NT2	wwr-s-prague reactor
NT1	ra-5 reactor	NT2	kartini-ppny reactor	NT2	wwr-s-tashkent reactor
NT1	ra-6 reactor	NT2	lopra reactor	NT2	wwr-sm rossendorf reactor
NT1	ra-8 reactor	NT2	nscr reactor	NT2	wwr-z reactor
NT1	rana reactor	NT2	ostr reactor	NT1	xma-1 reactor
NT1	rapso die reactor	NT2	prpr reactor	NT1	zlf reactor
NT1	rb-1 reactor	NT2	pstr reactor	NT1	zpr reactor
NT1	rg-1m reactor	NT2	rtp reactor	RT	beloyarsk-3 reactor
NT1	ritmo reactor	NT2	trico reactor	RT	bn-350 reactor
NT1	rospo reactor	NT2	triga-1-arizona reactor	RT	cesar reactor
NT1	rpt reactor	NT2	triga-1-california reactor	RT	clinch river breeder reactor
NT1	rts-1 reactor	NT2	triga-1-hanford reactor	RT	ebr-2 reactor
NT1	rv-1 reactor	NT2	triga-1-hanover reactor	RT	enriched uranium
NT1	safari-1 reactor	NT2	triga-1-heidelberg reactor	RT	eole reactor
NT1	saphir reactor	NT2	triga-1-michigan reactor	RT	iea-zpr reactor
NT1	sbr-1 reactor	NT2	triga-2-bandung reactor	RT	lwgr type reactors
NT1	schmehausen-2 reactor	NT2	triga-2-bangladesh reactor	RT	nora reactor
NT1	ser reactor	NT2	triga-2-dalat reactor	RT	pdp reactor
NT1	shgwr reactor	NT2	triga-2-illinois reactor	RT	pfr reactor
NT1	shca reactor	NT2	triga-2-kansas reactor	RT	sneak reactor
NT1	silene reactor	NT2	triga-2-ljubljana reactor	RT	vera reactor
NT1	siloe reactor	NT2	triga-2-mainz reactor	RT	zebra reactor
NT1	siloe reactor	NT2	triga-2-musashi reactor	RT	zenith reactor
NT1	slowpoke type reactors	NT2	triga-2-pavia reactor		
NT2	slowpoke-alberta reactor	NT2	triga-2-pitesti reactor		
NT2	slowpoke-dalhousie reactor	NT2	triga-2 reactor		
NT2	slowpoke-montreal reactor	NT2	triga-2-rikkyo reactor		
NT2	slowpoke-ottawa reactor	NT2	triga-2-rome reactor		
NT2	slowpoke-toronto reactor	NT2	triga-2-seoul reactor		
NT2	slowpoke-wvre reactor	NT2	triga-2-vienna reactor		
NT1	smolensk-1 reactor	NT2	triga-3-la jolla reactor		
NT1	smolensk-2 reactor	NT2	triga-3-munich reactor		
NT1	smolensk-3 reactor	NT2	triga-3-salazar reactor		
NT1	snap 10 reactor	NT2	triga-3-seoul reactor		
NT2	s10fs-1 reactor	NT2	triga-brazil reactor		
NT2	s10fs-3 reactor	NT2	triga-texas reactor		
NT2	s10fs-4 reactor	NT2	triga-veterans reactor		
NT1	snap 2 reactor	NT2	ucbr reactor		
NT2	s2ds reactor	NT2	uwnr reactor		
NT1	snap 50 reactor	NT2	wsur reactor		
NT1	snap 8 reactor	NT1	tritium reactor		
NT2	s8dr reactor	NT1	trr-1 reactor		
NT2	s8er reactor	NT1	tsr-1 reactor		
NT1	snap-tsrf reactor	NT1	tz1 reactor		
NT1	naptran reactors	NT1	tz2 reactor		
NT1	spert-1 reactor	NT1	uhtrex reactor		
NT1	spert-2 reactor	NT1	uknr reactor		
NT1	spert-3 reactor	NT1	umne-1 reactor		
NT1	spert-4 reactor	NT1	umrr reactor		
NT1	sr-1 reactor	NT1	utr reactor		
NT1	sr-0a reactor	NT1	uvar reactor		
NT1	sre reactor	NT1	uwtr reactor		

**ENRICHMENT**

2000-04-12

*For isotopic enrichment use ISOTOPE SEPARATION.*

NT1 ore enrichment  
 NT1 oxygen enrichment  
 RT isotope separation  
 RT purification  
 RT refining

**enrichment (isotopic)**

USE isotope separation

**enrichment (ores)**

USE ore enrichment

**enrichment (uranium)***INIS: 1975-08-20; ETDE: 2002-06-13*

USE isotope separation

**enrichment plants (centrifuge)***INIS: 1978-02-23; ETDE: 1978-04-27*

USE centrifuge enrichment plants

**enrichment plants (gaseous diffusion)***INIS: 1993-11-08; ETDE: 2002-06-13*

USE gaseous diffusion plants

**enrichment plants (ultracentrifuge)**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE centrifuge enrichment plants

**ENRICO FERMI-1 REACTOR**

Detroit Edison Co., New Port, Michigan, USA. Shut down in 1972; mothballed.

- \*BT1 enriched uranium reactors
- \*BT1 lmfr type reactors
- \*BT1 power reactors
- \*BT1 sodium cooled reactors

**ENRICO FERMI-2 REACTOR**

Detroit Edison Co., New Port, Michigan, USA.

- \*BT1 bwr type reactors

**enrico fermi award**

INIS: 2000-04-12; ETDE: 1981-01-27  
(Prior to June 1994, this was a valid ETDE descriptor.)  
USE awards

**enrico fermi nuclear research center reactor**

1993-11-05  
USE cesnef reactor

**enrico fermi reactor**

2000-04-12  
(Prior to February 1995, this was a valid ETDE descriptor.)  
SEE pwr type reactors  
SEE ship propulsion reactors

**ENSTATITE**

ETDE: 1976-03-31  
A common rock forming mineral of the orthopyroxene group.  
\*BT1 silicate minerals  
RT magnesium silicates

**ENTERITIS**

- \*BT1 digestive system diseases
- RT diarrhea
- RT intestines

**ENTHALPY**

- \*BT1 thermodynamic properties
- NT1 absorption heat
- NT1 adsorption heat
- NT1 mixing heat
- NT1 reaction heat
- NT2 combustion heat
- NT2 dissociation heat
- NT2 formation heat
- NT1 solution heat
- NT1 transition heat
- NT2 fusion heat
- NT2 sublimation heat
- NT2 vaporization heat
- RT entropy
- RT heating load
- RT thermodynamics

**enthalpy of formation**

INIS: 1975-09-01; ETDE: 2002-06-13  
USE formation heat

**enthalpy wheels**

2006-07-03  
SEE heat exchangers

**ENTITLEMENTS PROGRAM**

INIS: 2000-04-12; ETDE: 1977-06-02  
Government program under which refiners with unusually large amounts of old (cheaper) crude pay premium to refine it; premium is paid to firms that have primarily higher-cost crude.

- UF domestic crude oil entitlements program
- RT allocations
- RT petroleum refineries
- RT prices

**entombment (radioactive materials)**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE containment

**entomology**

- USE insects

**ENTRAINMENT**

1997-06-17  
RT babcock and wilcox-dupont process  
RT ce entrained fuel process  
RT combined-cycle fw process  
RT dow gasification process  
RT extraction apparatuses  
RT impingement  
RT solvent extraction

**entrainment separators**

INIS: 2000-04-12; ETDE: 1977-03-08  
USE mist extractors

**ENTROPY**

- \*BT1 thermodynamic properties
- RT energy quality
- RT enthalpy
- RT formation free enthalpy
- RT h theorem
- RT isentropic processes
- RT quantum information
- RT thermodynamics

**ENTRY CONTROL SYSTEMS**

INIS: 1999-05-12; ETDE: 1982-07-08  
Systems for controlling access to areas of a facility.  
UF access denial systems  
BT1 control systems  
RT human intrusion  
RT identification systems  
RT physical protection  
RT physical protection devices  
RT security

**entwickelter fortschrittlicher druckwasser reaktor**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE efd-50 reactor

**envelope houses**

INIS: 2000-04-12; ETDE: 1981-06-13  
USE double envelope buildings

**ENVIRONMENT**

- RT accidents
- RT biological adaptation
- RT biosphere
- RT clean air acts
- RT clean water acts
- RT contamination
- RT controlled atmospheres
- RT earth atmosphere
- RT ecosystems
- RT environmental awareness
- RT environmental effects
- RT environmental exposure pathway
- RT environmental impact statements
- RT environmental impacts
- RT environmental policy

- RT environmental protection
- RT environmental transport
- RT fallout deposits
- RT habitat
- RT hydrosphere
- RT land use
- RT nature reserves
- RT pollution
- RT preventive medicine
- RT radiation protection
- RT radionuclide migration
- RT reactor sites
- RT recreational areas
- RT regional analysis
- RT site selection
- RT thermal comfort
- RT us national environmental policy act
- RT water use
- RT wilderness protection acts

**ENVIRONMENTAL AWARENESS**

2004-08-26  
Public consciousness related to the environment, preservation of its quality, and causes of its deterioration.  
BT1 public opinion  
RT environment  
RT environmental policy  
RT environmental quality

**environmental concentration**

INIS: 2000-04-12; ETDE: 1984-06-14  
USE ecological concentration

**ENVIRONMENTAL EFFECTS**

1991-08-09  
Actual effects on the environment.  
RT environment  
RT environmental impact statements  
RT environmental impacts  
RT environmental policy  
RT environmental protection  
RT land pollution  
RT thermal pollution  
RT water pollution

**ENVIRONMENTAL ENGINEERING**

- BT1 engineering
- RT aesthetics
- RT air conditioning
- RT pollution control equipment
- RT remedial action

**ENVIRONMENTAL EXPOSURE**

INIS: 1992-02-20; ETDE: 1984-09-21  
RT acute exposure  
RT air pollution  
RT carcinogens  
RT chronic exposure  
RT hazardous materials  
RT ionizing radiations  
RT land pollution  
RT mutagens  
RT water pollution

**environmental exposure chambers**

INIS: 1978-09-28; ETDE: 1977-10-20  
USE exposure chambers

**ENVIRONMENTAL EXPOSURE PATHWAY**

INIS: 1975-09-25; ETDE: 1975-10-01  
RT biointrusion  
RT biological availability  
RT biological models  
RT ecosystems  
RT environment  
RT food chains  
RT radioactive waste disposal  
RT radionuclide migration

**ENVIRONMENTAL IMPACT STATEMENTS**

Use only for items about Environmental Impact Statements, not for documents which are such statements.

- BT1 document types
- RT environment
- RT environmental effects
- RT environmental impacts
- RT us national environmental policy act

**ENVIRONMENTAL IMPACTS**

INIS: 1977-07-05; ETDE: 1977-01-31

Possible or anticipated effects on the environment from a proposed project.

- RT aesthetics
- RT environment
- RT environmental effects
- RT environmental impact statements
- RT environmental policy
- RT environmental protection
- RT heavy metals
- RT kyoto protocol
- RT life cycle assessment
- RT nuclear winter
- RT rio declaration

**ENVIRONMENTAL MATERIALS**

INIS: 1980-12-02; ETDE: 1978-01-23

Use only for unspecified samples from the environment.

- UF materials (environmental)
- BT1 materials
- RT air
- RT atmospheric precipitations
- RT biological materials
- RT detritus
- RT minerals
- RT ores
- RT rocks
- RT sediments
- RT soils
- RT water

**ENVIRONMENTAL MEASUREMENTS LABORATORY**

INIS: 1992-07-07; ETDE: 1984-07-20

New York, USA.

- SF eml
- \*BT1 us doe

**environmental parks**

INIS: 1992-03-30; ETDE: 1978-08-08

- USE nature reserves

**ENVIRONMENTAL POLICY**

INIS: 1999-07-07; ETDE: 1978-02-14

- SF policy
- BT1 government policies
- NT1 emissions trading
- NT1 water policy
- RT clean air acts
- RT clean water acts
- RT economics
- RT emissions tax
- RT environment
- RT environmental awareness
- RT environmental effects
- RT environmental impacts
- RT kyoto protocol
- RT life cycle assessment
- RT planning
- RT rio declaration
- RT sustainable development
- RT us national environmental policy act
- RT us superfund

**ENVIRONMENTAL PROTECTION**

2004-08-26

Action to minimize harmful effects of human activities on the environment.

- UF nature conservation
- RT climatic change
- RT environment
- RT environmental effects
- RT environmental impacts
- RT kyoto protocol
- RT resource conservation
- RT rio declaration
- RT sustainable development

**environmental protection agency**

1978-07-04

- USE us epa

**ENVIRONMENTAL QUALITY**

INIS: 1991-08-07; ETDE: 1979-09-06

- NT1 air quality
- NT1 water quality
- RT environmental awareness

**environmental temperature**

INIS: 2000-04-12; ETDE: 1976-03-22

- USE ambient temperature

**ENVIRONMENTAL TRANSPORT**

INIS: 1982-12-03; ETDE: 1976-11-01

For movement of chemicals, nuclides, etc., in the environment; not for goods and persons.

- SF transport (environmental)
- BT1 mass transfer
- NT1 long-range transport
- NT1 radionuclide migration
- NT1 runoff
- RT air-biosphere interactions
- RT air-water interactions
- RT downwelling
- RT ecological concentration
- RT environment
- RT leachates
- RT radioecological concentration
- RT sinks
- RT transfrontier contamination

**ENZYMATIC HYDROLYSIS**

INIS: 1997-06-19; ETDE: 1976-03-22

- UF cellulolytic activity
- \*BT1 hydrolysis
- RT acid hydrolysis
- RT alkaline hydrolysis
- RT biodegradation
- RT cellulase
- RT clostridium thermocellum
- RT enzymes
- RT hydrolases
- RT thermoactinomyces

**ENZYME ACTIVITY**

INIS: 1985-07-23; ETDE: 1978-08-08

- RT activity levels
- RT biochemical reaction kinetics
- RT catalysis
- RT chemical reaction kinetics
- RT enzymes
- RT metabolic activation
- RT metabolism
- RT structure-activity relationships

**ENZYME IMMUNOASSAY**

INIS: 1985-01-18; ETDE: 1985-02-22

- UF elisa
- \*BT1 immunoassay
- RT antibodies
- RT antigen-antibody reactions
- RT antigens
- RT cpb
- RT enzymes

**ENZYME INDUCTION**

INIS: 1992-03-10; ETDE: 1985-11-19

The process by which a cell accelerates the production of a specific protein or enzyme in response to environmental changes.

- BT1 gene regulation
- RT biosynthesis
- RT enzymes
- RT gene repressors

**ENZYME INHIBITORS**

INIS: 1978-08-30; ETDE: 1976-03-11

Substances capable of stopping or retarding the action of an enzyme. They usually interact with the enzyme to reduce the rate of reaction.

- UF inhibitors (enzyme)
- RT enzymes
- RT inhibition

**ENZYME REACTIVATION**

INIS: 1993-08-24; ETDE: 1976-11-01

- RT chemical activation
- RT enzymes

**ENZYMES**

The enzyme code numbers from enzyme nomenclature: Recommendations (1972) of the International Union of Pure and Applied Chemistry and the International Union of Biochemistry are given in scope notes for the individual enzymes.

- UF photoreactivating enzyme
- UF pre (photoreactivating enzyme)
- \*BT1 proteins
- NT1 dna helicases
- NT1 gene recombination proteins
- NT1 hydrolases
  - NT2 acid anhydrases
  - NT3 gtp-ases
  - NT3 phosphohydrolases
  - NT4 atp-ase
- NT2 esterases
  - NT3 carboxylesterases
  - NT4 cholinesterase
  - NT4 lipases
- NT3 phosphatases
  - NT4 acid phosphatase
  - NT4 alkaline phosphatase
  - NT4 nucleotidases
- NT3 phosphodiesterases
  - NT4 nucleases
  - NT5 dna-ase
  - NT6 endonucleases
  - NT5 rna-ase
- NT2 glycosyl hydrolases
  - NT3 o-glycosyl hydrolases
  - NT4 amylase
  - NT4 cellulase
  - NT4 galactosidase
  - NT4 glucosidase
  - NT4 glucuronidase
  - NT4 hyaluronidase
  - NT4 lysozyme
  - NT4 xylanase
- NT2 non-peptide c-n hydrolases
  - NT3 amidases
  - NT4 arginase
  - NT4 urease
  - NT3 amidinases
- NT2 peptide hydrolases
  - NT3 acid proteinases
  - NT4 pepsin
  - NT3 aminopeptidases
  - NT3 carboxypeptidases
  - NT3 nonspecific peptidases
  - NT4 renin
  - NT4 urokinase
  - NT3 serine proteinases
  - NT4 chymotrypsin
  - NT4 fibrinolysin

**NT4** kallikrein  
**NT4** thrombin  
**NT4** trypsin  
**NT3** sh-proteinases  
**NT4** cathepsins  
**NT4** papain  
**NT4** streptococcal proteinase  
**NT1** isomerases  
**NT1** ligases  
**NT1** lyases  
**NT2** carbon-carbon lyases  
**NT3** aldehyde-lyases  
**NT3** aldolases  
**NT3** carboxy-lyases  
**NT4** carboxylase  
**NT4** decarboxylases  
**NT4** ribulose diphosphate carboxylase  
**NT2** carbon-oxygen lyases  
**NT3** hyaluronidase  
**NT3** hydro-lyases  
**NT4** carbonic anhydrase  
**NT2** cyclases  
**NT2** dna methylases  
**NT1** oxidoreductases  
**NT2** amine oxidases  
**NT2** aryl 4-monooxygenase  
**NT2** diaphorase  
**NT2** hemiacetal dehydrogenases  
**NT3** alcohol dehydrogenase  
**NT3** lactate dehydrogenase  
**NT2** hydrogenases  
**NT2** hydroxylases  
**NT3** tyrosinase  
**NT2** nitro-group dehydrogenases  
**NT3** nitrogenase  
**NT2** oxidases  
**NT3** cytochrome oxidase  
**NT3** luciferase  
**NT2** oxygenases  
**NT3** mixed-function oxidases  
**NT2** peroxidases  
**NT3** catalase  
**NT2** superoxide dismutase  
**NT1** transferases  
**NT2** carbon-group transferases  
**NT3** methyl transferases  
**NT2** glycosyl transferases  
**NT3** hexosyl transferases  
**NT3** pentosyl transferases  
**NT4** hypoxanthine phosphoribosyltransferase  
**NT2** nitrogen transferases  
**NT3** aminotransferases  
**NT2** phosphorus-group transferases  
**NT3** nucleotidyltransferases  
**NT4** polymerases  
**NT5** dna polymerases  
**NT5** rna polymerases  
**NT3** phosphotransferases  
**NT4** hexokinase  
**RT** autolysis  
**RT** biochemical reaction kinetics  
**RT** biochemistry  
**RT** biosynthesis  
**RT** catalysis  
**RT** coenzymes  
**RT** digestion  
**RT** enzymatic hydrolysis  
**RT** enzyme activity  
**RT** enzyme immunoassay  
**RT** enzyme induction  
**RT** enzyme inhibitors  
**RT** enzyme reactivation  
**RT** glycolysis  
**RT** immobilized enzymes  
**RT** isoenzymes  
**RT** metabolism  
**RT** radioenzymatic assay

**RT** receptors  
**RT** substrates

### EOCENE EPOCH

*INIS: 1992-04-14; ETDE: 1977-10-20*

**\*BT1** tertiary period  
**RT** geologic history

### EOCR REACTOR

*INEEL, Idaho Falls, Idaho, USA. Never operational.*

**UF** experimental organic cooled reactor  
**\*BT1** enriched uranium reactors  
**\*BT1** experimental reactors  
**\*BT1** organic cooled reactors  
**\*BT1** organic moderated reactors  
**\*BT1** research reactors  
**\*BT1** tank type reactors  
**\*BT1** test reactors  
**\*BT1** thermal reactors

### EOLE REACTOR

*CEA/CEN, Cadarache, St. Paul Lez Durance, France.*

**\*BT1** heavy water cooled reactors  
**\*BT1** heavy water moderated reactors  
**\*BT1** research reactors  
**\*BT1** tank type reactors  
**RT** enriched uranium reactors  
**RT** natural uranium reactors

### eor

*INIS: 2000-04-12; ETDE: 1980-03-04*

**SEE** enhanced recovery

### EOSIN

**BT1** dyes  
**\*BT1** hydroxy acids  
**BT1** indicators  
**\*BT1** organic bromine compounds  
**RT** phthalic acid

### EOSINOPHILS

**\*BT1** leukocytes

### epa

**USE** us epa

### epca

*INIS: 2000-04-12; ETDE: 1976-09-29*

**USE** us energy policy and conservation act

### epdm

*INIS: 1992-09-25; ETDE: 1980-05-06*

**USE** ethylene propylene diene polymers

### EPEC REACTOR

**\*BT1** power reactors

### EPHEDRINE

**\*BT1** alkaloids  
**\*BT1** amines  
**\*BT1** hydroxy compounds  
**\*BT1** sympathomimetics  
**\*BT1** vasoconstrictors

### EPHEMEROPTERA

*INIS: 1993-07-14; ETDE: 1984-02-21*

**UF** mayflies

**\*BT1** insects

**RT** aquatic organisms

### EPIC STORAGE RING

*Electron-positron(proton) intersecting complex.*

**\*BT1** pep storage rings

### EPICENTERS

*INIS: 1985-01-17; ETDE: 1978-10-25*

*The parts of the earth's surface directly above the foci of earthquakes.*

**RT** earthquakes

### EPIDEMIOLOGY

**RT** a-bomb survivors  
**RT** aids  
**RT** disease incidence  
**RT** disease resistance  
**RT** diseases  
**RT** human populations  
**RT** infectious diseases  
**RT** preventive medicine

### EPIDERMIS

**\*BT1** epithelium  
**\*BT1** skin

### EPIDOTES

*2000-04-12*

*A mineral commonly found in metamorphic rock.*

**\*BT1** silicate minerals  
**RT** aluminium silicates  
**RT** calcium silicates  
**RT** iron silicates

### EPILATION

**BT1** pathological changes  
**RT** hair  
**RT** skin

### EPILEPSY

*INIS: 1980-07-24; ETDE: 1976-07-07*

**\*BT1** nervous system diseases

### epinephrine

*ETDE: 1981-04-20*

**USE** adrenaline

### epiphysis (bones)

**USE** bone tissues

### epiphysis (pineal gland)

**USE** pineal gland

### EPITAXY

**BT1** crystal growth methods  
**NT1** liquid phase epitaxy  
**NT1** molecular beam epitaxy  
**NT1** vapor phase epitaxy  
**RT** crystal growth  
**RT** crystallization

### EPITHELIOMAS

**SF** skin cancer  
**\*BT1** carcinomas  
**NT1** melanomas  
**RT** epithelium

### EPITHELIUM

**\*BT1** animal tissues  
**NT1** epidermis  
**RT** carcinomas  
**RT** conjunctiva  
**RT** crypt cells  
**RT** endothelium  
**RT** epitheliomas  
**RT** hair follicles  
**RT** mucous membranes

### EPITHERMAL NEUTRONS

**\*BT1** neutrons  
**RT** epithermal reactors

### EPITHERMAL REACTORS

**BT1** reactors  
**NT1** fast reactors  
**NT2** actinide burner reactors  
**NT2** afsr reactor  
**NT2** aprf reactor  
**NT2** bfs reactor  
**NT2** bigr reactor  
**NT2** bir reactor  
**NT2** cefr reactor  
**NT2** cfrmf reactor

NT2 clementine reactor  
 NT2 coral-1 reactor  
 NT2 ecel reactor  
 NT2 fbr type reactors  
   NT3 aipfr reactor  
   NT3 gcfr type reactors  
     NT4 gcfr reactor  
 NT3 kalpakkam pfr reactor  
 NT3 lmfbr type reactors  
   NT4 beloyarsk-3 reactor  
   NT4 beloyarsk-4 reactor  
   NT4 bn-1600 reactor  
   NT4 bn-350 reactor  
   NT4 bn-800 reactor  
   NT4 bor-60 reactor  
   NT4 cdfr reactor  
   NT4 clinch river breeder reactor  
   NT4 dfr reactor  
   NT4 ebr-1 reactor  
   NT4 ebr-2 reactor  
   NT4 enrico fermi-1 reactor  
   NT4 joyo reactor  
   NT4 kalpakkam lmfbr reactor  
   NT4 monju reactor  
   NT4 pfr reactor  
   NT4 phenix reactor  
   NT4 plbr reactor  
   NT4 rapsodie reactor  
   NT4 sbr-1 reactor  
   NT4 sbr-2 reactor  
   NT4 sbr-5 reactor  
   NT4 snr-2 reactor  
   NT4 snr reactor  
   NT4 super phenix reactor  
 NT3 pec brasimone reactor  
 NT3 zebra reactor  
 NT2 fbrf reactor  
 NT2 fca reactor  
 NT2 ftf reactor  
 NT2 fr-0 reactor  
 NT2 harmonie reactor  
 NT2 hprr reactor  
 NT2 ibr-2 reactor  
 NT2 ibr-30 reactor  
 NT2 ifr reactor  
 NT2 kalpakkam pfr reactor  
 NT2 kbr-1 reactor  
 NT2 knk-2 reactor  
 NT2 lampre-1 reactor  
 NT2 masurca reactor  
 NT2 purnima-2 reactor  
 NT2 purnima reactor  
 NT2 saref reactor  
 NT2 sefor reactor  
 NT2 sneak reactor  
 NT2 sora reactor  
 NT2 stf reactor  
 NT2 tapiro reactor  
 NT2 tibr reactor  
 NT2 vera reactor  
 NT2 viper reactor  
 NT2 wnt reactor  
 NT2 yayoi reactor  
 NT2 zephyr reactor  
 NT2 zppr reactor  
 NT2 zpr-3 reactor  
 NT2 zpr-6 reactor  
 NT2 zpr-9 reactor  
 NT2 zrr reactor  
 NT1 intermediate reactors  
 NT2 thor reactor  
 RT epithermal neutrons

**EPOXIDES**

UF epoxy compounds  
 UF oxirans  
 UF poly(isobutylene oxide)  
 \*BT1 organic oxygen compounds  
 NT1 araldite

RT heterocyclic compounds  
 RT potting materials  
 RT resins

**epoxy compounds**

USE epoxides

**epr**

USE electron spin resonance

**EPR SPECTROMETERS**

\*BT1 spectrometers

**EPRI**

INIS: 1982-12-03; ETDE: 1977-01-10  
 Organization founded by US utilities to develop and carryout broad, coordinated technology program for improving electric power.

UF electric power research institute

RT electric power

RT electric power industry

**epsilon resonances**

2000-04-12

USE mesons

**epstein-barr virus**

INIS: 1976-03-25; ETDE: 1975-08-19

USE oncogenic viruses

**EQUATIONS**

1996-07-08

(Prior to July 1996 MASSEY-MOHR EQUATION was a valid ETDE descriptor.)

UF massey-mohr equation

NT1 abfst equation

NT1 arrhenius equation

NT1 bethe-goldstone equation

NT1 bethe-salpeter equation

NT1 bloch equations

NT1 born-mayer equation

NT1 differential equations

  NT2 bbgky equation

  NT2 chapman-kolmogorov equation

  NT2 dirac-hestenes equation

  NT2 hill equation

  NT2 joos-weinberg equation

  NT2 mathieu equation

  NT2 partial differential equations

    NT3 boltzmann equation

    NT3 boltzmann-vaslov equation

    NT4 plasma fluid equations

  NT3 continuity equations

  NT3 diffusion equations

    NT4 neutron diffusion equation

  NT3 equations of motion

  NT3 fokker-planck equation

  NT3 fourier heat equation

  NT3 grad-shafranov equation

  NT3 hamilton-jacobi equations

  NT3 korteweg-de vries equation

  NT3 lagrange equations

  NT3 laplace equation

  NT3 maxwell equations

  NT3 navier-stokes equations

  NT3 poisson equation

  NT3 proca equations

  NT3 wave equations

    NT4 dirac equation

    NT4 klein-gordon equation

    NT4 schrodinger equation

  NT2 riccati equation

  NT2 schwinger functional equations

  NT2 sturm-liouville equation

NT1 equations of state

NT1 faddeev equations

NT1 field equations

  NT2 dirac equation

  NT2 einstein field equations

  NT2 einstein-maxwell equations

NT2 klein-gordon equation

NT2 sine-gordon equation

NT1 gribov-lipatov relation

NT1 inhour equation

NT1 integral equations

  NT2 blankenbecler-sugar equations

  NT2 fredholm equation

  NT2 lippmann-schwinger equation

  NT2 quasipotential equation

  NT2 volterra integral equations

NT1 integro-differential equations

  NT2 boltzmann equation

NT1 kinetic equations

  NT2 boltzmann equation

NT1 langevin equation

NT1 london equation

NT1 low equation

NT1 percus-yevick equation

NT1 prediction equations

NT1 rankine-hugoniot equations

NT1 reactor kinetics equations

  NT2 response matrix method

NT1 richardson equation

NT1 rydberg equation

NT1 saha equation

NT1 secular equation

NT1 sum rules

NT1 virial equation

NT1 weil equation

NT1 wilkins equation

RT functions

RT galerkin-petrov method

RT mathematical solutions

RT mathematics

RT series expansion

**equations (differential)**

2000-04-12

USE differential equations

**EQUATIONS OF MOTION**

\*BT1 partial differential equations

RT anharmonic oscillators

RT canonical transformations

RT hamilton-jacobi equations

RT hamiltonian function

RT harmonic oscillators

RT lagrangian function

RT limit cycle

RT mechanics

RT navier-stokes equations

RT particle kinematics

**EQUATIONS OF STATE**

BT1 equations

RT thermodynamics

RT virial equation

**EQUATOR**

RT geomagnetic equator

RT latitude effect

**equatorial electrojets**

USE electrojets

**EQUILIBRIUM**

NT1 lte

NT1 mhd equilibrium

NT1 thermal equilibrium

RT chemical reactions

RT dynamic function studies

RT partition

RT population dynamics

RT reaction kinetics

RT stability

RT steady-state conditions

RT thermodynamic activity

**EQUILIBRIUM PLASMA**

BT1 plasma

RT magnetic surfaces





NT5 vortex augmented turbines  
 NT3 turbochargers  
 NT3 turbodrills  
 NT3 turbofan engines  
 NT3 turbogenerators  
 NT3 turbojet engines  
 NT2 winding machines  
 NT1 magnetic energy storage equipment  
 NT1 magnets  
 NT2 beam bending magnets  
 NT2 beam focusing magnets  
 NT2 electromagnets  
 NT3 superconducting magnets  
 NT2 kicker magnets  
 NT2 permanent magnets  
 NT2 septum magnets  
 NT2 wiggler magnets  
 NT1 materials handling equipment  
 NT2 earthmoving equipment  
 NT3 bucket wheel excavators  
 NT3 draglines  
 NT2 grabs  
 NT2 haulage equipment  
 NT3 conveyors  
 NT4 belt conveyors  
 NT4 chain conveyors  
 NT3 loaders  
 NT4 cutter loaders  
 NT5 coal plows  
 NT5 continuous miners  
 NT5 heading machines  
 NT5 shearer loaders  
 NT3 mine cars  
 NT2 hoists  
 NT2 mixers  
 NT2 remote handling equipment  
 NT3 cranes  
 NT3 manipulators  
 NT2 shredders  
 NT2 winches  
 NT1 military equipment  
 NT1 mining equipment  
 NT2 bucket wheel excavators  
 NT2 cutting machines  
 NT3 cutter loaders  
 NT4 coal plows  
 NT4 continuous miners  
 NT4 heading machines  
 NT4 shearer loaders  
 NT2 roof bolts  
 NT1 odorant dispensers  
 NT1 optical equipment  
 NT1 particle size classifiers  
 NT1 pollution control equipment  
 NT2 acoustic agglomerators  
 NT2 afterburners  
 NT2 air filters  
 NT2 baghouses  
 NT2 catalytic converters  
 NT2 electrostatic precipitators  
 NT2 exhaust recirculation systems  
 NT2 oil retention booms  
 NT2 pcv systems  
 NT2 rotating disk removal systems  
 NT2 scrubbers  
 NT3 dry scrubbers  
 NT2 skimmers  
 NT2 weir oil recovery systems  
 NT1 portable equipment  
 NT1 pumps  
 NT2 centrifugal pumps  
 NT2 electromagnetic pumps  
 NT2 rod pumps  
 NT2 vacuum pumps  
 NT3 cryopumps  
 NT3 sputter-ion pumps  
 NT3 turbomolecular pumps  
 NT2 water pumps  
 NT3 solar water pumps

NT2 wind-powered pumps  
 NT1 remote viewing equipment  
 NT1 robots  
 NT1 samplers  
 NT2 air samplers  
 NT1 scrapers  
 NT1 separation equipment  
 NT2 extraction apparatuses  
 NT3 extraction columns  
 NT3 mist extractors  
 NT3 mixer-settlers  
 NT3 podbielniak contactors  
 NT2 inertial separators  
 NT3 cyclone separators  
 NT2 isotope separators  
 NT2 vapor separators  
 NT3 steam separators  
 NT1 solar equipment  
 NT2 heliostats  
 NT3 solar tracking systems  
 NT2 photovoltaic power supplies  
 NT2 pyranometers  
 NT2 pyrliometers  
 NT2 solar absorbers  
 NT2 solar battery chargers  
 NT2 solar cell arrays  
 NT3 solar tracking systems  
 NT2 solar cells  
 NT3 aluminium arsenide solar cells  
 NT3 back contact solar cells  
 NT3 cadmium arsenide solar cells  
 NT3 cadmium selenide solar cells  
 NT3 cadmium sulfide solar cells  
 NT3 cadmium telluride solar cells  
 NT3 cascade solar cells  
 NT3 concentrator solar cells  
 NT3 copper oxide solar cells  
 NT3 copper selenide solar cells  
 NT3 copper sulfide solar cells  
 NT3 gallium arsenide solar cells  
 NT3 gallium phosphide solar cells  
 NT3 indium phosphide solar cells  
 NT3 indium selenide solar cells  
 NT3 mi solar cells  
 NT3 mis solar cells  
 NT3 mos solar cells  
 NT3 ms solar cells  
 NT3 organic solar cells  
 NT3 pis solar cells  
 NT3 ps solar cells  
 NT3 schottky barrier solar cells  
 NT3 selenium solar cells  
 NT3 silicon arsenide solar cells  
 NT3 silicon solar cells  
 NT4 soc solar cells  
 NT3 zinc phosphide solar cells  
 NT3 zinc sulfide solar cells  
 NT2 solar collectors  
 NT3 combined collectors  
 NT3 concentrating collectors  
 NT4 fixed mirror collectors  
 NT4 parabolic collectors  
 NT5 parabolic dish collectors  
 NT5 parabolic trough collectors  
 NT4 slat type collectors  
 NT4 tower focus collectors  
 NT4 v trough collectors  
 NT3 evacuated collectors  
 NT4 evacuated tube collectors  
 NT3 flat plate collectors  
 NT4 trickle-type collectors  
 NT3 inflatable collectors  
 NT3 solar air heaters  
 NT3 solar ponds  
 NT4 roof ponds  
 NT3 solar tracking systems  
 NT3 unglazed solar collectors  
 NT2 solar concentrators  
 NT3 cassegrainian concentrators

NT3 compound parabolic concentrators  
 NT3 luminescent concentrators  
 NT3 solar reflectors  
 NT4 fresnel reflectors  
 NT4 orbital solar reflectors  
 NT4 parabolic reflectors  
 NT5 parabolic dish reflectors  
 NT5 parabolic trough reflectors  
 NT2 solar cookers  
 NT2 solar cooling systems  
 NT3 passive solar cooling systems  
 NT4 bead walls  
 NT4 drum walls  
 NT4 roof ponds  
 NT3 solar air conditioners  
 NT4 solar-assisted heat pumps  
 NT3 solar refrigerators  
 NT2 solar dryers  
 NT2 solar furnaces  
 NT2 solar heating systems  
 NT3 passive solar heating systems  
 NT4 bead walls  
 NT4 direct gain systems  
 NT4 drum walls  
 NT4 roof ponds  
 NT4 thermic diode solar panels  
 NT4 trombe walls  
 NT4 water walls  
 NT3 solar-assisted heat pumps  
 NT2 solar kilns  
 NT2 solar regenerators  
 NT2 solar simulators  
 NT2 solar stills  
 NT2 solar water heaters  
 NT3 passive solar water heaters  
 NT4 thermic diode solar panels  
 NT2 solar water pumps  
 NT2 spectrally selective surfaces  
 NT1 thermal energy storage equipment  
 NT1 tools  
 NT2 cutting tools  
 NT2 drill bits  
 NT2 machine tools  
 NT3 grinding machines  
 NT3 lathes  
 NT3 milling machines  
 NT1 tunneling machines  
 NT1 well casings  
 NT1 well logging equipment  
 NT1 wind tunnels  
 NT1 x-ray equipment  
 NT2 x-ray tubes  
 RT equipment interfaces  
 RT human factors engineering  
 RT office furniture  
 RT warranties

## EQUIPMENT INTERFACES

UF *interfaces (equipment)*  
 RT camac system  
 RT computer architecture  
 RT computers  
 RT data transmission  
 RT electronic equipment  
 RT equipment  
 RT fastbus system

## EQUIPMENT PROTECTION DEVICES

NT1 circuit breakers  
 NT1 electric fuses  
 RT cryostats  
 RT reactor protection systems  
 RT relays  
 RT switches

## EQUIVALENCE PRINCIPLE

RT general relativity theory  
 RT gravitational fields

*RT* mass

## EQUIVALENT CIRCUITS

BT1 electronic circuits

## EQUIVALENT FISSION FLUENCE

*INIS: 1976-05-07; ETDE: 1978-03-08*

\*BT1 damaging neutron fluence  
*RT* irradiation  
*RT* neutronic damage functions  
*RT* physical radiation effects

## EQUIVALENT-PHOTON

### APPROXIMATION

*UF* williams-weizsacker approximation  
\*BT1 approximations  
*RT* photon-photon interactions  
*RT* quantum electrodynamics

## ERBIUM

\*BT1 rare earths

## ERBIUM 143

*2007-10-22*

\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei

## ERBIUM 144

*2007-10-22*

\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei

## ERBIUM 145

*1989-07-19*

\*BT1 beta-plus decay radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei

## ERBIUM 146

*INIS: 1992-09-22; ETDE: 1984-09-05*

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes

## ERBIUM 147

*INIS: 1983-09-05; ETDE: 1983-08-25*

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

## ERBIUM 148

*1981-09-17*

\*BT1 beta-plus decay radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

## ERBIUM 149

*INIS: 1984-10-19; ETDE: 1984-05-08*

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

## ERBIUM 150

*INIS: 1977-01-25; ETDE: 1976-11-01*

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 rare earth nuclei

\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

## ERBIUM 151

*1977-01-26*

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-odd nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

## ERBIUM 152

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

## ERBIUM 153

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

## ERBIUM 154

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-even nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 rare earth nuclei

## ERBIUM 155

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-odd nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 rare earth nuclei

## ERBIUM 156

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-even nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 rare earth nuclei

## ERBIUM 157

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-odd nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 rare earth nuclei

## ERBIUM 158

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-even nuclei  
\*BT1 hours living radioisotopes  
\*BT1 rare earth nuclei

## ERBIUM 159

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-odd nuclei  
\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

## ERBIUM 160

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei

## ERBIUM 161

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 rare earth nuclei

## ERBIUM 162

\*BT1 erbium isotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 stable isotopes

## ERBIUM 162 TARGET

*ETDE: 1976-07-09*

BT1 targets

## ERBIUM 163

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 rare earth nuclei

## ERBIUM 163 TARGET

*INIS: 1979-02-21; ETDE: 1979-03-28*

BT1 targets

## ERBIUM 164

\*BT1 erbium isotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 stable isotopes

## ERBIUM 164 TARGET

*ETDE: 1976-07-09*

BT1 targets

## ERBIUM 165

\*BT1 electron capture radioisotopes  
\*BT1 erbium isotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 rare earth nuclei

## ERBIUM 165 TARGET

*INIS: 1979-02-21; ETDE: 1979-03-28*

BT1 targets

## ERBIUM 166

\*BT1 erbium isotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 stable isotopes

## ERBIUM 166 REACTIONS

*INIS: 1985-11-18; ETDE: 1985-12-13*

\*BT1 heavy ion reactions

## ERBIUM 166 TARGET

*ETDE: 1976-07-09*

BT1 targets

## ERBIUM 167

\*BT1 erbium isotopes  
\*BT1 even-odd nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 stable isotopes

**ERBIUM 167 TARGET***ETDE: 1976-07-09*

BT1 targets

**ERBIUM 168**

\*BT1 erbium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**ERBIUM 168 TARGET***ETDE: 1976-07-09*

BT1 targets

**ERBIUM 169**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 rare earth nuclei

**ERBIUM 170**

\*BT1 erbium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**ERBIUM 170 TARGET***ETDE: 1976-07-09*

BT1 targets

**ERBIUM 171**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 rare earth nuclei

**ERBIUM 172**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei

**ERBIUM 173**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**ERBIUM 174***INIS: 1989-04-20; ETDE: 1989-05-11*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**ERBIUM 175***1996-03-14*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei

**ERBIUM 176***2007-10-22*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**ERBIUM 177***2007-10-22*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**ERBIUM ADDITIONS***Alloys containing not more than 1% Er are listed here.*

\*BT1 erbium alloys  
 \*BT1 rare earth additions

**ERBIUM ALLOYS***Alloys containing more than 1% Er.*

\*BT1 rare earth alloys  
 NT1 erbium additions  
 NT1 erbium base alloys

**ERBIUM BASE ALLOYS**

\*BT1 erbium alloys

**ERBIUM BORIDES**

\*BT1 borides  
 \*BT1 erbium compounds

**ERBIUM BROMIDES**

\*BT1 bromides  
 \*BT1 erbium compounds

**ERBIUM CARBIDES**

\*BT1 carbides  
 \*BT1 erbium compounds

**ERBIUM CARBONATES**

\*BT1 carbonates  
 \*BT1 erbium compounds

**ERBIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 erbium compounds

**ERBIUM COMPLEXES**

\*BT1 rare earth complexes

**ERBIUM COMPOUNDS***1997-06-17*

BT1 rare earth compounds  
 NT1 erbium borides  
 NT1 erbium bromides  
 NT1 erbium carbides  
 NT1 erbium carbonates  
 NT1 erbium chlorides  
 NT1 erbium fluorides  
 NT1 erbium hydrides  
 NT1 erbium hydroxides  
 NT1 erbium iodides  
 NT1 erbium nitrates  
 NT1 erbium nitrides  
 NT1 erbium oxides  
 NT1 erbium perchlorates  
 NT1 erbium phosphates  
 NT1 erbium phosphides  
 NT1 erbium selenides  
 NT1 erbium silicides  
 NT1 erbium sulfates  
 NT1 erbium sulfides  
 NT1 erbium tellurides  
 NT1 erbium tungstates

**ERBIUM FLUORIDES**

\*BT1 erbium compounds  
 \*BT1 fluorides

**ERBIUM HYDRIDES**

\*BT1 erbium compounds  
 \*BT1 hydrides

**ERBIUM HYDROXIDES**

\*BT1 erbium compounds  
 \*BT1 hydroxides

**ERBIUM IODIDES**

\*BT1 erbium compounds  
 \*BT1 iodides

**ERBIUM IONS**

\*BT1 ions

**ERBIUM ISOTOPES***1996-03-14*

BT1 isotopes  
 NT1 erbium 143  
 NT1 erbium 144  
 NT1 erbium 145  
 NT1 erbium 146  
 NT1 erbium 147  
 NT1 erbium 148  
 NT1 erbium 149  
 NT1 erbium 150  
 NT1 erbium 151  
 NT1 erbium 152  
 NT1 erbium 153  
 NT1 erbium 154  
 NT1 erbium 155  
 NT1 erbium 156  
 NT1 erbium 157  
 NT1 erbium 158  
 NT1 erbium 159  
 NT1 erbium 160  
 NT1 erbium 161  
 NT1 erbium 162  
 NT1 erbium 163  
 NT1 erbium 164  
 NT1 erbium 165  
 NT1 erbium 166  
 NT1 erbium 167  
 NT1 erbium 168  
 NT1 erbium 169  
 NT1 erbium 170  
 NT1 erbium 171  
 NT1 erbium 172  
 NT1 erbium 173  
 NT1 erbium 174  
 NT1 erbium 175  
 NT1 erbium 176  
 NT1 erbium 177

**ERBIUM NITRATES**

\*BT1 erbium compounds  
 \*BT1 nitrates

**ERBIUM NITRIDES**

\*BT1 erbium compounds  
 \*BT1 nitrides

**ERBIUM OXIDES**

\*BT1 erbium compounds  
 \*BT1 oxides

**ERBIUM PERCHLORATES***INIS: 2000-04-12; ETDE: 1975-10-28*

\*BT1 erbium compounds  
 \*BT1 perchlorates

**ERBIUM PHOSPHATES***INIS: 1986-01-21; ETDE: 1984-03-06*

\*BT1 erbium compounds  
 \*BT1 phosphates

**ERBIUM PHOSPHIDES***INIS: 1981-08-06; ETDE: 1978-08-07*

\*BT1 erbium compounds  
 \*BT1 phosphides

**ERBIUM SELENIDES***INIS: 1978-08-30; ETDE: 1977-12-22*

\*BT1 erbium compounds  
 \*BT1 selenides

**ERBIUM SILICIDES***INIS: 1975-10-29; ETDE: 1975-12-16*

\*BT1 erbium compounds  
 \*BT1 silicides

**ERBIUM SULFATES**

\*BT1 erbium compounds  
 \*BT1 sulfates

**ERBIUM SULFIDES**

\*BT1 erbium compounds

\*BT1 sulfides

**ERBIUM TELLURIDES**  
*INIS: 1991-09-16; ETDE: 1977-11-28*  
 \*BT1 erbium compounds  
 \*BT1 tellurides

**ERBIUM TUNGSTATES**  
 1988-02-02  
 \*BT1 erbium compounds  
 \*BT1 tungstates

**EREVAN SYNCHROTRON**  
*UF eku*  
*UF yerevan synchrotron*  
 \*BT1 synchrotrons

**ERGOALCIFEROL**  
*UF vitamin d-2*  
 \*BT1 vitamin d

**ERGODIC DIVERTORS**  
 1995-11-21  
*Devices based on externally produced ergodicity of the magnetic field configuration in the plasma edge region to divert plasma impurities and fuel ash in magnetic fusion devices.*  
 BT1 divertors  
 RT randomness

**ERGODIC HYPOTHESIS**  
 BT1 hypothesis  
 RT phase space  
 RT probability  
 RT statistical mechanics

**ergonomics**  
*INIS: 1995-01-10; ETDE: 1982-06-07*  
 USE human factors engineering

**ERGOSTEROL**  
 \*BT1 sterols

**ERGOTAMINE**  
 \*BT1 alkaloids  
 \*BT1 sympatholytics  
 RT indoles

**ericson fluctuations**  
 USE ericson theory

**ERICSON THEORY**  
*UF ericson fluctuations*  
 RT random phase approximation

**ERICSSON CYCLE**  
 2003-06-26  
*An ideal thermodynamic cycle consisting of two isobaric processes interspersed with processes which are, in effect, isothermal, but each of which consists of an infinite number of alternating isentropic and isobaric processes.*  
 BT1 thermodynamic cycles  
 RT thermodynamics

**ERIE-1 REACTOR**  
*INIS: 1977-09-06; ETDE: 1977-06-02*  
*Ohio Edison Co., Berlin Heights, Ohio, USA. Canceled in 1980 before construction began.*  
 \*BT1 pwr type reactors

**ERIE-2 REACTOR**  
*INIS: 1977-09-06; ETDE: 1977-06-02*  
*Ohio Edison Co., Berlin Heights, Ohio, USA. Canceled in 1980 before construction began.*  
 \*BT1 pwr type reactors

**ERIOCHROME DYES**  
 \*BT1 azo dyes  
 \*BT1 phenols  
 \*BT1 sulfonic acids

**erioglaucine**  
 2000-04-12  
 (Prior to February 1996 this was a valid ETDE descriptor.)  
 USE azo dyes  
 USE indicators  
 USE sulfonic acids

**ERITREA**  
*INIS: 2002-07-22; ETDE: 2002-06-17*  
 BT1 africa  
 BT1 developing countries

**ERMINE REACTOR**  
 \*BT1 zero power reactors

**ernest orlando lawrence award**  
*INIS: 2000-04-12; ETDE: 1981-01-27*  
 (Prior to June 1994, this was a valid ETDE descriptor.)  
 USE awards

**EROSION**  
 RT ablation  
 RT abrasion  
 RT corrosion  
 RT ground cover  
 RT soil conservation  
 RT wear

**EROSION CONTROL**  
*INIS: 1992-07-07; ETDE: 1985-09-23*  
 BT1 control  
 RT revegetation  
 RT soil conservation

**ERR REACTOR**  
*US AEC, Elk River, Minnesota, USA. Decommissioned in 1968.*  
*UF elk river reactor*  
 \*BT1 bwr type reactors  
 \*BT1 thorium reactors

**ERRORS**  
*For considerations of causes of errors. For data uncertainties use DATA COVARIANCES.*  
 RT accuracy  
 RT comparative evaluations  
 RT corrections  
 RT data covariances  
 RT performance  
 RT quality control  
 RT reliability  
 RT resolution  
 RT sensitivity analysis  
 RT tolerance

**ERUPTION**  
*INIS: 1993-02-18; ETDE: 1976-08-04*  
*The ejection of volcanic materials onto the earth's surface.*  
 RT lava  
 RT volcanism  
 RT volcanoes

**eruptive binary stars**  
*INIS: 1984-05-24; ETDE: 2002-06-13*  
 USE eruptive variable stars

**ERUPTIVE VARIABLE STARS**  
*INIS: 1978-11-24; ETDE: 1978-12-20*  
*Variable close binary systems, one star of which provides the other with accretion material.*  
*UF cataclysmic binary stars*  
*UF cataclysmic variable stars*  
*UF eruptive binary stars*  
 \*BT1 binary stars  
 \*BT1 variable stars  
 NT1 novae  
 NT1 supernovae  
 NT1 tauri stars

RT accretion disks  
 RT star accretion

**ERYTHEMA**  
 BT1 symptoms  
 RT skin  
 RT skin diseases

**ERYTHRITOL**  
*UF tetrahydroxybutane*  
 \*BT1 alcohols  
 \*BT1 monosaccharides

**erythroblasts**  
 USE bone marrow cells

**ERYTHROCYTES**  
 \*BT1 blood cells  
 NT1 reticulocytes  
 RT anemias  
 RT babesidae  
 RT blood groups  
 RT carboxyhemoglobin  
 RT hemagglutinins  
 RT hemoglobin  
 RT hemolysis  
 RT megaloblastic anemia  
 RT methemoglobin  
 RT sickle cell anemia

**ERYTHROMYCIN**  
 \*BT1 antibiotics

**ERYTHROPOIESIS**  
 BT1 blood formation  
 RT erythropoietin  
 RT hematopoietic system

**ERYTHROPOIETIN**  
 1999-07-08  
 BT1 mitogens  
 \*BT1 peptide hormones  
 RT erythropoiesis  
 RT growth factors

**ERYTHROSINE**  
*ETDE: 1975-09-11*  
 \*BT1 fluorescein  
 \*BT1 organic iodine compounds

**ERZGEBIRGE DEPOSIT**  
*INIS: 1992-02-04; ETDE: 1992-09-21*  
 \*BT1 uranium deposits  
 RT federal republic of germany  
 RT uranium ores

**ES COMPUTERS**  
 1982-02-10  
 BT1 computers

**ES-SALAM REACTOR**  
 2005-02-11  
*Centre de Development des Systemes Energetiques, Ainoussera, Algeria.*  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**ESA**  
*INIS: 1995-10-27; ETDE: 1980-11-25*  
*Until 1975 known as ESRO, and older material is indexed to ESRO.*  
*UF esro*  
*UF european space agency*  
*UF european space research organization*  
 BT1 international organizations

**ESADA-VESR REACTOR**

USA.

- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**ESARDA**

INIS: 1976-09-06; ETDE: 1976-11-01

European Safeguards Research and Development Association.

UF european safeguard research development association

BT1 international organizations

**escap**

Electron Spectroscopy for Chemical Analysis. (Prior to Dec 2002 CHEMICAL ANALYSIS + ELECTRON SPECTROSCOPY was used for this concept.)

USE x-ray photoelectron spectroscopy

**ESCAPE PEAKS**

- BT1 peaks
- RT gamma spectra

**escar**

INIS: 2000-04-12; ETDE: 1975-11-26 (Prior to July 1985, this was a valid ETDE descriptor and older material is so indexed.)

USE escar storage ring

**ESCAR STORAGE RING**

INIS: 1976-02-11; ETDE: 1977-01-31

Experimental Superconducting Accelerating Ring at Berkeley.

UF berkeley escar storage ring

UF escar

- BT1 storage rings
- \*BT1 synchrotrons

**ESCHERICHIA COLI**

- \*BT1 bacteria
- RT coliforms
- RT intestines

**escm-1 reactor**

INIS: 1975-11-07; ETDE: 1975-12-16

USE koeberg-1 reactor

**ESCOM REACTOR**

UF electricity supply company reactor

- \*BT1 power reactors

**escrow accounts**

INIS: 2000-04-12; ETDE: 1983-05-21

Monies or other items held by a third party. (Prior to February 1995, this was a valid ETDE descriptor.)

SEE compliance

**ESERINE**

UF physostigmine

- \*BT1 alkaloids
- \*BT1 parasymphathomimetics

**ESKIMOS**

- \*BT1 human populations
- RT arctic regions
- RT lapps

**ESOPHAGUS**

- BT1 digestive system
- \*BT1 organs
- RT mediastinum

**esr**

USE electron spin resonance

**ESR STORAGE RING**

INIS: 1992-02-22; ETDE: 1992-03-09

UF darmstadt storage ring

- BT1 storage rings

**esrf**

2000-09-08

USE european synchrotron radiation facility

**esro**

1997-01-28

(Until October 1995 this was a valid descriptor. Name changed in 1975 to ESA, and more recent material should have been indexed to ESA.)

USE esa

**esrom event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**ESSENTIAL OILS**

- \*BT1 oils
- RT buffalo gourd
- RT plants
- RT vegetable oils

**essex i project**

INIS: 2000-03-27; ETDE: 1975-08-19

(Until July 1996 this was a valid descriptor.)

USE underground explosions

**ESSOR REACTOR**

Joint Research Centre, Ispra, Italy.

UF orgel reactor

- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 natural uranium reactors
- \*BT1 organic cooled reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

**ESTERASES**

Code number 3.1.

- \*BT1 hydrolases
- NT1 carboxylesterases
- NT2 cholinesterase
- NT2 lipases
- NT1 phosphatases
- NT2 acid phosphatase
- NT2 alkaline phosphatase
- NT2 nucleotidases
- NT1 phosphodiesterases
- NT2 nucleases
- NT3 dna-ase
- NT4 endonucleases
- NT3 rna-ase
- RT esters

**ESTERIFICATION**

- BT1 chemical reactions
- RT esters

**ESTERS**

1996-10-23

Includes esters of organic and inorganic acids.

UF lanolin

UF wool fat

- BT1 organic compounds
- NT1 acetylcholine
- NT1 carbonic acid esters
- NT1 carboxylic acid esters
- NT2 acetic acid esters
- NT3 methyl acetate
- NT3 polyvinyl acetate
- NT3 vinyl acetate
- NT2 acetoacetic acid esters

- NT2 acrylic acid esters
- NT2 bromosulphophthalein
- NT2 carbamic acid esters
- NT2 citric acid esters
- NT2 glucoheptonate
- NT2 malathion
- NT2 methacrylic acid esters
- NT2 oxalic acid esters
- NT2 phenolphthalein
- NT2 retinoic acid
- NT1 cellulose esters
- NT2 nitrocellulose
- NT1 isocyanic acid esters
- NT1 lactones
- NT2 coumarin
- NT2 gibberellic acid
- NT1 nitric acid esters
- NT2 nitrocellulose
- NT2 nitroglycerin
- NT2 peroxyacetyl nitrate
- NT2 petn
- NT1 nitrous acid esters
- NT1 phorbol esters
- NT1 phosphinic acid esters
- NT1 phospholipids
- NT2 cardiolipin
- NT2 lecithins
- NT2 sphingomyelins
- NT1 phosphonic acid esters
- NT2 damp
- NT2 dhdecmp
- NT1 phosphoric acid esters
- NT2 butyl phosphates
- NT3 dbp
- NT3 mbp
- NT3 tbp
- NT2 hdehp
- NT2 mdpa
- NT2 phytic acid
- NT2 tcp
- NT1 phthalic acid esters
- NT1 polyacrylates
- NT2 lucite
- NT2 perspex
- NT2 plexiglas
- NT2 pmma
- NT1 polyesters
- NT2 dacron
- NT2 homalite
- NT2 mylar
- NT1 sulfonic acid esters
- NT2 alkyl benzenesulfonates
- NT2 ethyl methanesulfonate
- NT2 methyl methanesulfonate
- NT2 petroleum sulfonates
- NT1 sulfuric acid esters
- NT1 thiophosphoric acid esters
- NT2 cystaphos
- NT2 gammaphos
- NT2 parathion
- NT1 triglycerides
- NT2 corn oil
- NT2 linseed oil
- NT2 olive oil
- NT2 peanut oil
- NT2 soybean oil
- NT2 triolein
- RT carboxylic acid salts
- RT claisen condensation
- RT esterases
- RT esterification
- RT hydrolysis
- RT lipids

**esthetics**

INIS: 1983-06-30; ETDE: 1978-03-03

USE aesthetics

**ESTONIA**

*INIS: 1997-08-20; ETDE: 1993-03-15*  
(Until January 1993, this was indexed by USSR.)

*SF soviet union*  
*SF union of soviet socialist republics*  
*SF ussr*  
\*BT1 eastern europe

**ESTONIAN ORGANIZATIONS**

2004-03-31  
BT1 national organizations

**ESTRADIOL**

\*BT1 estranes  
\*BT1 estrogens  
\*BT1 hydroxy compounds

**ESTRANES**

\*BT1 steroids  
NT1 estradiol  
NT1 estriol  
NT1 estrone  
RT estrogens

**ESTRIOL**

\*BT1 estranes  
\*BT1 estrogens  
\*BT1 hydroxy compounds

**ESTROGENS**

\*BT1 steroid hormones  
NT1 estradiol  
NT1 estriol  
NT1 estrone  
RT castration  
RT estranes  
RT estrous cycle  
RT fish  
RT ovaries  
RT stilbestrol  
RT tamoxifen

**ESTRONE**

\*BT1 estranes  
\*BT1 estrogens  
\*BT1 hydroxy compounds  
\*BT1 ketones

**ESTROUS CYCLE**

RT estrogens  
RT female genitals  
RT luteinizing hormone  
RT menopause  
RT menstrual cycle  
RT menstruation disorders  
RT ovulation  
RT rhythmicity

**ESTUARIES**

\*BT1 coastal waters  
NT1 fiords  
NT1 long island sound  
RT eutrophication  
RT fresh water  
RT offshore nuclear power plants  
RT offshore sites  
RT rivers  
RT salinity  
RT seas  
RT seawater

**estuarine ecosystems**

USE aquatic ecosystems

**estuary event**

*INIS: 2000-04-12; ETDE: 1977-06-21*  
USE anvil project

**eta-1060 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE eta-1295 mesons

**eta-1275 mesons**

*INIS: 1995-08-07; ETDE: 1988-01-29*  
(From December 1987 until July 1995 this was a valid term.)  
USE eta-1295 mesons

**ETA-1295 MESONS**

1995-08-07  
(Until December 1987 this concept was indexed by ETA-1060 RESONANCES; from then until July 1995 it was indexed by ETA-1275 MESONS.)

UF eta-1060 resonances  
UF eta-1275 mesons  
\*BT1 pseudoscalar mesons

**ETA-1440 MESONS**

*INIS: 1987-12-21; ETDE: 1988-01-29*  
(Prior to December 1987 this concept was indexed by IOTA-1440 RESONANCES.)  
UF iota-1440 resonances  
\*BT1 pseudoscalar mesons

**eta-2980 resonances**

*INIS: 1987-12-21; ETDE: 1984-12-26*  
(Prior to December 1987 this was a valid descriptor.)  
USE eta c-2980 mesons

**eta-549**

USE eta mesons

**eta-700 resonances**

1988-03-08  
(Prior to December 1987 this was a valid descriptor.)  
USE mesons

**eta-958 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE eta prime-958 mesons

**ETA C-2980 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
(Prior to December 1987 this concept was indexed by ETA-2980 RESONANCES.)  
UF eta-2980 resonances  
UF eta-c resonances  
\*BT1 charmonium  
\*BT1 pseudoscalar mesons

**ETA C-3590 MESONS**

*INIS: 1995-08-07; ETDE: 1988-02-01*  
\*BT1 charmonium

**eta-c resonances**

*INIS: 2000-04-12; ETDE: 1984-12-26*  
USE eta c-2980 mesons

**ETA MESON BEAMS**

\*BT1 meson beams

**ETA MESONS**

UF eta-549  
\*BT1 pseudoscalar mesons

**ETA PRIME-958 MESONS**

*INIS: 1987-12-21; ETDE: 1988-01-25*  
(Prior to December 1987 this concept was indexed by ETA-958 RESONANCES.)  
UF eta-958 resonances  
UF x-zero resonances  
\*BT1 pseudoscalar mesons

**ETCHING**

1999-07-08

BT1 surface finishing  
RT ceramography  
RT dielectric track detectors  
RT masking  
RT metallography  
RT particle tracks

**ETDE**

1991-02-11

UF energy technology data exchange  
BT1 information systems  
RT international energy agency

**etf (tokamak)**

*INIS: 2000-04-12; ETDE: 1979-12-17*  
USE etf tokamak

**ETF TOKAMAK**

*INIS: 1981-07-06; ETDE: 1981-08-04*  
UF engineering test facility (tokamak)  
UF etf (tokamak)  
UF tokamak etf  
\*BT1 tokamak devices

**ethanal**

USE acetaldehyde

**ETHANE**

\*BT1 alkanes  
RT ddt

**ETHANOL**

UF cologne spirits  
UF ethyl alcohol  
UF fermentation alcohol  
UF grain alcohol  
\*BT1 alcohols  
RT ethanol fuels  
RT gasohol program

**ETHANOL FUELS**

*INIS: 1992-07-23; ETDE: 1979-09-06*  
*For pure ethanol, ethanol-water mixtures, or ethanol with additives; for ethanol-gasoline mixtures use GASOHOL.*  
\*BT1 alcohol fuels  
RT automotive fuels  
RT diesel fuels  
RT ethanol  
RT gasohol

**ETHANOL PLANTS**

*INIS: 1992-07-23; ETDE: 1981-05-18*  
BT1 industrial plants  
RT biomass conversion plants  
RT chemical plants

**ETHERS**

1996-10-23

*For the commonly used anesthetic and solvent, use ETHYL ETHER.*

UF batyl alcohol  
UF carbitols  
UF diglycol monoalkyl ethers  
UF ethocel  
UF ioglycamic acid  
UF octadecyl glyceryl ether-alpha  
UF oxetane  
\*BT1 organic oxygen compounds  
NT1 acetals  
NT2 acetal  
NT1 anisole  
NT1 butyl ether  
NT1 cellosolves  
NT1 crown ethers  
NT1 curcumin  
NT1 dme  
NT1 ethyl ether  
NT1 isopropyl ether

**NT1** methyl ether  
**NT1** methylal  
**NT1** mexamine  
**NT1** morpholines  
**NT1** phenyl ether  
*RT* polyethylene glycols  
*RT* tetrahydropyran  
*RT* thyronine  
*RT* thyroxine

**ETHICAL ASPECTS**

1982-02-09

*UF* ethics  
*RT* hazards  
*RT* political aspects  
*RT* public opinion  
*RT* radiation protection  
*RT* safety  
*RT* safety culture  
*RT* sociology

**ethics**

*INIS*: 2000-04-12; *ETDE*: 1978-03-03  
(Prior to July 1985, this was a valid *ETDE* descriptor.)

USE ethical aspects

**ethine**

USE acetylene

**ETHIONINE**

*UF* ethylmercaptoaminobutyric acid  
*UF* ethylthioaminobutyric acid  
\*BT1 amino acids  
\*BT1 antimetabolites  
\*BT1 lipotropic factors  
\*BT1 organic sulfur compounds

**ETHIOPIA**

BT1 africa  
BT1 developing countries

**ethnic groups**

*INIS*: 2000-04-12; *ETDE*: 1979-10-23

USE minority groups

**ethocel**

USE cellulose  
USE ethers

**ETHOXY RADICALS**

\*BT1 alkoxy radicals

**ethyl alcohol**

USE ethanol

**ETHYL ETHER**

*UF* diethyl ether  
\*BT1 ethers  
*RT* anesthetics  
*RT* organic solvents

**ETHYL METHANESULFONATE**

*ETDE*: 2005-01-28

(Prior to January 2005 EMS was used for this concept.)

*UF* ems (ethyl methanesulfonate)  
BT1 mutagens  
\*BT1 sulfonic acid esters  
*RT* methane

**ETHYL RADICALS**

\*BT1 alkyl radicals

**ethylaldehyde**

USE acetaldehyde

**ETHYLENE**

\*BT1 alkenes

**ethylene glycol**

USE glycols

**ethylene polymers**

USE polyethylenes

**ETHYLENE PROPYLENE DIENE POLYMERS**

*INIS*: 1992-09-25; *ETDE*: 1980-05-06

*UF* epdm  
\*BT1 elastomers  
*RT* rubbers

**ethylenecarboxylic acid**

USE acrylic acid

**ethylenediaminetetraacetic acid**

USE edta

**ethylmercaptoaminobutyric acid**

USE ethionine

**ethylthioaminobutyric acid**

USE ethionine

**ethyne**

USE acetylene

**ethyrene**

2000-04-12

(Prior to April 1994, this was a valid *ETDE* descriptor.)

USE organic sulfur compounds  
USE radioprotective substances

**ethyreneethyl phosphinate**

2000-04-12

USE organic sulfur compounds  
USE radioprotective substances

**ETIOLOGY**

*Dealing with all causes of a disease or abnormal condition of an organism.*

*RT* diseases

**etioporphyryns**

2000-04-12

(Prior to September 1994, this was a valid *ETDE* descriptor.)

USE porphyrins

**ETR REACTOR**

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1981.*

*UF* engineering test reactor  
*UF* nrts-etr reactor  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**ETRC REACTOR**

2000-04-12

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1981.*

*UF* engineering test reactor critical facility  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 zero power reactors

**ETRR-1 REACTOR**

*INIS*: 1990-08-24; *ETDE*: 1990-09-10

*Atomic Energy Authority, Cairo, Egypt.*

*UF* egyptian testing research reactor-1  
\*BT1 research reactors  
\*BT1 tank type reactors

**ETRR-2 REACTOR**

1999-09-24

*Atomic Energy Authority, Cairo, Egypt.*

*UF* egyptian testing research reactor-2  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**ETTINGHAUSEN EFFECT**

*RT* hall effect

**EUCALYPTUSES**

*INIS*: 1978-01-13; *ETDE*: 1978-03-03

\*BT1 magnoliopsida  
\*BT1 trees

**euclidean quantum field theory**

*INIS*: 1977-11-21; *ETDE*: 1978-03-08

USE constructive field theory  
USE euclidean space

**EUCLIDEAN SPACE**

*UF* euclidean quantum field theory  
\*BT1 riemann space

**eudialyte**

*INIS*: 1997-01-28; *ETDE*: 1975-10-01

(Until October 1996 this was a valid descriptor.)

USE silicate minerals

**euflavine**

USE acriflavine

**EUGLENA**

\*BT1 euglenophycota  
\*BT1 mastigophora  
\*BT1 unicellular algae

**EUGLENOPHYCOTA**

*INIS*: 1991-12-13; *ETDE*: 1988-12-20

BT1 plants  
NT1 euglena

**EUMYCOTA**

*INIS*: 1996-11-13; *ETDE*: 1988-12-20

(The *UF* terms below were valid *ETDE* descriptors till March 1997.)

*UF* claviceps  
*UF* pellicularia  
*UF* phycomyces  
*UF* thielavia  
\*BT1 fungi  
NT1 aspergillus  
NT1 fusarium  
NT1 lichens  
NT1 mildew  
NT1 neurospora  
NT1 penicillium  
NT1 phanerochaete  
NT1 rhizopus  
NT1 trichoderma  
NT2 trichoderma viride  
NT1 ustilago  
NT1 yeasts  
NT2 candida  
NT2 saccharomyces  
NT3 saccharomyces cerevisiae  
NT2 torula

**EUPHORBIA**

*INIS*: 1997-06-17; *ETDE*: 1979-07-24

*Latex bearing plants and possible source of hydrocarbons.*

*UF* chinese tallow tree  
\*BT1 magnoliopsida  
NT1 castor  
NT1 milkweed  
NT1 rubber trees  
NT2 guayule  
NT2 hevea

**EURATOM**

UF *european atomic energy community*

\*BT1 european union

RT europe

**eurelios solar power plant**

INIS: 2000-04-12; ETDE: 1986-02-21

(Prior to September 1994, this was a valid ETDE descriptor.)

USE tower focus power plants

**EUREX PROCESS**

\*BT1 reprocessing

RT amines

RT solvent extraction

**EUROCHEMIC**

RT reprocessing

**eurocurrency**

INIS: 2000-04-12; ETDE: 1979-09-28

USE euromarket

**EURODIF**

INIS: 1975-11-11; ETDE: 1975-12-16

*International association founded in march 1972 to promote the construction of a European gaseous diffusion plant.*

BT1 international organizations

RT gaseous diffusion plants

**eurodollars**

INIS: 2000-04-12; ETDE: 1979-09-28

USE euromarket

**EUROMARKET**

INIS: 2000-04-12; ETDE: 1979-10-03

*Money on deposit and available for lending at financial institutions outside the country of the money's origin; beyond the control of any nation, it is mostly in hands of world's largest banks and free from reserve requirements and other national regulations.*

UF *eurocurrency*

UF *eurodollars*

RT capital

RT international cooperation

RT investment

**EUROPE**

1995-04-03

NT1 eastern europe

NT2 albania

NT2 belarus

NT2 bosnia and herzegovina

NT2 bulgaria

NT2 croatia

NT2 czech republic

NT2 estonia

NT2 hungary

NT2 latvia

NT2 lithuania

NT2 moldova

NT2 montenegro

NT2 poland

NT2 romania

NT2 russian federation

NT3 dubna

NT3 kamchatka

NT3 kurile islands

NT3 lovozero

NT3 novaya zemlya

NT3 siberia

NT2 serbia

NT2 slovakia

NT2 slovenia

NT2 the former yugoslav republic of macedonia

NT2 ukraine

NT3 crimea

NT1 western europe

NT2 austria

NT2 belgium

NT2 federal republic of germany

NT2 france

NT3 reunion island

NT2 greece

NT2 holy see

NT2 iceland

NT2 ireland

NT2 italy

NT3 appennines

NT3 sicily

NT2 luxembourg

NT2 malta

NT2 monaco

NT2 netherlands

NT2 portugal

NT3 azores islands

NT2 san marino

NT2 scandinavia

NT3 denmark

NT3 finland

NT3 norway

NT3 sweden

NT3 spain

NT3 canary islands

NT2 switzerland

NT2 united kingdom

RT euratom

RT european union

**european atomic energy community**

1999-07-08

USE euratom

**european coal and steel community**

USE ecsc

**european committee for standardization**

INIS: 2004-07-16; ETDE: 2002-10-02

USE cen

**european communities**

1997-01-28

(Until December 1994 this was a valid descriptor.)

USE european union

**european economic community**

USE internal market

**european muon collaboration effect**

INIS: 1993-11-08; ETDE: 1985-06-25

USE emc effect

**european nuclear energy agency**

1995-03-28

USE nea

**european organization for nuclear research**

USE cern

**european safeguard research development association**

INIS: 1993-11-08; ETDE: 1976-11-02

USE esarda

**european space agency**

INIS: 1982-04-13; ETDE: 1982-05-07

USE esa

**european space research organization**

1995-10-27

USE esa

**EUROPEAN SYNCHROTRON RADIATION FACILITY**

2000-09-08

*Grenoble, France.*

UF *esrf*

\*BT1 synchrotron radiation sources

**EUROPEAN UNION**

INIS: 1995-04-03; ETDE: 1994-10-20

(Until December 1994 this concept was indexed to EUROPEAN COMMUNITIES.)

UF *european communities*

BT1 international organizations

NT1 ecsc

NT1 euratom

NT1 internal market

RT europe

**EUROPIUM**

\*BT1 rare earths

**EUROPIUM 130**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 europium isotopes

\*BT1 microseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

**EUROPIUM 131**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 europium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

**EUROPIUM 132**

2007-01-30

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 europium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

**EUROPIUM 133**

2007-01-30

\*BT1 electron capture radioisotopes

\*BT1 europium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

**EUROPIUM 134**

INIS: 1989-10-27; ETDE: 1989-11-21

\*BT1 beta-plus decay radioisotopes

\*BT1 europium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

**EUROPIUM 135**

INIS: 1989-10-27; ETDE: 1989-11-21

\*BT1 beta-plus decay radioisotopes

\*BT1 europium isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**EUROPIUM 136**

INIS: 1986-04-02; ETDE: 1985-12-11

\*BT1 beta-plus decay radioisotopes

\*BT1 europium isotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**EUROPIUM 137**

INIS: 1988-04-15; ETDE: 1984-08-20

\*BT1 europium isotopes



- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 138**

*INIS: 1977-06-14; ETDE: 1977-10-20*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 139**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 140**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 141**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 142**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 143**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 144**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 145**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 146**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 147**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes

- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 148**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 149**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 150**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**EUROPIUM 151**

- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**EUROPIUM 151 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**EUROPIUM 152**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**EUROPIUM 152 TARGET**

*INIS: 1977-11-21; ETDE: 1977-12-22*

- BT1 targets

**EUROPIUM 153**

- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**EUROPIUM 153 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**EUROPIUM 154**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**EUROPIUM 154 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*

- BT1 targets

**EUROPIUM 155**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei

- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**EUROPIUM 155 TARGET**

*INIS: 1979-12-20; ETDE: 1980-01-24*

- BT1 targets

**EUROPIUM 156**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 157**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 158**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 159**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 160**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 161**

*INIS: 1986-10-29; ETDE: 1986-11-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 162**

*INIS: 1987-08-27; ETDE: 1987-10-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 163**

*2007-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 164**

*2007-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 165**

*2007-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 166**

2007-01-30

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 167**

2007-01-30

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM ADDITIONS**

*Alloys containing not more than 1% Eu are listed here.*

- \*BT1 europium alloys
- \*BT1 rare earth additions

**EUROPIUM ALLOYS**

*Alloys containing more than 1% Eu.*

- \*BT1 rare earth alloys
- NT1 europium additions
- NT1 europium base alloys

**EUROPIUM ARSENIDES**

*INIS: 1989-09-14; ETDE: 1976-08-24*

- \*BT1 arsenides
- \*BT1 europium compounds

**EUROPIUM BASE ALLOYS**

- \*BT1 europium alloys

**EUROPIUM BORIDES**

- \*BT1 borides
- \*BT1 europium compounds

**EUROPIUM BROMIDES**

- \*BT1 bromides
- \*BT1 europium compounds

**EUROPIUM CARBIDES**

- \*BT1 carbides
- \*BT1 europium compounds

**EUROPIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 europium compounds

**EUROPIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 europium compounds

**EUROPIUM COMPLEXES**

- \*BT1 rare earth complexes

**EUROPIUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 europium arsenides
- NT1 europium borides
- NT1 europium bromides
- NT1 europium carbides
- NT1 europium carbonates
- NT1 europium chlorides
- NT1 europium fluorides
- NT1 europium hydrides
- NT1 europium hydroxides
- NT1 europium iodides
- NT1 europium nitrates
- NT1 europium nitrides
- NT1 europium oxides
- NT1 europium perchlorates
- NT1 europium phosphates
- NT1 europium phosphides
- NT1 europium selenides
- NT1 europium silicates
- NT1 europium silicides
- NT1 europium sulfates
- NT1 europium sulfides
- NT1 europium tellurides

**EUROPIUM FLUORIDES**

- \*BT1 europium compounds
- \*BT1 fluorides

**EUROPIUM HYDRIDES**

- \*BT1 europium compounds
- \*BT1 hydrides

**EUROPIUM HYDROXIDES**

- \*BT1 europium compounds
- \*BT1 hydroxides

**EUROPIUM IODIDES**

- \*BT1 europium compounds
- \*BT1 iodides

**EUROPIUM IONS**

- \*BT1 ions

**EUROPIUM ISOTOPES**

- BT1 isotopes
- NT1 europium 130
- NT1 europium 131
- NT1 europium 132
- NT1 europium 133
- NT1 europium 134
- NT1 europium 135
- NT1 europium 136
- NT1 europium 137
- NT1 europium 138
- NT1 europium 139
- NT1 europium 140
- NT1 europium 141
- NT1 europium 142
- NT1 europium 143
- NT1 europium 144
- NT1 europium 145
- NT1 europium 146
- NT1 europium 147
- NT1 europium 148
- NT1 europium 149
- NT1 europium 150
- NT1 europium 151
- NT1 europium 152
- NT1 europium 153
- NT1 europium 154
- NT1 europium 155
- NT1 europium 156
- NT1 europium 157
- NT1 europium 158
- NT1 europium 159
- NT1 europium 160
- NT1 europium 161
- NT1 europium 162
- NT1 europium 163
- NT1 europium 164
- NT1 europium 165
- NT1 europium 166
- NT1 europium 167

**EUROPIUM NITRATES**

- \*BT1 europium compounds
- \*BT1 nitrates

**EUROPIUM NITRIDES**

- \*BT1 europium compounds
- \*BT1 nitrides

**EUROPIUM OXIDES**

- \*BT1 europium compounds
- \*BT1 oxides

**EUROPIUM PERCHLORATES**

*INIS: 1991-09-16; ETDE: 1975-10-28*

- \*BT1 europium compounds
- \*BT1 perchlorates

**EUROPIUM PHOSPHATES**

*INIS: 1975-10-23; ETDE: 1975-12-16*

- \*BT1 europium compounds
- \*BT1 phosphates

**EUROPIUM PHOSPHIDES**

*INIS: 1983-10-14; ETDE: 1977-11-28*

- \*BT1 europium compounds
- \*BT1 phosphides

**EUROPIUM SELENIDES**

*INIS: 1976-10-29; ETDE: 1975-09-11*

- \*BT1 europium compounds
- \*BT1 selenides

**EUROPIUM SILICATES**

- \*BT1 europium compounds
- \*BT1 silicates

**EUROPIUM SILICIDES**

*INIS: 1975-10-29; ETDE: 1975-12-16*

- \*BT1 europium compounds
- \*BT1 silicides

**EUROPIUM SULFATES**

- \*BT1 europium compounds
- \*BT1 sulfates

**EUROPIUM SULFIDES**

- \*BT1 europium compounds
- \*BT1 sulfides

**EUROPIUM TELLURIDES**

*INIS: 1976-05-05; ETDE: 1975-09-11*

- \*BT1 europium compounds
- \*BT1 tellurides

**EUTECTICS**

- RT monotectics
- RT phase change materials
- RT phase diagrams
- RT phase transformations

**EUTECTOIDS**

- RT monotectoids
- RT phase diagrams
- RT phase transformations

**EUTERPE STORAGE RING**

*INIS: 1992-10-19; ETDE: 1992-11-04*

*Eindhoven University of Technology ring for protons and electrons.*

- BT1 storage rings

**EUTROPHICATION**

*INIS: 1975-12-17; ETDE: 1976-08-24*

- RT algae
- RT aquatic ecosystems
- RT estuaries
- RT fertilizers
- RT lakes
- RT limnology
- RT nutrients
- RT water pollution

**euxenite**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE uranium minerals

**EV RANGE**

- BT1 energy range
- NT1 ev range 01-10
- NT1 ev range 10-100
- NT1 ev range 100-1000

**EV RANGE 01-10**

- \*BT1 ev range

**EV RANGE 10-100**

- \*BT1 ev range

**EV RANGE 100-1000**

- \*BT1 ev range

**EVACUATED COLLECTORS**

*INIS: 2000-04-12; ETDE: 1978-03-08*

- \*BT1 solar collectors

**NT1** evacuated tube collectors

## EVACUATED TUBE COLLECTORS

*INIS: 2000-04-12; ETDE: 1978-03-08*

**\*BT1** evacuated collectors

## EVACUATION

*INIS: 1997-06-17; ETDE: 1983-03-23*

*An organized withdrawal of people from a place or area as a protective measure.*

*RT* accidents  
*RT* civil defense  
*RT* emergency plans  
*RT* external zones  
*RT* mine rescue  
*RT* population relocation  
*RT* routing

## EVALUATED DATA

*INIS: 1978-10-20; ETDE: 1979-02-27*

*Use only in conjunction with literary indicator N for data flagging; refers to data gathered from other sources and may consist of a compilation of data which, however, has been evaluated and some judgement as to its accuracy or value is expressed or implied.*

*UF* data compilation (evaluated)  
**\*BT1** numerical data  
*RT* nuclear data collections

## evaluated nuclear data file

*INIS: 1994-07-01; ETDE: 1983-03-23*

**USE** nuclear data collections

## EVALUATION

*INIS: 1995-04-09; ETDE: 1976-06-07*

*Process of subjecting to critical judgement or interpretation.*

**NT1** comparative evaluations  
*RT* audits  
*RT* feasibility studies  
*RT* forecasting  
*RT* inspection  
*RT* quality assurance  
*RT* testing  
*RT* validation

## EVANS BLUE

**\*BT1** azo dyes  
**BT1** reagents  
**\*BT1** sulfonic acids

## EVAPORATION

*UF* vaporization  
*UF* volatilization  
**BT1** phase transformations  
**NT1** flashing  
**NT1** sublimation  
**NT1** vacuum evaporation  
*RT* blowoff  
*RT* boiling  
*RT* dehydration  
*RT* distillation  
*RT* drying  
*RT* evaporative cooling  
*RT* evaporators  
*RT* flash heating  
*RT* interception  
*RT* spray drying  
*RT* throughfall  
*RT* transpiration  
*RT* vaporization heat  
*RT* vapors  
*RT* waste processing

## EVAPORATION MODEL

*UF* nuclear evaporation  
**\*BT1** nuclear models  
**NT1** weiskopf model  
*RT* compound-nucleus reactions  
*RT* nuclear fireball model  
*RT* nuclear temperature

*RT* precompound-nucleus emission

## EVAPORATIVE COOLING

*INIS: 1976-09-06; ETDE: 1975-10-01*

*Cooling of a liquid by using the vaporization heat of part of the liquid or cooling air by evaporating water into it.*

**BT1** cooling  
*RT* cold storage  
*RT* cooling systems  
*RT* cooling towers  
*RT* evaporation

## EVAPORATORS

**NT1** solar stills  
*RT* counterflow systems  
*RT* crossflow systems  
*RT* desalination  
*RT* distillation  
*RT* dryers  
*RT* evaporation  
*RT* heat exchangers  
*RT* vapor condensers

## EVAPORITES

*INIS: 1984-04-04; ETDE: 1981-07-06*

**\*BT1** sedimentary rocks  
*RT* halite

## EVEN-EVEN NUCLEI

*1996-06-17*

*Even protons, even neutrons.*

**BT1** nuclei  
**NT1** argon 30  
**NT1** argon 32  
**NT1** argon 34  
**NT1** argon 36  
**NT1** argon 38  
**NT1** argon 40  
**NT1** argon 42  
**NT1** argon 44  
**NT1** argon 46  
**NT1** argon 48  
**NT1** argon 50  
**NT1** argon 52  
**NT1** barium 114  
**NT1** barium 116  
**NT1** barium 118  
**NT1** barium 120  
**NT1** barium 122  
**NT1** barium 124  
**NT1** barium 126  
**NT1** barium 128  
**NT1** barium 130  
**NT1** barium 132  
**NT1** barium 134  
**NT1** barium 136  
**NT1** barium 138  
**NT1** barium 140  
**NT1** barium 142  
**NT1** barium 144  
**NT1** barium 146  
**NT1** barium 148  
**NT1** barium 150  
**NT1** barium 152  
**NT1** beryllium 10  
**NT1** beryllium 12  
**NT1** beryllium 14  
**NT1** beryllium 16  
**NT1** beryllium 6  
**NT1** beryllium 8  
**NT1** cadmium 100  
**NT1** cadmium 102  
**NT1** cadmium 104  
**NT1** cadmium 106  
**NT1** cadmium 108  
**NT1** cadmium 110  
**NT1** cadmium 112  
**NT1** cadmium 114  
**NT1** cadmium 116

**NT1** cadmium 118  
**NT1** cadmium 120  
**NT1** cadmium 122  
**NT1** cadmium 124  
**NT1** cadmium 126  
**NT1** cadmium 128  
**NT1** cadmium 130  
**NT1** cadmium 132  
**NT1** cadmium 96  
**NT1** cadmium 98  
**NT1** calcium 34  
**NT1** calcium 36  
**NT1** calcium 38  
**NT1** calcium 40  
**NT1** calcium 42  
**NT1** calcium 44  
**NT1** calcium 46  
**NT1** calcium 48  
**NT1** calcium 50  
**NT1** calcium 52  
**NT1** calcium 54  
**NT1** calcium 56  
**NT1** calcium 58  
**NT1** calcium 60  
**NT1** californium 236  
**NT1** californium 238  
**NT1** californium 240  
**NT1** californium 242  
**NT1** californium 244  
**NT1** californium 246  
**NT1** californium 248  
**NT1** californium 250  
**NT1** californium 252  
**NT1** californium 254  
**NT1** californium 256  
**NT1** carbon 10  
**NT1** carbon 12  
**NT1** carbon 14  
**NT1** carbon 16  
**NT1** carbon 18  
**NT1** carbon 20  
**NT1** carbon 22  
**NT1** carbon 8  
**NT1** cerium 120  
**NT1** cerium 122  
**NT1** cerium 124  
**NT1** cerium 126  
**NT1** cerium 128  
**NT1** cerium 130  
**NT1** cerium 132  
**NT1** cerium 134  
**NT1** cerium 136  
**NT1** cerium 138  
**NT1** cerium 140  
**NT1** cerium 142  
**NT1** cerium 144  
**NT1** cerium 146  
**NT1** cerium 148  
**NT1** cerium 150  
**NT1** cerium 152  
**NT1** cerium 154  
**NT1** cerium 156  
**NT1** chromium 42  
**NT1** chromium 44  
**NT1** chromium 46  
**NT1** chromium 48  
**NT1** chromium 50  
**NT1** chromium 52  
**NT1** chromium 54  
**NT1** chromium 56  
**NT1** chromium 58  
**NT1** chromium 60  
**NT1** chromium 62  
**NT1** chromium 64  
**NT1** chromium 66  
**NT1** curium 232  
**NT1** curium 234  
**NT1** curium 236  
**NT1** curium 238

NT1	curium 240	NT1	germanium 68	NT1	lead 194
NT1	curium 242	NT1	germanium 70	NT1	lead 196
NT1	curium 244	NT1	germanium 72	NT1	lead 198
NT1	curium 246	NT1	germanium 74	NT1	lead 200
NT1	curium 248	NT1	germanium 76	NT1	lead 202
NT1	curium 250	NT1	germanium 78	NT1	lead 204
NT1	curium 252	NT1	germanium 80	NT1	lead 206
NT1	darmstadtium 270	NT1	germanium 82	NT1	lead 208
NT1	darmstadtium 272	NT1	germanium 84	NT1	lead 210
NT1	dysprosium 138	NT1	germanium 86	NT1	lead 212
NT1	dysprosium 140	NT1	germanium 88	NT1	lead 214
NT1	dysprosium 142	NT1	hafnium 154	NT1	lead 216
NT1	dysprosium 144	NT1	hafnium 156	NT1	magnesium 20
NT1	dysprosium 146	NT1	hafnium 158	NT1	magnesium 22
NT1	dysprosium 148	NT1	hafnium 160	NT1	magnesium 24
NT1	dysprosium 150	NT1	hafnium 162	NT1	magnesium 26
NT1	dysprosium 152	NT1	hafnium 164	NT1	magnesium 28
NT1	dysprosium 154	NT1	hafnium 166	NT1	magnesium 30
NT1	dysprosium 156	NT1	hafnium 168	NT1	magnesium 32
NT1	dysprosium 158	NT1	hafnium 170	NT1	magnesium 34
NT1	dysprosium 160	NT1	hafnium 172	NT1	magnesium 36
NT1	dysprosium 162	NT1	hafnium 174	NT1	magnesium 38
NT1	dysprosium 164	NT1	hafnium 176	NT1	magnesium 40
NT1	dysprosium 166	NT1	hafnium 178	NT1	mercury 172
NT1	dysprosium 168	NT1	hafnium 180	NT1	mercury 174
NT1	dysprosium 170	NT1	hafnium 182	NT1	mercury 176
NT1	dysprosium 172	NT1	hafnium 184	NT1	mercury 178
NT1	element 114 286	NT1	hafnium 186	NT1	mercury 180
NT1	element 114 288	NT1	hafnium 188	NT1	mercury 182
NT1	erbium 144	NT1	hassium 264	NT1	mercury 184
NT1	erbium 146	NT1	hassium 266	NT1	mercury 186
NT1	erbium 148	NT1	hassium 270	NT1	mercury 188
NT1	erbium 150	NT1	hassium 272	NT1	mercury 190
NT1	erbium 152	NT1	hassium 274	NT1	mercury 192
NT1	erbium 154	NT1	hassium 276	NT1	mercury 194
NT1	erbium 156	NT1	helium 10	NT1	mercury 196
NT1	erbium 158	NT1	helium 4	NT1	mercury 198
NT1	erbium 160	NT2	helium i	NT1	mercury 200
NT1	erbium 162	NT2	helium ii	NT1	mercury 202
NT1	erbium 164	NT1	helium 6	NT1	mercury 204
NT1	erbium 166	NT1	helium 8	NT1	mercury 206
NT1	erbium 168	NT1	iron 46	NT1	mercury 208
NT1	erbium 170	NT1	iron 48	NT1	mercury 210
NT1	erbium 172	NT1	iron 50	NT1	mercury 212
NT1	erbium 174	NT1	iron 52	NT1	molybdenum 100
NT1	erbium 176	NT1	iron 54	NT1	molybdenum 102
NT1	fermium 242	NT1	iron 56	NT1	molybdenum 104
NT1	fermium 244	NT1	iron 58	NT1	molybdenum 106
NT1	fermium 246	NT1	iron 60	NT1	molybdenum 108
NT1	fermium 248	NT1	iron 62	NT1	molybdenum 110
NT1	fermium 250	NT1	iron 64	NT1	molybdenum 112
NT1	fermium 252	NT1	iron 66	NT1	molybdenum 114
NT1	fermium 254	NT1	iron 68	NT1	molybdenum 84
NT1	fermium 256	NT1	iron 70	NT1	molybdenum 86
NT1	fermium 258	NT1	iron 72	NT1	molybdenum 88
NT1	fermium 260	NT1	krypton 100	NT1	molybdenum 90
NT1	gadolinium 134	NT1	krypton 70	NT1	molybdenum 92
NT1	gadolinium 136	NT1	krypton 72	NT1	molybdenum 94
NT1	gadolinium 138	NT1	krypton 74	NT1	molybdenum 96
NT1	gadolinium 140	NT1	krypton 76	NT1	molybdenum 98
NT1	gadolinium 142	NT1	krypton 78	NT1	neodymium 124
NT1	gadolinium 144	NT1	krypton 80	NT1	neodymium 126
NT1	gadolinium 146	NT1	krypton 82	NT1	neodymium 128
NT1	gadolinium 148	NT1	krypton 84	NT1	neodymium 130
NT1	gadolinium 150	NT1	krypton 86	NT1	neodymium 132
NT1	gadolinium 152	NT1	krypton 88	NT1	neodymium 134
NT1	gadolinium 154	NT1	krypton 90	NT1	neodymium 136
NT1	gadolinium 156	NT1	krypton 92	NT1	neodymium 138
NT1	gadolinium 158	NT1	krypton 94	NT1	neodymium 140
NT1	gadolinium 160	NT1	krypton 96	NT1	neodymium 142
NT1	gadolinium 162	NT1	krypton 98	NT1	neodymium 144
NT1	gadolinium 164	NT1	lead 178	NT1	neodymium 146
NT1	gadolinium 166	NT1	lead 180	NT1	neodymium 148
NT1	gadolinium 168	NT1	lead 182	NT1	neodymium 150
NT1	germanium 58	NT1	lead 184	NT1	neodymium 152
NT1	germanium 60	NT1	lead 186	NT1	neodymium 154
NT1	germanium 62	NT1	lead 188	NT1	neodymium 156
NT1	germanium 64	NT1	lead 190	NT1	neodymium 158
NT1	germanium 66	NT1	lead 192	NT1	neodymium 160

---

NT1	neon 16	NT1	platinum 168	NT1	radon 216
NT1	neon 18	NT1	platinum 170	NT1	radon 218
NT1	neon 20	NT1	platinum 172	NT1	radon 220
NT1	neon 22	NT1	platinum 174	NT1	radon 222
NT1	neon 24	NT1	platinum 176	NT1	radon 224
NT1	neon 26	NT1	platinum 178	NT1	radon 226
NT1	neon 28	NT1	platinum 180	NT1	radon 228
NT1	neon 30	NT1	platinum 182	NT1	ruthenium 100
NT1	neon 32	NT1	platinum 184	NT1	ruthenium 102
NT1	neon 34	NT1	platinum 186	NT1	ruthenium 104
NT1	nickel 48	NT1	platinum 188	NT1	ruthenium 106
NT1	nickel 50	NT1	platinum 190	NT1	ruthenium 108
NT1	nickel 52	NT1	platinum 192	NT1	ruthenium 110
NT1	nickel 54	NT1	platinum 194	NT1	ruthenium 112
NT1	nickel 56	NT1	platinum 196	NT1	ruthenium 114
NT1	nickel 58	NT1	platinum 198	NT1	ruthenium 116
NT1	nickel 60	NT1	platinum 200	NT1	ruthenium 118
NT1	nickel 62	NT1	platinum 202	NT1	ruthenium 120
NT1	nickel 64	NT1	platinum 204	NT1	ruthenium 88
NT1	nickel 66	NT1	platinum 206	NT1	ruthenium 90
NT1	nickel 68	NT1	platinum 208	NT1	ruthenium 92
NT1	nickel 70	NT1	plutonium 228	NT1	ruthenium 94
NT1	nickel 72	NT1	plutonium 230	NT1	ruthenium 96
NT1	nickel 74	NT1	plutonium 232	NT1	ruthenium 98
NT1	nickel 76	NT1	plutonium 234	NT1	rutherfordium 254
NT1	nickel 78	NT1	plutonium 236	NT1	rutherfordium 256
NT1	nobelium 248	NT1	plutonium 238	NT1	rutherfordium 258
NT1	nobelium 250	NT1	plutonium 240	NT1	rutherfordium 260
NT1	nobelium 252	NT1	plutonium 242	NT1	rutherfordium 262
NT1	nobelium 254	NT1	plutonium 244	NT1	rutherfordium 264
NT1	nobelium 256	NT1	plutonium 246	NT1	rutherfordium 266
NT1	nobelium 258	NT1	plutonium 248	NT1	rutherfordium 268
NT1	nobelium 260	NT1	plutonium 250	NT1	samarium 128
NT1	nobelium 262	NT1	polonium 186	NT1	samarium 130
NT1	nobelium 264	NT1	polonium 188	NT1	samarium 132
NT1	osmium 162	NT1	polonium 190	NT1	samarium 134
NT1	osmium 164	NT1	polonium 192	NT1	samarium 136
NT1	osmium 166	NT1	polonium 194	NT1	samarium 138
NT1	osmium 168	NT1	polonium 196	NT1	samarium 140
NT1	osmium 170	NT1	polonium 198	NT1	samarium 142
NT1	osmium 172	NT1	polonium 200	NT1	samarium 144
NT1	osmium 174	NT1	polonium 202	NT1	samarium 146
NT1	osmium 176	NT1	polonium 204	NT1	samarium 148
NT1	osmium 178	NT1	polonium 206	NT1	samarium 150
NT1	osmium 180	NT1	polonium 208	NT1	samarium 152
NT1	osmium 182	NT1	polonium 210	NT1	samarium 154
NT1	osmium 184	NT1	polonium 212	NT1	samarium 156
NT1	osmium 186	NT1	polonium 214	NT1	samarium 158
NT1	osmium 188	NT1	polonium 216	NT1	samarium 160
NT1	osmium 190	NT1	polonium 218	NT1	samarium 162
NT1	osmium 192	NT1	polonium 220	NT1	samarium 164
NT1	osmium 194	NT1	radium 202	NT1	seaborgium 258
NT1	osmium 196	NT1	radium 204	NT1	seaborgium 260
NT1	oxygen 12	NT1	radium 206	NT1	seaborgium 262
NT1	oxygen 14	NT1	radium 208	NT1	seaborgium 264
NT1	oxygen 16	NT1	radium 210	NT1	seaborgium 266
NT1	oxygen 18	NT1	radium 212	NT1	seaborgium 268
NT1	oxygen 20	NT1	radium 214	NT1	seaborgium 270
NT1	oxygen 22	NT1	radium 216	NT1	seaborgium 272
NT1	oxygen 24	NT1	radium 218	NT1	selenium 64
NT1	oxygen 26	NT1	radium 220	NT1	selenium 66
NT1	oxygen 28	NT1	radium 222	NT1	selenium 68
NT1	palladium 100	NT1	radium 224	NT1	selenium 70
NT1	palladium 102	NT1	radium 226	NT1	selenium 72
NT1	palladium 104	NT1	radium 228	NT1	selenium 74
NT1	palladium 106	NT1	radium 230	NT1	selenium 76
NT1	palladium 108	NT1	radium 232	NT1	selenium 78
NT1	palladium 110	NT1	radium 234	NT1	selenium 80
NT1	palladium 112	NT1	radon 194	NT1	selenium 82
NT1	palladium 114	NT1	radon 196	NT1	selenium 84
NT1	palladium 116	NT1	radon 198	NT1	selenium 86
NT1	palladium 118	NT1	radon 200	NT1	selenium 88
NT1	palladium 120	NT1	radon 202	NT1	silicon 22
NT1	palladium 122	NT1	radon 204	NT1	silicon 24
NT1	palladium 124	NT1	radon 206	NT1	silicon 26
NT1	palladium 92	NT1	radon 208	NT1	silicon 28
NT1	palladium 94	NT1	radon 210	NT1	silicon 30
NT1	palladium 96	NT1	radon 212	NT1	silicon 32
NT1	palladium 98	NT1	radon 214	NT1	silicon 34

NT1 silicon 36  
 NT1 silicon 38  
 NT1 silicon 40  
 NT1 silicon 42  
 NT1 silicon 44  
 NT1 strontium 100  
 NT1 strontium 102  
 NT1 strontium 104  
 NT1 strontium 74  
 NT1 strontium 76  
 NT1 strontium 78  
 NT1 strontium 80  
 NT1 strontium 82  
 NT1 strontium 84  
 NT1 strontium 86  
 NT1 strontium 88  
 NT1 strontium 90  
 NT1 strontium 92  
 NT1 strontium 94  
 NT1 strontium 96  
 NT1 strontium 98  
 NT1 sulfur 24  
 NT1 sulfur 26  
 NT1 sulfur 28  
 NT1 sulfur 30  
 NT1 sulfur 32  
 NT1 sulfur 34  
 NT1 sulfur 36  
 NT1 sulfur 38  
 NT1 sulfur 40  
 NT1 sulfur 42  
 NT1 sulfur 44  
 NT1 sulfur 46  
 NT1 sulfur 48  
 NT1 tellurium 106  
 NT1 tellurium 108  
 NT1 tellurium 110  
 NT1 tellurium 112  
 NT1 tellurium 114  
 NT1 tellurium 116  
 NT1 tellurium 118  
 NT1 tellurium 120  
 NT1 tellurium 122  
 NT1 tellurium 124  
 NT1 tellurium 126  
 NT1 tellurium 128  
 NT1 tellurium 130  
 NT1 tellurium 132  
 NT1 tellurium 134  
 NT1 tellurium 136  
 NT1 tellurium 138  
 NT1 tellurium 140  
 NT1 tellurium 142  
 NT1 thorium 208  
 NT1 thorium 210  
 NT1 thorium 212  
 NT1 thorium 214  
 NT1 thorium 216  
 NT1 thorium 218  
 NT1 thorium 220  
 NT1 thorium 224  
 NT1 thorium 226  
 NT1 thorium 228  
 NT1 thorium 230  
 NT1 thorium 232  
 NT1 thorium 234  
 NT1 thorium 236  
 NT1 thorium 238  
 NT1 tin 100  
 NT1 tin 102  
 NT1 tin 104  
 NT1 tin 106  
 NT1 tin 108  
 NT1 tin 110  
 NT1 tin 112  
 NT1 tin 114  
 NT1 tin 116  
 NT1 tin 118  
 NT1 tin 120

NT1 tin 122  
 NT1 tin 124  
 NT1 tin 126  
 NT1 tin 128  
 NT1 tin 130  
 NT1 tin 132  
 NT1 tin 134  
 NT1 tin 136  
 NT1 titanium 38  
 NT1 titanium 40  
 NT1 titanium 42  
 NT1 titanium 44  
 NT1 titanium 46  
 NT1 titanium 48  
 NT1 titanium 50  
 NT1 titanium 52  
 NT1 titanium 54  
 NT1 titanium 56  
 NT1 titanium 58  
 NT1 titanium 60  
 NT1 titanium 62  
 NT1 tungsten 158  
 NT1 tungsten 160  
 NT1 tungsten 162  
 NT1 tungsten 164  
 NT1 tungsten 166  
 NT1 tungsten 168  
 NT1 tungsten 170  
 NT1 tungsten 172  
 NT1 tungsten 174  
 NT1 tungsten 176  
 NT1 tungsten 178  
 NT1 tungsten 180  
 NT1 tungsten 182  
 NT1 tungsten 184  
 NT1 tungsten 186  
 NT1 tungsten 188  
 NT1 tungsten 190  
 NT1 tungsten 192  
 NT1 uranium 218  
 NT1 uranium 220  
 NT1 uranium 222  
 NT1 uranium 224  
 NT1 uranium 226  
 NT1 uranium 228  
 NT1 uranium 230  
 NT1 uranium 232  
 NT1 uranium 234  
 NT1 uranium 236  
 NT1 uranium 238  
 NT1 uranium 240  
 NT1 uranium 242  
 NT1 xenon 110  
 NT1 xenon 112  
 NT1 xenon 114  
 NT1 xenon 116  
 NT1 xenon 118  
 NT1 xenon 120  
 NT1 xenon 122  
 NT1 xenon 124  
 NT1 xenon 126  
 NT1 xenon 128  
 NT1 xenon 130  
 NT1 xenon 132  
 NT1 xenon 134  
 NT1 xenon 136  
 NT1 xenon 138  
 NT1 xenon 140  
 NT1 xenon 142  
 NT1 xenon 144  
 NT1 xenon 146  
 NT1 ytterbium 148  
 NT1 ytterbium 150  
 NT1 ytterbium 152  
 NT1 ytterbium 154  
 NT1 ytterbium 156  
 NT1 ytterbium 158  
 NT1 ytterbium 160  
 NT1 ytterbium 162

NT1 ytterbium 164  
 NT1 ytterbium 166  
 NT1 ytterbium 168  
 NT1 ytterbium 170  
 NT1 ytterbium 172  
 NT1 ytterbium 174  
 NT1 ytterbium 176  
 NT1 ytterbium 178  
 NT1 ytterbium 180  
 NT1 zinc 54  
 NT1 zinc 56  
 NT1 zinc 58  
 NT1 zinc 60  
 NT1 zinc 62  
 NT1 zinc 64  
 NT1 zinc 66  
 NT1 zinc 68  
 NT1 zinc 70  
 NT1 zinc 72  
 NT1 zinc 74  
 NT1 zinc 76  
 NT1 zinc 78  
 NT1 zinc 80  
 NT1 zinc 82  
 NT1 zirconium 100  
 NT1 zirconium 102  
 NT1 zirconium 104  
 NT1 zirconium 106  
 NT1 zirconium 108  
 NT1 zirconium 110  
 NT1 zirconium 78  
 NT1 zirconium 80  
 NT1 zirconium 82  
 NT1 zirconium 84  
 NT1 zirconium 86  
 NT1 zirconium 88  
 NT1 zirconium 90  
 NT1 zirconium 92  
 NT1 zirconium 94  
 NT1 zirconium 96  
 NT1 zirconium 98  
 RT nuclear structure

## EVEN-ODD NUCLEI

1998-01-27

*Even protons, odd neutrons.*

BT1 nuclei  
 NT1 argon 31  
 NT1 argon 33  
 NT1 argon 35  
 NT1 argon 37  
 NT1 argon 39  
 NT1 argon 41  
 NT1 argon 43  
 NT1 argon 45  
 NT1 argon 47  
 NT1 argon 49  
 NT1 argon 51  
 NT1 argon 53  
 NT1 barium 115  
 NT1 barium 117  
 NT1 barium 119  
 NT1 barium 121  
 NT1 barium 123  
 NT1 barium 125  
 NT1 barium 127  
 NT1 barium 129  
 NT1 barium 131  
 NT1 barium 133  
 NT1 barium 135  
 NT1 barium 137  
 NT1 barium 139  
 NT1 barium 141  
 NT1 barium 143  
 NT1 barium 145  
 NT1 barium 147  
 NT1 barium 149  
 NT1 barium 151  
 NT1 barium 153

NT1	beryllium 11	NT1	chromium 53	NT1	gadolinium 145
NT1	beryllium 13	NT1	chromium 55	NT1	gadolinium 147
NT1	beryllium 15	NT1	chromium 57	NT1	gadolinium 149
NT1	beryllium 5	NT1	chromium 59	NT1	gadolinium 151
NT1	beryllium 7	NT1	chromium 61	NT1	gadolinium 153
NT1	beryllium 9	NT1	chromium 63	NT1	gadolinium 155
NT1	cadmium 101	NT1	chromium 65	NT1	gadolinium 157
NT1	cadmium 103	NT1	chromium 67	NT1	gadolinium 159
NT1	cadmium 105	NT1	curium 233	NT1	gadolinium 161
NT1	cadmium 107	NT1	curium 235	NT1	gadolinium 163
NT1	cadmium 109	NT1	curium 237	NT1	gadolinium 165
NT1	cadmium 111	NT1	curium 239	NT1	gadolinium 167
NT1	cadmium 113	NT1	curium 241	NT1	gadolinium 169
NT1	cadmium 115	NT1	curium 243	NT1	germanium 59
NT1	cadmium 117	NT1	curium 245	NT1	germanium 61
NT1	cadmium 119	NT1	curium 247	NT1	germanium 63
NT1	cadmium 121	NT1	curium 249	NT1	germanium 65
NT1	cadmium 123	NT1	curium 251	NT1	germanium 67
NT1	cadmium 125	NT1	darmstadtium 267	NT1	germanium 69
NT1	cadmium 127	NT1	darmstadtium 269	NT1	germanium 71
NT1	cadmium 129	NT1	darmstadtium 271	NT1	germanium 73
NT1	cadmium 131	NT1	darmstadtium 273	NT1	germanium 75
NT1	cadmium 95	NT1	darmstadtium 279	NT1	germanium 77
NT1	cadmium 97	NT1	darmstadtium 281	NT1	germanium 79
NT1	cadmium 99	NT1	dysprosium 139	NT1	germanium 81
NT1	calcium 35	NT1	dysprosium 141	NT1	germanium 83
NT1	calcium 37	NT1	dysprosium 143	NT1	germanium 85
NT1	calcium 39	NT1	dysprosium 145	NT1	germanium 87
NT1	calcium 41	NT1	dysprosium 147	NT1	germanium 89
NT1	calcium 43	NT1	dysprosium 149	NT1	hafnium 153
NT1	calcium 45	NT1	dysprosium 151	NT1	hafnium 155
NT1	calcium 47	NT1	dysprosium 153	NT1	hafnium 157
NT1	calcium 49	NT1	dysprosium 155	NT1	hafnium 159
NT1	calcium 51	NT1	dysprosium 157	NT1	hafnium 161
NT1	calcium 53	NT1	dysprosium 159	NT1	hafnium 163
NT1	calcium 55	NT1	dysprosium 161	NT1	hafnium 165
NT1	calcium 57	NT1	dysprosium 163	NT1	hafnium 167
NT1	californium 237	NT1	dysprosium 165	NT1	hafnium 169
NT1	californium 239	NT1	dysprosium 167	NT1	hafnium 171
NT1	californium 241	NT1	dysprosium 169	NT1	hafnium 173
NT1	californium 243	NT1	dysprosium 171	NT1	hafnium 175
NT1	californium 245	NT1	dysprosium 173	NT1	hafnium 177
NT1	californium 247	NT1	element 112 277	NT1	hafnium 179
NT1	californium 249	NT1	element 112 283	NT1	hafnium 181
NT1	californium 251	NT1	element 114 285	NT1	hafnium 183
NT1	californium 253	NT1	element 114 287	NT1	hafnium 185
NT1	californium 255	NT1	element 114 289	NT1	hafnium 187
NT1	carbon 11	NT1	erbium 143	NT1	hassium 263
NT1	carbon 13	NT1	erbium 145	NT1	hassium 265
NT1	carbon 15	NT1	erbium 147	NT1	hassium 267
NT1	carbon 17	NT1	erbium 149	NT1	hassium 269
NT1	carbon 19	NT1	erbium 151	NT1	hassium 271
NT1	carbon 21	NT1	erbium 153	NT1	hassium 275
NT1	carbon 9	NT1	erbium 155	NT1	helium 3
NT1	cerium 119	NT1	erbium 157	NT2	helium 3 a
NT1	cerium 121	NT1	erbium 159	NT2	helium 3 a1
NT1	cerium 123	NT1	erbium 161	NT2	helium 3 b
NT1	cerium 125	NT1	erbium 163	NT1	helium 5
NT1	cerium 127	NT1	erbium 165	NT1	helium 7
NT1	cerium 129	NT1	erbium 167	NT1	helium 9
NT1	cerium 131	NT1	erbium 169	NT1	iron 45
NT1	cerium 133	NT1	erbium 171	NT1	iron 47
NT1	cerium 135	NT1	erbium 173	NT1	iron 49
NT1	cerium 137	NT1	erbium 175	NT1	iron 51
NT1	cerium 139	NT1	erbium 177	NT1	iron 53
NT1	cerium 141	NT1	fermium 243	NT1	iron 55
NT1	cerium 143	NT1	fermium 245	NT1	iron 57
NT1	cerium 145	NT1	fermium 247	NT1	iron 59
NT1	cerium 147	NT1	fermium 249	NT1	iron 61
NT1	cerium 149	NT1	fermium 251	NT1	iron 63
NT1	cerium 151	NT1	fermium 253	NT1	iron 65
NT1	cerium 153	NT1	fermium 255	NT1	iron 67
NT1	cerium 155	NT1	fermium 257	NT1	iron 69
NT1	cerium 157	NT1	fermium 259	NT1	iron 71
NT1	chromium 43	NT1	gadolinium 135	NT1	krypton 69
NT1	chromium 45	NT1	gadolinium 137	NT1	krypton 71
NT1	chromium 47	NT1	gadolinium 139	NT1	krypton 73
NT1	chromium 49	NT1	gadolinium 141	NT1	krypton 75
NT1	chromium 51	NT1	gadolinium 143	NT1	krypton 77

NT1	krypton 79	NT1	neodymium 125	NT1	palladium 105
NT1	krypton 81	NT1	neodymium 127	NT1	palladium 107
NT1	krypton 83	NT1	neodymium 129	NT1	palladium 109
NT1	krypton 85	NT1	neodymium 131	NT1	palladium 111
NT1	krypton 87	NT1	neodymium 133	NT1	palladium 113
NT1	krypton 89	NT1	neodymium 135	NT1	palladium 115
NT1	krypton 91	NT1	neodymium 137	NT1	palladium 117
NT1	krypton 93	NT1	neodymium 139	NT1	palladium 119
NT1	krypton 95	NT1	neodymium 141	NT1	palladium 121
NT1	krypton 97	NT1	neodymium 143	NT1	palladium 123
NT1	krypton 99	NT1	neodymium 145	NT1	palladium 91
NT1	lead 179	NT1	neodymium 147	NT1	palladium 93
NT1	lead 181	NT1	neodymium 149	NT1	palladium 95
NT1	lead 183	NT1	neodymium 151	NT1	palladium 97
NT1	lead 185	NT1	neodymium 153	NT1	palladium 99
NT1	lead 187	NT1	neodymium 155	NT1	platinum 169
NT1	lead 189	NT1	neodymium 157	NT1	platinum 171
NT1	lead 191	NT1	neodymium 159	NT1	platinum 173
NT1	lead 193	NT1	neodymium 161	NT1	platinum 175
NT1	lead 195	NT1	neon 17	NT1	platinum 177
NT1	lead 197	NT1	neon 19	NT1	platinum 179
NT1	lead 199	NT1	neon 21	NT1	platinum 181
NT1	lead 201	NT1	neon 23	NT1	platinum 183
NT1	lead 203	NT1	neon 25	NT1	platinum 185
NT1	lead 205	NT1	neon 27	NT1	platinum 187
NT1	lead 207	NT1	neon 29	NT1	platinum 189
NT1	lead 209	NT1	neon 31	NT1	platinum 191
NT1	lead 211	NT1	neon 33	NT1	platinum 193
NT1	lead 213	NT1	nickel 49	NT1	platinum 195
NT1	lead 215	NT1	nickel 51	NT1	platinum 197
NT1	magnesium 19	NT1	nickel 53	NT1	platinum 199
NT1	magnesium 21	NT1	nickel 55	NT1	platinum 201
NT1	magnesium 23	NT1	nickel 57	NT1	platinum 203
NT1	magnesium 25	NT1	nickel 59	NT1	platinum 205
NT1	magnesium 27	NT1	nickel 61	NT1	platinum 207
NT1	magnesium 29	NT1	nickel 63	NT1	plutonium 229
NT1	magnesium 31	NT1	nickel 65	NT1	plutonium 231
NT1	magnesium 33	NT1	nickel 67	NT1	plutonium 233
NT1	magnesium 35	NT1	nickel 69	NT1	plutonium 235
NT1	magnesium 37	NT1	nickel 71	NT1	plutonium 237
NT1	magnesium 39	NT1	nickel 73	NT1	plutonium 239
NT1	mercury 171	NT1	nickel 75	NT1	plutonium 241
NT1	mercury 173	NT1	nickel 77	NT1	plutonium 243
NT1	mercury 175	NT1	nobelium 251	NT1	plutonium 245
NT1	mercury 177	NT1	nobelium 253	NT1	plutonium 247
NT1	mercury 179	NT1	nobelium 255	NT1	polonium 187
NT1	mercury 181	NT1	nobelium 257	NT1	polonium 189
NT1	mercury 183	NT1	nobelium 259	NT1	polonium 191
NT1	mercury 185	NT1	nobelium 261	NT1	polonium 193
NT1	mercury 187	NT1	nobelium 263	NT1	polonium 195
NT1	mercury 189	NT1	osmium 163	NT1	polonium 197
NT1	mercury 191	NT1	osmium 165	NT1	polonium 199
NT1	mercury 193	NT1	osmium 167	NT1	polonium 201
NT1	mercury 195	NT1	osmium 169	NT1	polonium 203
NT1	mercury 197	NT1	osmium 171	NT1	polonium 205
NT1	mercury 199	NT1	osmium 173	NT1	polonium 207
NT1	mercury 201	NT1	osmium 175	NT1	polonium 209
NT1	mercury 203	NT1	osmium 177	NT1	polonium 211
NT1	mercury 205	NT1	osmium 179	NT1	polonium 213
NT1	mercury 207	NT1	osmium 181	NT1	polonium 215
NT1	mercury 209	NT1	osmium 183	NT1	polonium 217
NT1	mercury 211	NT1	osmium 185	NT1	polonium 219
NT1	molybdenum 101	NT1	osmium 187	NT1	radium 201
NT1	molybdenum 103	NT1	osmium 189	NT1	radium 203
NT1	molybdenum 105	NT1	osmium 191	NT1	radium 205
NT1	molybdenum 107	NT1	osmium 193	NT1	radium 207
NT1	molybdenum 109	NT1	osmium 195	NT1	radium 209
NT1	molybdenum 111	NT1	osmium 197	NT1	radium 211
NT1	molybdenum 113	NT1	osmium 199	NT1	radium 213
NT1	molybdenum 115	NT1	oxygen 13	NT1	radium 215
NT1	molybdenum 83	NT1	oxygen 15	NT1	radium 217
NT1	molybdenum 85	NT1	oxygen 17	NT1	radium 219
NT1	molybdenum 87	NT1	oxygen 19	NT1	radium 221
NT1	molybdenum 89	NT1	oxygen 21	NT1	radium 223
NT1	molybdenum 91	NT1	oxygen 23	NT1	radium 225
NT1	molybdenum 93	NT1	oxygen 25	NT1	radium 227
NT1	molybdenum 95	NT1	oxygen 27	NT1	radium 229
NT1	molybdenum 97	NT1	palladium 101	NT1	radium 231
NT1	molybdenum 99	NT1	palladium 103	NT1	radium 233



NT1 radon 193	NT1 selenium 87	NT1 tin 103
NT1 radon 195	NT1 selenium 89	NT1 tin 105
NT1 radon 197	NT1 selenium 91	NT1 tin 107
NT1 radon 199	NT1 silicon 23	NT1 tin 109
NT1 radon 201	NT1 silicon 25	NT1 tin 111
NT1 radon 203	NT1 silicon 27	NT1 tin 113
NT1 radon 205	NT1 silicon 29	NT1 tin 115
NT1 radon 207	NT1 silicon 31	NT1 tin 117
NT1 radon 209	NT1 silicon 33	NT1 tin 119
NT1 radon 211	NT1 silicon 35	NT1 tin 121
NT1 radon 213	NT1 silicon 37	NT1 tin 123
NT1 radon 215	NT1 silicon 39	NT1 tin 125
NT1 radon 217	NT1 silicon 41	NT1 tin 127
NT1 radon 219	NT1 silicon 43	NT1 tin 129
NT1 radon 221	NT1 strontium 101	NT1 tin 131
NT1 radon 223	NT1 strontium 103	NT1 tin 133
NT1 radon 225	NT1 strontium 105	NT1 tin 135
NT1 radon 227	NT1 strontium 73	NT1 tin 137
NT1 ruthenium 101	NT1 strontium 75	NT1 tin 99
NT1 ruthenium 103	NT1 strontium 77	NT1 titanium 39
NT1 ruthenium 105	NT1 strontium 79	NT1 titanium 41
NT1 ruthenium 107	NT1 strontium 81	NT1 titanium 43
NT1 ruthenium 109	NT1 strontium 83	NT1 titanium 45
NT1 ruthenium 111	NT1 strontium 85	NT1 titanium 47
NT1 ruthenium 113	NT1 strontium 87	NT1 titanium 49
NT1 ruthenium 115	NT1 strontium 89	NT1 titanium 51
NT1 ruthenium 117	NT1 strontium 91	NT1 titanium 53
NT1 ruthenium 119	NT1 strontium 93	NT1 titanium 55
NT1 ruthenium 87	NT1 strontium 95	NT1 titanium 57
NT1 ruthenium 89	NT1 strontium 97	NT1 titanium 59
NT1 ruthenium 91	NT1 strontium 99	NT1 titanium 61
NT1 ruthenium 93	NT1 sulfur 27	NT1 titanium 63
NT1 ruthenium 95	NT1 sulfur 29	NT1 tungsten 159
NT1 ruthenium 97	NT1 sulfur 31	NT1 tungsten 161
NT1 ruthenium 99	NT1 sulfur 33	NT1 tungsten 163
NT1 rutherfordium 253	NT1 sulfur 35	NT1 tungsten 165
NT1 rutherfordium 255	NT1 sulfur 37	NT1 tungsten 167
NT1 rutherfordium 257	NT1 sulfur 39	NT1 tungsten 169
NT1 rutherfordium 259	NT1 sulfur 41	NT1 tungsten 171
NT1 rutherfordium 261	NT1 sulfur 43	NT1 tungsten 173
NT1 rutherfordium 263	NT1 sulfur 45	NT1 tungsten 175
NT1 rutherfordium 265	NT1 sulfur 47	NT1 tungsten 177
NT1 rutherfordium 267	NT1 sulfur 49	NT1 tungsten 179
NT1 samarium 129	NT1 tellurium 105	NT1 tungsten 181
NT1 samarium 131	NT1 tellurium 107	NT1 tungsten 183
NT1 samarium 133	NT1 tellurium 109	NT1 tungsten 185
NT1 samarium 135	NT1 tellurium 111	NT1 tungsten 187
NT1 samarium 137	NT1 tellurium 113	NT1 tungsten 189
NT1 samarium 139	NT1 tellurium 115	NT1 tungsten 191
NT1 samarium 141	NT1 tellurium 117	NT1 uranium 217
NT1 samarium 143	NT1 tellurium 119	NT1 uranium 219
NT1 samarium 145	NT1 tellurium 121	NT1 uranium 221
NT1 samarium 147	NT1 tellurium 123	NT1 uranium 223
NT1 samarium 149	NT1 tellurium 125	NT1 uranium 225
NT1 samarium 151	NT1 tellurium 127	NT1 uranium 227
NT1 samarium 153	NT1 tellurium 129	NT1 uranium 229
NT1 samarium 155	NT1 tellurium 131	NT1 uranium 231
NT1 samarium 157	NT1 tellurium 133	NT1 uranium 233
NT1 samarium 159	NT1 tellurium 135	NT1 uranium 235
NT1 samarium 161	NT1 tellurium 137	NT1 uranium 237
NT1 samarium 163	NT1 tellurium 139	NT1 uranium 239
NT1 samarium 165	NT1 tellurium 141	NT1 uranium 241
NT1 seaborgium 259	NT1 thorium 209	NT1 xenon 109
NT1 seaborgium 261	NT1 thorium 211	NT1 xenon 111
NT1 seaborgium 263	NT1 thorium 213	NT1 xenon 113
NT1 seaborgium 265	NT1 thorium 215	NT1 xenon 115
NT1 seaborgium 271	NT1 thorium 217	NT1 xenon 117
NT1 seaborgium 273	NT1 thorium 219	NT1 xenon 119
NT1 selenium 65	NT1 thorium 221	NT1 xenon 121
NT1 selenium 67	NT1 thorium 222	NT1 xenon 123
NT1 selenium 69	NT1 thorium 223	NT1 xenon 125
NT1 selenium 71	NT1 thorium 225	NT1 xenon 127
NT1 selenium 73	NT1 thorium 227	NT1 xenon 129
NT1 selenium 75	NT1 thorium 229	NT1 xenon 131
NT1 selenium 77	NT1 thorium 231	NT1 xenon 132
NT1 selenium 79	NT1 thorium 233	NT1 xenon 133
NT1 selenium 81	NT1 thorium 235	NT1 xenon 135
NT1 selenium 83	NT1 thorium 237	NT1 xenon 137
NT1 selenium 85	NT1 tin 101	NT1 xenon 139

NT1 xenon 141  
 NT1 xenon 143  
 NT1 xenon 145  
 NT1 xenon 147  
 NT1 ytterbium 149  
 NT1 ytterbium 151  
 NT1 ytterbium 153  
 NT1 ytterbium 155  
 NT1 ytterbium 157  
 NT1 ytterbium 159  
 NT1 ytterbium 161  
 NT1 ytterbium 163  
 NT1 ytterbium 165  
 NT1 ytterbium 167  
 NT1 ytterbium 169  
 NT1 ytterbium 171  
 NT1 ytterbium 173  
 NT1 ytterbium 175  
 NT1 ytterbium 177  
 NT1 ytterbium 179  
 NT1 ytterbium 181  
 NT1 zinc 55  
 NT1 zinc 57  
 NT1 zinc 59  
 NT1 zinc 61  
 NT1 zinc 63  
 NT1 zinc 65  
 NT1 zinc 67  
 NT1 zinc 69  
 NT1 zinc 71  
 NT1 zinc 73  
 NT1 zinc 75  
 NT1 zinc 77  
 NT1 zinc 79  
 NT1 zinc 81  
 NT1 zinc 83  
 NT1 zirconium 101  
 NT1 zirconium 103  
 NT1 zirconium 105  
 NT1 zirconium 107  
 NT1 zirconium 109  
 NT1 zirconium 79  
 NT1 zirconium 81  
 NT1 zirconium 83  
 NT1 zirconium 85  
 NT1 zirconium 87  
 NT1 zirconium 89  
 NT1 zirconium 91  
 NT1 zirconium 93  
 NT1 zirconium 95  
 NT1 zirconium 97  
 NT1 zirconium 99  
 RT nuclear structure

**event tree analysis**

USE failure mode analysis

**events (chemical explosions)**

ETDE: 2002-06-13

See also under CHEMICAL EXPLOSIONS the list of specific chemical explosion events.

USE chemical explosions

**events (nuclear explosions)**

ETDE: 2002-06-13

See also under NUCLEAR EXPLOSIONS the list of specific named nuclear events.

USE nuclear explosions

**EVERGLADES NATIONAL PARK**

INIS: 1992-06-04; ETDE: 1975-10-28

SF parks

BT1 public lands

RT florida

RT swamps

**EVOLUTION**

INIS: 2000-04-12; ETDE: 1978-02-14

A process of development, as from a simple to a complex form.

NT1 biological evolution

NT1 galactic evolution

NT1 mathematical evolution

NT1 solar system evolution

NT1 star evolution

NT2 r process

NT2 s process

NT2 star accretion

**EVSU REACTOR**

2000-04-12

Vallecitos, California, USA.

UF vallecitos reactor

\*BT1 enriched uranium reactors

\*BT1 power reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**EWA REACTOR**

Inst. of Nuclear Research, Swierk, Poland.

UF swierk ewa reactor

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**EWG-1 REACTOR**

INIS: 2003-11-26; ETDE: 2003-12-03

National Nuclear Center of the Republic of Kazakhstan, Kurchatov city, East Kazakhstan.

UF ewg-1m reactor

UF iwg-1m reactor

UF kazakhstan ewg-1 reactor

\*BT1 beryllium moderated reactors

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 gas cooled reactors

\*BT1 materials testing reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**ewg-1m reactor**

INIS: 2003-11-26; ETDE: 2003-12-03

Kurchatov city, East Kazakhstan.

USE ewg-1 reactor

**EXACT SOLUTIONS**

INIS: 2003-06-19; ETDE: 2003-07-29

BT1 mathematical solutions

RT functions

RT mathematical models

RT series expansion

**EXAWATT POWER RANGE**

INIS: 2003-08-15; ETDE: 2002-09-17

From 10 exp 18 to 10 exp 21 W.

BT1 power range

NT1 power range 01-10 ew

NT1 power range 10-100 ew

NT1 power range 100-1000 ew

**EXCAVATION**

NT1 nuclear excavation

RT cavities

RT construction

RT craters

RT draglines

RT dredging

RT earthmoving equipment

RT explosions

RT mining

RT nuclear explosions

RT shaft excavations

RT slope stability

RT subterrene penetrators

RT surface mining

RT tunneling machines

RT tunnels

RT underground mining

**excavators**

INIS: 1983-06-30; ETDE: 1978-05-03

USE earthmoving equipment

**EXCEPTIONAL NATURAL DISASTER**

INIS: 1999-02-24; ETDE: 2002-01-30

In the legal sense when so declared by the competent authority in relation to compensation for damages.

UF disaster (exceptional natural)

UF natural disaster (exceptional)

BT1 natural disasters

RT earthquakes

RT floods

RT liabilities

RT victims compensation

**EXCEPTIONS**

INIS: 2000-04-12; ETDE: 1979-12-10

SF exemptions

BT1 administrative procedures

**excess costs**

INIS: 2000-04-12; ETDE: 1983-03-23

(Prior to April 1994, this was a valid ETDE descriptor.)

USE cost

**exchange (charge)**

USE charge exchange

**exchange (electron)**

USE electron exchange

**exchange (heat)**

USE heat transfer

**exchange (ion)**

USE ion exchange

**exchange (isotopic)**

USE isotopic exchange

**EXCHANGE DEGENERACY**

RT regge poles

**EXCHANGE INTERACTIONS**

Not for chemical reactions.

BT1 interactions

RT cim model

RT morrison rule

RT quark-hadron interactions

RT spin exchange

**exchange models**

USE peripheral models

**exchange rate**

INIS: 1992-07-23; ETDE: 1984-09-21

USE foreign exchange rate

**EXCIMER LASERS**

INIS: 1997-06-17; ETDE: 1984-05-08

Lasers whose lasing medium is a dimer that exists in the excited state and dissociates in the ground state.

\*BT1 gas lasers

NT1 krypton chloride lasers

NT1 krypton fluoride lasers

**EXCISION REPAIR**

1995-01-10

\*BT1 dna repair

**EXCITATION**

*Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state.*

UF core polarization (nuclei)

BT1 energy-level transitions

NT1 collective excitations

NT1 coulomb excitation

NT1 inner-shell excitation

RT activation energy

RT chemical activation

RT de-excitation

RT electron beam pumping

RT excited states

RT fission barrier

RT optical pumping

**EXCITATION FUNCTIONS**

1999-05-19

(Prior to July 1996 GERJUOY-STEIN THEORY was a valid ETDE descriptor.)

SF gerjuoy-stein theory

\*BT1 differential cross sections

BT1 functions

RT energy dependence

RT integral cross sections

RT nuclear reactions

RT total cross sections

**EXCITATION SYSTEMS**

INIS: 2000-04-12; ETDE: 1978-04-05

*Equipment for providing field current for an a-c generator or similar device.*

UF exciters

RT control equipment

RT electric currents

RT electric fields

RT electric generators

RT electrical equipment

**EXCITED STATES**

BT1 energy levels

NT1 metastable states

NT1 rotational states

NT1 rydberg states

NT1 vibrational states

RT excitation

**exciters**

INIS: 2000-04-12; ETDE: 1978-04-05

USE excitation systems

**EXCITON MODEL**

INIS: 1982-01-13; ETDE: 1979-05-09

\*BT1 nuclear models

**EXCITONS**

UF biexcitons

BT1 quasi particles

RT electron-hole droplets

**exclusion principle**

USE pauli principle

**exclusions (liability)**

INIS: 1976-12-08; ETDE: 1994-08-10

USE liability exclusions

**EXCLUSIVE INTERACTIONS**

*The group of all interactions of two particles producing a specific final state but excluding the final-state particle itself.*

\*BT1 particle interactions

NT1 semi-exclusive interactions

RT inclusive interactions

**exclusive liability**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

USE liabilities

**EXCRETION**

UF excretion analysis

BT1 clearance

NT1 exhalation

NT1 lung clearance

NT1 renal clearance

RT biological wastes

RT body fluids

RT feces

RT glands

RT glucuronide conjugates

RT glutathione conjugates

RT kidneys

RT large intestine

RT lavage

RT phagocytosis

RT physiology

RT radionuclide kinetics

RT retention

RT secretion

RT sweat

RT urinary tract

RT urine

**excretion analysis**

USE excretion

USE personnel monitoring

**excretion functions**

USE retention functions

**EXCURSIONS**

UF power excursions

UF runaway (reactor accident)

\*BT1 reactor accidents

RT hazards

RT reactors

**EXECUTIVE CODES**

INIS: 1988-11-16; ETDE: 1983-08-25

*A digital computer code that controls other codes, allocates storage to these codes and controls the servicing of peripheral devices.*

UF monitor codes

UF operating systems (computer)

UF supervisor codes

BT1 computer codes

RT memory management

RT programming

RT task scheduling

**EXECUTIVE ORDERS**

INIS: 2000-04-12; ETDE: 1983-05-21

RT laws

RT legal aspects

RT regulations

**exemptions**

INIS: 2000-04-12; ETDE: 1980-11-25

SEE exceptions

**EXERCISE**

UF physical effort

UF swimming

RT biological fatigue

RT biological stress

RT muscles

**EXERGY**

INIS: 1980-02-26; ETDE: 1980-03-29

*That portion of energy which is converted into the desired, economically utilizable form.*

BT1 energy

RT thermodynamics

**EXHALATION**

\*BT1 excretion

RT breath

RT lung clearance

**exhaust gas recirculation systems**

INIS: 1992-07-07; ETDE: 1976-01-07

USE exhaust recirculation systems

**EXHAUST GASES**

1991-10-24

SF emissions (industrial)

\*BT1 gaseous wastes

\*BT1 gases

RT afterburners

RT automobiles

RT catalytic converters

RT combustion products

RT emissions tax

RT emissions trading

RT exhaust recirculation systems

RT exhaust systems

RT federal test procedure

RT internal combustion engines

**EXHAUST RECIRCULATION SYSTEMS**

INIS: 1992-07-07; ETDE: 1976-01-07

UF egr systems

UF exhaust gas recirculation systems

BT1 exhaust systems

\*BT1 pollution control equipment

RT air pollution control

RT automobiles

RT combustion

RT exhaust gases

**EXHAUST SYSTEMS**

INIS: 1983-03-15; ETDE: 1977-03-08

NT1 exhaust recirculation systems

RT afterburners

RT air pollution

RT chimneys

RT divertors

RT exhaust gases

RT ventilation

**EXHIBITS**

INIS: 1993-06-07; ETDE: 1979-05-31

RT educational facilities

RT educational tools

**EXINITE**

INIS: 2000-04-12; ETDE: 1987-07-24

UF liptinite

BT1 macerals

**EXO-ELECTRON DOSEMETERS**

\*BT1 dosimeters

**EXO-ELECTRONS**

\*BT1 electrons

**EXONS**

INIS: 1995-06-09; ETDE: 1995-05-05

RT dna

RT gene regulation

RT genes

RT introns

RT messenger-rna

RT splicing

**EXOSKELETON**

\*BT1 skeleton

RT echinoderms

**EXOSPHERE**

BT1 earth atmosphere

**exotic atoms**

USE hadronic atoms

**EXOTIC RESONANCES**

*Resonance states not accommodated by the naive quark model.*

\*BT1 resonance particles

**EXPANSION**

*Increase in size or volume, not for the concept covered by SERIES EXPANSION.*

- NT1 plasma expansion
- NT1 thermal expansion
- RT augmentation
- RT contraction
- RT cosmological models
- RT elongation
- RT hubble effect
- RT solar wind
- RT swelling

**EXPANSION CHAMBERS**

- \*BT1 cloud chambers

**EXPANSION JOINTS**

*INIS: 1975-10-09; ETDE: 1975-12-16*

- BT1 joints
- RT bellows
- RT contraction
- RT pipe fittings
- RT pipe joints
- RT thermal expansion

**EXPECTATION VALUE**

- RT eigenfunctions
- RT eigenvalues
- RT probability
- RT quantum mechanics
- RT statistics

**EXPENDITURES**

*INIS: 1992-04-09; ETDE: 1981-07-06*

- UF federal expenditures
- UF government spending
- UF spending
- RT budgets
- RT capital
- RT cost
- RT economics
- RT financing

**experience critique orgel**

- USE eco reactor

**EXPERIMENT PLANNING**

*INIS: 1985-12-10; ETDE: 1975-09-11*

- BT1 planning
- RT demonstration programs
- RT research programs

**experimental advanced****superconducting tokamak**

*2006-07-25*

- USE ht-7u tokamak

**experimental beryllium oxide reactor**

*1993-11-08*

- USE ebor reactor

**experimental boiling water reactor**

*2000-04-12*

- USE ebwr reactor

**experimental breeder reactor-1**

*2000-04-12*

- USE ebr-1 reactor

**experimental breeder reactor-2**

*2000-04-12*

- USE ebr-2 reactor

**EXPERIMENTAL CHANNELS**

- UF irradiation channels
- \*BT1 reactor channels
- \*BT1 reactor experimental facilities
- RT in pile loops
- RT irradiation capsules

**EXPERIMENTAL DATA**

*INIS: 1978-10-20; ETDE: 1979-02-27*

*Use only in conjunction with literary indicator*

*N for data flagging.*

- \*BT1 numerical data

- RT benchmarks

**experimental facilities (accelerator)**

*1993-11-08*

- USE accelerator facilities

**experimental facilities (reactor)**

*INIS: 2000-04-12; ETDE: 1977-03-04*

- USE reactor experimental facilities

**experimental gas cooled reactor**

*2000-04-12*

- USE egcr reactor

**experimental graphite reactor**

*INIS: 2003-11-26; ETDE: 2003-12-03*

*Kurchatov city, East Kazakhstan.*

- USE igr reactor

**EXPERIMENTAL NEOPLASMS**

*1999-07-08*

- UF jensen sarcoma
- UF walker carcinoma
- UF yoshida sarcoma
- \*BT1 neoplasms
- NT1 ehrlich ascites tumor
- RT leukemia viruses

**experimental organic cooled reactor**

*2000-04-12*

- USE eocr reactor

**experimental propulsion test reactor**

*1993-11-08*

- SEE tory-2a reactor
- SEE tory-2c reactor

**EXPERIMENTAL REACTORS**

*1998-01-29*

*For engineering testing of reactor components such as fuel elements, cooling systems, etc.*

- UF lcre reactor
- UF lithium cooled reactor experiment
- \*BT1 research and test reactors
- NT1 aps reactor
- NT1 arbus reactor
- NT1 atrc reactor
- NT1 bilibin reactor
- NT1 bor-60 reactor
- NT1 borax-1 reactor
- NT1 borax-2 reactor
- NT1 borax-3 reactor
- NT1 borax-4 reactor
- NT1 br-3-vn reactor
- NT1 cefr reactor
- NT1 cesar reactor
- NT1 dfr reactor
- NT1 dragon reactor
- NT1 ebr-1 reactor
- NT1 ebr-2 reactor
- NT1 ebwr reactor
- NT1 egcr reactor
- NT1 el-1 reactor
- NT1 eocr reactor
- NT1 esada-vesr reactor
- NT1 ewg-1 reactor
- NT1 gcre reactor
- NT1 hbwr reactor
- NT1 hdr reactor
- NT1 hre-2 reactor
- NT1 htr-10 reactor
- NT1 httr reactor
- NT1 igr reactor
- NT1 ir-100 reactor
- NT1 joyo reactor
- NT1 jpdr reactor
- NT1 jules horowitz reactor
- NT1 kiwi-tnt reactor
- NT1 knk-2 reactor
- NT1 knk reactor
- NT1 lampre-1 reactor
- NT1 mh-1a reactor
- NT1 mir reactor
- NT1 msre reactor
- NT1 nrx-a1 reactor
- NT1 nrx-a2 reactor
- NT1 nrx-a3 reactor
- NT1 nrx-a4-est reactor
- NT1 nrx-a5 reactor
- NT1 nrx-a6 reactor
- NT1 nrx-a7 reactor
- NT1 omre reactor
- NT1 opal reactor
- NT1 rover reactors
- NT1 sefor reactor
- NT1 spert-1 reactor
- NT1 spert-2 reactor
- NT1 spert-3 reactor
- NT1 spert-4 reactor
- NT1 sre reactor
- NT1 subcritical assemblies
- NT2 pse reactor
- NT2 stsf assembly
- NT1 topaz reactor
- NT1 tory-2a reactor
- NT1 tory-2c reactor
- NT1 treat reactor
- NT1 tz1 reactor
- NT1 tz2 reactor
- NT1 uhtrex reactor
- NT1 venus reactor
- NT1 vhtr reactor
- NT1 xe-2 reactor
- NT1 xe-prime reactor
- NT1 xma-1 reactor
- NT1 zero power reactors
- NT2 agata reactor
- NT2 akr-1 reactor
- NT2 anex reactor
- NT2 anna reactor
- NT2 apfa-3 reactor
- NT2 aquilon reactor
- NT2 bfs reactor
- NT2 big ten reactor
- NT2 cfimf reactor
- NT2 cml reactor
- NT2 coral-1 reactor
- NT2 crocus reactor
- NT2 dca reactor
- NT2 dimple reactor
- NT2 ecel reactor
- NT2 ermine reactor
- NT2 etrc reactor
- NT2 fca reactor
- NT2 flattop reactor
- NT2 fr-0 reactor
- NT2 godiva reactor
- NT2 hero reactor
- NT2 hitrex-1 reactor
- NT2 horace reactor
- NT2 hwzpr reactor
- NT2 iea-zpr reactor
- NT2 ifr reactor
- NT2 ipen-mb-1 reactor
- NT2 jezebel reactor
- NT2 juno reactor
- NT2 kahter reactor
- NT2 kbr-1 reactor
- NT2 kritz reactor
- NT2 kuca reactor
- NT2 lptf reactor
- NT2 lr-0 reactor
- NT2 lvr-15 reactor
- NT2 marius reactor
- NT2 maryla reactor

NT2 masurca reactor  
 NT2 minerve reactor  
 NT2 neptune reactor  
 NT2 nsf-rfp reactor  
 NT2 or-cef reactor  
 NT2 orn1-pca reactor  
 NT2 parka reactor  
 NT2 pdp reactor  
 NT2 peggy reactor  
 NT2 pelinduna reactor  
 NT2 plasma core assembly  
 NT2 prcf reactor  
 NT2 ptf-unc reactor  
 NT2 purnima-2 reactor  
 NT2 purnima reactor  
 NT2 r-b reactor  
 NT2 ra-0 reactor  
 NT2 ra-2 reactor  
 NT2 ra-8 reactor  
 NT2 rake-2 reactor  
 NT2 rb-1 reactor  
 NT2 rb-3 reactor  
 NT2 renselaer critical facility  
 NT2 ritmo reactor  
 NT2 rospo reactor  
 NT2 saref reactor  
 NT2 shca reactor  
 NT2 silene reactor  
 NT2 siloette reactor  
 NT2 sneak reactor  
 NT2 split table reactor  
 NT2 sr-0a reactor  
 NT2 stacy reactor  
 NT2 tca reactor  
 NT2 tr-0 reactor  
 NT2 tracy reactor  
 NT2 vera reactor  
 NT2 zebra reactor  
 NT2 zeep reactor  
 NT2 zenith reactor  
 NT2 zephyr reactor  
 NT2 zerlina reactor  
 NT2 zlfr reactor  
 NT2 zpr reactor  
 NT2 zpr-3 reactor  
 NT2 zpr-6 reactor  
 NT2 zpr-9 reactor  
 NT2 zpr reactor  
 NT2 zr-6 reactor  
 NT1 zrr reactor

### **experimental very high temperature gas cooled reactor**

*INIS: 1978-01-16; ETDE: 2002-06-13*  
 USE vht reactor

### **EXPERT SYSTEMS**

*INIS: 1986-09-26; ETDE: 1985-09-24*  
*Computer programs comprising a knowledge-based component, constructed from an expert skill, operating in such a way that the system can offer intelligent advice or make an intelligent decision about a processing function.*

RT artificial intelligence  
 RT data processing  
 RT knowledge base  
 RT machine translations  
 RT neural networks  
 RT programming

### **EXPLODING WIRES**

BT1 wires  
 RT detonators

### **exploitation**

2000-03-27  
 SEE resource exploitation

### **EXPLORATION**

NT1 geothermal exploration  
 RT aerial prospecting  
 RT electrical surveys  
 RT exploratory wells  
 RT geochemical surveys  
 RT geologic surveys  
 RT geophysical surveys  
 RT landsat satellites  
 RT magnetic surveys  
 RT petroleum geology  
 RT prospecting  
 RT radiometric surveys  
 RT remote sensing  
 RT resource potential

### **EXPLORATORY WELLS**

*INIS: 1992-07-08; ETDE: 1979-01-30*

UF test wells  
 BT1 wells  
 RT boreholes  
 RT exploration  
 RT geothermal exploration  
 RT geothermal wells  
 RT natural gas wells  
 RT oil wells  
 RT well drilling

### **EXPLORER SATELLITES**

BT1 satellites

### **EXPLOSION WELDING**

\*BT1 welding

### **EXPLOSIONS**

(From February 1975 until March 1996 DETONATIONS was a valid ETDE descriptor.)

UF blasts  
 UF detonations  
 NT1 atmospheric explosions  
   NT2 ranger project  
   NT2 trinity event  
 NT1 chemical explosions  
 NT1 cratering explosions  
   NT2 sedan event  
 NT1 nuclear explosions  
   NT2 anvil project  
   NT2 arbor project  
   NT2 bedrock project  
   NT2 castle project  
   NT2 crossroads project  
   NT2 crosstie operation  
     NT3 gasbuggy event  
   NT2 dominic project  
   NT2 greenhouse project  
   NT2 grommet operation  
   NT2 hardtack project  
   NT2 latchkey operation  
   NT2 mandrel operation  
   NT2 nougat operation  
   NT2 plumbbob project  
   NT2 praetorian project  
   NT2 ranger project  
   NT2 sandstone project  
   NT2 sun beam operation  
   NT2 thermonuclear explosions  
   NT2 toggle operation  
     NT3 rio blanco event  
   NT2 trinity event  
   NT2 whetstone operation  
 NT1 surface explosions  
 NT1 underground explosions  
   NT2 arbor project  
   NT2 contained explosions  
   NT2 crosstie operation  
     NT3 gasbuggy event  
   NT2 grommet operation  
   NT2 latchkey operation  
   NT2 mandrel operation

NT2 nougat operation  
 NT2 sun beam operation  
 NT2 toggle operation  
   NT3 rio blanco event  
 NT2 whetstone operation  
 NT1 underwater explosions  
 RT accidents  
 RT blast effects  
 RT combustion waves  
 RT detonation waves  
 RT detonators  
 RT excavation  
 RT fires  
 RT implosions  
 RT molten metal-water reactions  
 RT natural disasters  
 RT seismic events  
 RT shock waves  
 RT spontaneous combustion

### **EXPLOSIVE FORMING**

\*BT1 materials working

### **EXPLOSIVE FRACTURING**

*INIS: 1995-09-08; ETDE: 1976-04-19*

UF blasting  
 UF shotfiring  
 UF solfrac process  
 BT1 fracturing  
 RT chemical explosions  
 RT fractures  
 RT mining  
 RT nuclear explosions  
 RT underground explosions

### **EXPLOSIVE INSTABILITY**

\*BT1 plasma instability

### **EXPLOSIVE STIMULATION**

*The use of chemical-or nuclear-explosive fracturing to increase reservoir production.*

UF stimulation (explosive)  
 UF well shooting  
 \*BT1 well stimulation  
 RT chemical explosions  
 RT chimneys  
 RT enhanced recovery  
 RT nuclear explosions  
 RT oil shales  
 RT underground explosions

### **explosively-driven mhd generators**

*INIS: 2000-04-12; ETDE: 1977-05-07*  
 USE pulsed mhd generators

### **EXPLOSIVES**

(From January 1975 till March 1997 PROPELLANTS was a valid ETDE descriptor.)

SF propellants  
 NT1 chemical explosives  
   NT2 dynamite  
   NT2 nitrocellulose  
   NT2 nitroglycerin  
   NT2 nitromethane  
   NT2 petn  
   NT2 picric acid  
   NT2 tatb  
   NT2 tetryl  
   NT2 tnt  
 NT1 nuclear explosives  
 RT ammunition  
 RT guns

### **exponential piles**

USE subcritical assemblies

### **EXPORTS**

*INIS: 1991-12-10; ETDE: 1978-07-05*  
 BT1 trade  
 RT domestic supplies

RT foreign policy  
 RT imports  
 RT sales  
 RT tariffs

**exposure (radiation doses)**  
 USE radiation doses

**EXPOSURE CHAMBERS**  
 INIS: 1978-09-28; ETDE: 1977-10-20  
 UF atmospheric exposure chambers  
 UF environmental exposure chambers  
 UF inhalation exposure chambers  
 RT controlled atmospheres

**EXPOSURE RATEMETERS**  
 UF ratemeters (exposure)  
 \*BT1 radiation monitors  
 RT counting ratemeters  
 RT radiation monitoring

**EXTENDED PARTICLE MODEL**  
 \*BT1 particle models  
 NT1 bag model  
 NT1 string models  
 NT2 superstring models  
 RT solitons

**EXTENSIVE AIR SHOWERS**  
 \*BT1 cosmic showers  
 RT centauro-type events

**EXTENSOMETERS**  
 RT dilatometry  
 RT strain gages

**EXTERNAL CONVERSION**  
 BT1 conversion  
 RT energy levels

**EXTERNAL COST**  
 2004-09-03  
*Cost of a product or operation not included in the balance sheet but borne by society as a whole, such as health effects of environmental pollution.*  
 UF externalities  
 SF societal costs  
 BT1 cost  
 RT cost benefit analysis  
 RT life-cycle cost

**EXTERNAL IRRADIATION**  
 BT1 irradiation  
 NT1 extracorporeal irradiation  
 NT1 partial body irradiation  
 NT1 whole-body irradiation  
 RT irradiation devices  
 RT irradiation plants  
 RT irradiation procedures  
 RT local fallout  
 RT local irradiation  
 RT personnel dosimetry  
 RT radiation protection  
 RT radioactive clouds  
 RT shielding

**external magnetic fields**  
 INIS: 1976-01-28; ETDE: 2002-06-13  
 USE magnetic fields

**EXTERNAL RECEIVERS**  
 INIS: 2000-04-12; ETDE: 1982-02-08  
*Solar receivers with absorbers on the outside surface.*  
 BT1 solar receivers

**EXTERNAL ZONES**  
 INIS: 1984-05-28; ETDE: 1984-06-14  
*Areas immediately surrounding nuclear facility sites in which population distribution and density, and land and water uses, are*

*considered with respect to the possibility of implementing emergency measures.*  
 RT emergency plans  
 RT evacuation  
 RT land use  
 RT nuclear facilities  
 RT population relocation  
 RT reactor sites  
 RT routing  
 RT site selection  
 RT water use

**externalities**  
 2004-09-03  
 USE external cost

**extinguishment**  
 INIS: 2000-04-12; ETDE: 1976-01-26  
 USE inhibition

**EXTRACELLULAR SPACE**  
 1999-10-11  
 BT1 space  
 RT compartments  
 RT edema

**EXTRACORPOREAL IRRADIATION**  
*In vivo irradiation of organ, tissue or body fluid while outside the body.*  
 \*BT1 external irradiation  
 RT blood

**EXTRACTION**  
 1993-08-02  
 BT1 separation processes  
 NT1 deasphalting  
 NT1 reductive extraction  
 NT1 solvent extraction  
 NT2 phenosolvan process  
 NT2 supercritical gas extraction

**extraction (beam)**  
 USE beam extraction

**extraction (heat)**  
 INIS: 2000-04-12; ETDE: 1975-08-19  
 USE heat extraction

**extraction (solvent)**  
 USE solvent extraction

**EXTRACTION APPARATUSES**  
 UF centrifugal contactors  
 \*BT1 separation equipment  
 NT1 extraction columns  
 NT1 mist extractors  
 NT1 mixer-settlers  
 NT1 podbielniak contactors  
 RT coolant cleanup systems  
 RT entrainment  
 RT laboratory equipment  
 RT solvent extraction

**EXTRACTION CHROMATOGRAPHY**  
 \*BT1 chromatography

**EXTRACTION COLUMNS**  
 UF cascade (extraction)  
 UF chromatographic columns  
 UF columns (extraction)  
 UF pulse columns  
 UF towers (extraction)  
 \*BT1 extraction apparatuses  
 RT column packing

**EXTRACTIVE METALLURGY**  
 BT1 metallurgy  
 NT1 hydrometallurgy  
 NT1 pyrometallurgy  
 NT2 chloride volatility process  
 NT2 fluoride volatility process

RT electrometallurgy  
 RT refining

**extrahigh voltage ac systems**  
 INIS: 1993-01-18; ETDE: 2002-06-13  
 USE ehv ac systems

**extrahigh voltage alternating current systems**  
 INIS: 2000-04-12; ETDE: 1976-05-17  
 USE ehv ac systems

**extrahigh voltage dc systems**  
 INIS: 1992-03-09; ETDE: 2002-06-13  
 USE ehv dc systems

**extrahigh voltage direct current systems**  
 INIS: 2000-04-12; ETDE: 1976-05-17  
 USE ehv dc systems

**EXTRAP-T2 DEVICE**  
 INIS: 1999-07-26; ETDE: 1999-09-03  
*External Ring Trap, Royal Institute of Technology, Sweden.*  
 \*BT1 reversed-field pinch devices

**EXTRAPOLATION**  
 \*BT1 numerical solution  
 RT extrapolation length  
 RT interpolation  
 RT mathematics

**EXTRAPOLATION CHAMBERS**  
 \*BT1 dosimeters  
 \*BT1 ionization chambers

**EXTRAPOLATION LENGTH**  
 1999-07-20  
 \*BT1 length  
 RT extrapolation  
 RT neutron transport theory

**EXTREME ULTRAVIOLET RADIATION**  
*Wavelength range 400-100 Å.*  
 UF xuv  
 \*BT1 ultraviolet radiation  
 RT extreme ultraviolet spectra

**EXTREME ULTRAVIOLET SPECTRA**  
 INIS: 1989-09-14; ETDE: 1986-11-20  
 \*BT1 ultraviolet spectra  
 RT absorption spectroscopy  
 RT electronic structure  
 RT extreme ultraviolet radiation  
 RT structural chemical analysis

**EXTREME-VALUE PROBLEMS**  
 INIS: 1976-10-07; ETDE: 1976-11-01  
 RT mathematics

**extremely high frequency radiation**  
 1993-11-08  
 USE microwave radiation

**EXTRUSION**  
 \*BT1 materials working  
 NT1 coextrusion  
 RT cold working  
 RT dies  
 RT hot working  
 RT presses  
 RT pressing

**exxon donor solvent liquefaction**  
 INIS: 2000-04-12; ETDE: 1980-10-27  
 USE exxon liquefaction process

**EXXON FUEL FABRICATION FACILITY**

\*BT1 fuel fabrication plants

**EXXON GASIFICATION PROCESS**

*INIS: 2000-04-12; ETDE: 1976-09-14*  
Coal is reacted with steam in a fluidized-bed gasifier at 1500-1700 degrees F. To provide the necessary heat, a stream of circulating char is withdrawn from the gasifier and partially burned with air in a char heater to raise its temperature. The heated char is returned to the gasifier after separation from the flue gas. The product gas is a medium-btu gas suitable for methanation to sng.

\*BT1 coal gasification  
RT sng processes

**EXXON LIQUEFACTION PROCESS**

*INIS: 2000-04-12; ETDE: 1976-09-14*  
Crushed coal is slurried with a recycle solvent, preheated to about 800 degrees F, and then pumped into the liquefaction reactor operating at about 2,000 P.S.I. Preheated hydrogen is also added to the reactor. The product from the liquefaction reactor is sent to the separation step where gas, naphtha, recycle solvent, distillate, and heavy bottoms are separated by distillation.

UF eds liquefaction  
UF exxon donor solvent liquefaction  
\*BT1 coal liquefaction

**exxon nuclear facility**

*INIS: 2000-04-12; ETDE: 1980-04-14*  
SEE nuclear fuel recovery and recycling center

**exxon recovery and recycle plant**

*INIS: 1990-12-15; ETDE: 1984-05-09*  
(Prior to December 1990, this was a valid descriptor.)  
USE nuclear fuel recovery and recycling center

**eye cataracts**

USE cataracts

**EYES**

UF aqueous humor  
UF sclera  
\*BT1 face  
\*BT1 sense organs  
NT1 conjunctiva  
NT1 cornea  
NT1 crystalline lens  
NT1 lacrimal ducts  
NT1 retina  
NT1 uvula  
RT ophthalmology  
RT vision

**ezeiza argentine ra-3 reactor**

USE ra-3 reactor

**ezeiza argentine ra-4 reactor**

*INIS: 2002-08-13; ETDE: 2002-06-16*  
USE ra-4 reactor

**F-1 REACTOR**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
\*BT1 graphite moderated reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors

**f-1260 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE f2-1270 mesons

**f-1514 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE f2 prime-1525 mesons

**f-1540 resonances**

1988-03-08  
(Prior to December 1987 this was a valid descriptor.)  
USE mesons

**f-2030 resonances**

*INIS: 1985-01-17; ETDE: 1978-09-11*  
(This was a valid ETDE descriptor prior to January 1985.)  
USE d s mesons

**F CENTERS**

\*BT1 color centers

**F-CHART**

*INIS: 2000-04-12; ETDE: 1979-10-23*  
Performance measure used to determine fraction of total heating load provided by a particular solar collector.  
RT performance  
RT solar collectors  
RT solar heating systems  
RT solar water heaters

**F CODES**

BT1 computer codes

**f mesons**

*INIS: 1987-12-21; ETDE: 1985-02-07*  
(Prior to December 1987 this was a valid descriptor.)  
USE d s mesons

**F REGION**

\*BT1 ionosphere  
NT1 f1 layer  
NT1 f2 layer  
NT1 spread f  
RT ionospheric storms

**F STATES**

BT1 energy levels

**F WAVES**

BT1 partial waves  
RT angular momentum  
RT quantum mechanics

**f\*resonances**

*INIS: 1987-12-21; ETDE: 1978-09-11*  
(Prior to December 1987 this was a valid descriptor.)  
USE d\*s-2110 mesons

**F0-1240 MESONS**

*INIS: 1987-12-21; ETDE: 1988-01-28*  
\*BT1 scalar mesons

**F0-1300 MESONS**

*INIS: 1987-12-21; ETDE: 1988-01-29*  
\*BT1 scalar mesons

**F0-1590 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
\*BT1 scalar mesons

**F0-1730 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
\*BT1 scalar mesons

**f0-975 mesons**

*INIS: 1995-08-07; ETDE: 1988-01-25*  
(From December 1987 until July 1995 this was a valid term.)  
USE f0-980 mesons

**F0-980 MESONS**

1995-08-07  
(Until December 1987 this concept was indexed by S-993 RESONANCES; from then until July 1995 it was indexed by F0-975 MESONS.)  
UF f0-975 mesons  
UF s-993 resonances  
\*BT1 scalar mesons

**F1-1285 MESONS**

*INIS: 1987-12-21; ETDE: 1988-01-29*  
(Prior to December 1987 this concept was indexed by D-1285 RESONANCES.)  
UF d-1285 resonances  
\*BT1 axial vector mesons

**F1-1420 MESONS**

*INIS: 1987-12-21; ETDE: 1988-01-29*  
(Prior to December 1987 this concept was indexed by E-1422 RESONANCES.)  
UF e-1422 resonances  
\*BT1 axial vector mesons

**F1-1510 MESONS**

1995-08-07  
(Until July 1995 this concept was indexed by F1-1530 MESONS.)  
UF f1-1530 mesons  
\*BT1 axial vector mesons

**f1-1530 mesons**

*INIS: 1995-08-07; ETDE: 1988-02-01*  
(Until July 1995 this was a valid term.)  
USE f1-1510 mesons

**F1 LAYER**

\*BT1 f region

**F2-1270 MESONS**

*INIS: 1987-12-21; ETDE: 1988-01-28*  
(Prior to December 1987 this concept was indexed by F-1260 RESONANCES.)  
UF f-1260 resonances  
\*BT1 tensor mesons

**f2-1410 mesons**

*INIS: 1995-08-07; ETDE: 1988-01-29*  
(Until July 1995 this was a valid term.)  
USE f2-1430 mesons

**F2-1430 MESONS**

1995-08-07  
(Until July 1995 this concept was indexed by F2-1410 MESONS.)  
UF f2-1410 mesons  
\*BT1 tensor mesons

**f2-1525 mesons**

*INIS: 1995-08-07; ETDE: 1988-02-01*  
(From December 1987 until July 1995 this was a valid term.)  
USE f2 prime-1525 mesons

**F2-1720 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
(Prior to December 1987 this concept was indexed by THETA-1690 RESONANCES.)  
UF theta-1640 resonances  
UF theta-1690 resonances  
\*BT1 tensor mesons

**F2-1810 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
\*BT1 tensor mesons

**F2-2010 MESONS**

1995-07-17  
\*BT1 tensor mesons

**F2-2300 MESONS**

1995-07-17  
\*BT1 tensor mesons

**F2-2340 MESONS**

1995-07-17

\*BT1 tensor mesons

**F2 LAYER**

\*BT1 f region

**F2 PRIME-1525 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by F-1514 RESONANCES; from then until July 1995 it was indexed to F2-1525 MESONS.)

UF f-1514 resonances

UF f2-1525 mesons

\*BT1 strangeonium

\*BT1 tensor mesons

**f4-2030 mesons**

INIS: 1995-08-07; ETDE: 1988-02-01

(From December 1987 until July 1995 this was a valid term.)

USE f4-2050 mesons

**F4-2050 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by H-2050 RESONANCES; from then until July 1995 it was indexed by F4-2030 MESONS.)

UF f4-2030 mesons

UF h-2050 resonances

\*BT1 tensor mesons

**F4-2300 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by U-2375 RESONANCES.)

UF u-2375 resonances

\*BT1 tensor mesons

**F6-2510 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by R-2510 RESONANCES.)

UF r-2510 resonances

\*BT1 tensor mesons

**FABRIC FILTERS**

INIS: 1992-03-27; ETDE: 1978-10-23

BT1 filters

RT baghouses

RT dust collectors

RT pollution control equipment

**FABRICATION**

Limited to the concepts of shaping and manufacturing, use of a more specific term is recommended; for large scale building see CONSTRUCTION.

UF building (manufacturing)

NT1 casting

NT2 electrosag casting

NT2 slip casting

NT2 vacuum casting

NT1 compacting

NT1 granulation

NT1 joining

NT2 bonding

NT2 fastening

NT2 welding

NT3 arc welding

NT4 gas metal-arc welding

NT5 gas tungsten-arc welding

NT4 plasma arc welding

NT4 shielded metal-arc welding

NT4 submerged arc welding

NT3 brazing

NT3 diffusion welding

NT3 electron beam welding

NT3 electrosag welding

NT3 explosion welding

NT3 forge welding

NT3 friction welding

NT3 gas welding

NT3 induction welding

NT3 laser welding

NT3 magnetic force welding

NT3 resistance welding

NT4 flash welding

NT3 soldering

NT3 ultrasonic welding

NT3 vacuum welding

NT1 materials working

NT2 canning

NT2 cold working

NT3 shot peening

NT2 drawing

NT2 explosive forming

NT2 extrusion

NT3 coextrusion

NT2 forging

NT2 hot working

NT2 magnetic forming

NT2 pressing

NT3 cold pressing

NT3 hot pressing

NT2 rolling

NT2 swaging

NT2 thermomechanical treatments

NT1 molding

NT2 briquetting

NT2 pelletizing

NT1 sintering

RT computer-aided manufacturing

RT fuel fabrication plants

RT manufacturing

RT modular structures

RT production

**FABRY-PEROT INTERFEROMETER**

\*BT1 interferometers

**FACE**

\*BT1 head

NT1 eyes

NT2 conjunctiva

NT2 cornea

NT2 crystalline lens

NT2 lacrimal ducts

NT2 retina

NT2 uvea

NT1 nose

RT oral cavity

RT respirators

RT sinuses

**face centered cubic**

USE fcc lattices

**facilities (accelerator)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE accelerator facilities

**facilities (educational)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE educational facilities

**facilities (energy)**

INIS: 1994-10-13; ETDE: 1981-01-09

USE energy facilities

**facilities (maintenance)**

INIS: 2000-04-12; ETDE: 1981-06-13

USE maintenance facilities

**facilities (military)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE military facilities

**facilities (nuclear)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE nuclear facilities

**facilities (resource recovery)**

INIS: 1992-07-09; ETDE: 1981-01-09

USE resource recovery facilities

**facilities (sport)**

2004-09-17

USE sport facilities

**facilities (storage)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE storage facilities

**facilities (terminal)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE terminal facilities

**facilities (test)**

INIS: 1986-05-26; ETDE: 1981-01-09

USE test facilities

**facilities (underground)**

INIS: 1986-07-09; ETDE: 2002-06-13

USE underground facilities

**facilities (underwater)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE underwater facilities

**FACOM COMPUTERS**

INIS: 1985-11-16; ETDE: 1990-10-09

BT1 computers

**FACTORIZATION**

RT mathematics

**FACULAE**

\*BT1 solar activity

RT photosphere

RT plagues

**FADDEEV EQUATIONS**

BT1 equations

RT lippmann-schwinger equation

RT multiple scattering

RT three-body problem

**FAEROE ISLANDS**

UF faroe islands

BT1 islands

RT atlantic ocean

RT denmark

**FAILED ELEMENT DETECTION**

UF burst can detection

UF burst slug detection

UF detection (failed element)

UF fedal

BT1 detection

RT failed element monitors

RT fuel cans

RT fuel element failure

RT fuel elements

RT fuel motion detection

**FAILED ELEMENT MONITORS**

UF burst can monitors

UF burst slug monitors

UF monitors (failed elements)

\*BT1 monitors

RT failed element detection

RT fuel cans

RT fuel element failure

RT fuel elements

RT reactor monitoring systems

**FAILURE MODE ANALYSIS**

UF event tree analysis

\*BT1 system failure analysis

RT markov process



RT redundancy  
RT reliability

**failure propagation**

2003-10-21

SEE crack propagation  
SEE failures  
SEE system failure analysis

**FAILURES**

SF *failure propagation*  
NT1 fractures  
NT2 hydraulic fractures  
NT2 thermal fractures  
NT1 fuel element failure  
NT1 ruptures  
RT accidents  
RT amoeba effect  
RT corrosion  
RT damage  
RT electrical faults  
RT fatigue  
RT fracture properties  
RT hazards  
RT human factors  
RT impact shock  
RT leaks  
RT outages  
RT reliability  
RT safety  
RT systems analysis

**FALLOUT**

For radioactive fallout only.

UF *fallout particulates*  
UF *fragments (fallout)*  
NT1 fallout deposits  
NT1 global fallout  
NT1 local fallout  
NT1 washout  
RT accidents  
RT aerial monitoring  
RT aerosols  
RT air  
RT atmospheric precipitations  
RT contamination  
RT earth atmosphere  
RT fission products  
RT global aspects  
RT nuclear explosions  
RT nuclear weapons  
RT particle resuspension  
RT radiation hazards  
RT radiation protection  
RT radioactive aerosols  
RT radioactive clouds  
RT regional analysis  
RT residence half-time  
RT sedimentation  
RT sunshine project  
RT wind

**FALLOUT DEPOSITS**

BT1 fallout  
RT environment  
RT food chains  
RT radionuclide migration  
RT sedimentation  
RT soils

**fallout particulates**

USE fallout  
USE particles

**FALLOUT SHELTERS**

BT1 shelters  
RT earth-covered buildings  
RT local fallout  
RT radiation protection  
RT subsurface structures  
RT underground facilities

**FANO FACTOR**

BT1 dimensionless numbers  
RT ionization  
RT semiconductor materials

**fano-lichten model**

USE electron-promotion model

**fans**

USE blowers

**FAO**

UF *food and agriculture organization*  
BT1 international organizations  
RT agriculture  
RT agris  
RT food  
RT united nations

**FAR INFRARED RADIATION**

*Wavelength range 50-1000 microns.*

\*BT1 infrared radiation

**FAR ULTRAVIOLET RADIATION**

*Wavelength range 2000-400 Å.*

UF *vacuum ultraviolet radiation*

\*BT1 ultraviolet radiation

**faraday cages**

USE faraday cups

**FARADAY CUPS**

UF *faraday cages*  
\*BT1 beam monitors  
RT beam currents  
RT electric measuring instruments

**FARADAY CURRENT**

\*BT1 electric currents

**FARADAY EFFECT**

UF *faraday rotation*  
RT electromagnetic radiation  
RT magneto-optical effects  
RT polarization

**faraday generators**

USE mhd generators

**FARADAY INDUCTION**

BT1 induction

**FARADAY LAWS**

RT electrolysis

**FARADAY METHOD**

RT magnetic fields

**faraday rotation**

USE faraday effect

**FARLEY-1 REACTOR**

*Southern Nuclear Operating Co., Inc.,  
Dothan, Alabama, USA.*

UF *Joseph M. Farley-1 reactor*

\*BT1 pwr type reactors

**FARLEY-2 REACTOR**

*Southern Nuclear Operating Co., Inc.,  
Dothan, Alabama, USA.*

UF *Joseph M. Farley-2 reactor*

\*BT1 pwr type reactors

**farm animals**

USE domestic animals

**FARM EQUIPMENT**

*INIS: 2000-04-12; ETDE: 1977-06-21*

BT1 equipment  
RT farms  
RT harvesting equipment

**FARMS**

*INIS: 1992-09-01; ETDE: 1977-06-21*

RT agriculture  
RT biomass plantations  
RT cooperatives  
RT farm equipment  
RT land use

**faroe islands**

USE faeroe islands

**FASCIA**

\*BT1 connective tissue

**FASCIOLA**

\*BT1 trematodes  
RT fascioliasis

**FASCIOLIASIS**

\*BT1 parasitic diseases  
RT fasciola

**fast breeder blanket facility (fbbf)**

*INIS: 2000-04-12; ETDE: 1976-11-17*

USE subcritical assemblies

**fast breeder test reactor (kalpakkam)**

*INIS: 1993-11-08; ETDE: 2002-06-13*

USE kalpakkam Imfbr reactor

**fast breeder type reactors**

USE fbr type reactors

**fast burst reactor facility**

USE fbrf reactor

**fast experimental breeder reactor****japan**

*1993-11-08*

USE joyo reactor

**FAST FISSION**

\*BT1 fission  
\*BT1 neutron reactions  
RT fast fission factor  
RT fast neutrons

**FAST FISSION FACTOR**

BT1 dimensionless numbers  
RT fast fission  
RT fast reactors  
RT fission  
RT multiplication factors

**fast flux test facility**

*INIS: 1979-02-21; ETDE: 2002-06-13*

USE ftf reactor

**fast flux test facility reactor**

*2000-04-12*

USE ftf reactor

**FAST MAGNETOACOUSTIC WAVES**

\*BT1 magnetoacoustic waves  
RT transit-time magnetic pumping

**fast-mixed spectrum reactor**

*INIS: 2000-04-12; ETDE: 1981-11-10*

USE fbr type reactors  
USE mixed spectrum reactors

**FAST NEUTRONS**

\*BT1 neutrons  
RT fast fission  
RT fast reactors  
RT nirus facility

**fast prototype reactor japan**

*ETDE: 2002-06-13*

USE monju reactor

**fast reactor core test facility**

USE frctf reactor

**FAST REACTORS**

1995-12-08

SF 710 reactor

SF *fecl* reactor

\*BT1 epithermal reactors

NT1 actinide burner reactors

NT1 afsr reactor

NT1 aprf reactor

NT1 bfs reactor

NT1 bigr reactor

NT1 bir reactor

NT1 cefr reactor

NT1 cfmf reactor

NT1 clementine reactor

NT1 coral-1 reactor

NT1 ecel reactor

NT1 fbr type reactors

NT2 aipfr reactor

NT2 gcfr type reactors

NT3 gcfr reactor

NT2 kalpakkam pfr reactor

NT2 lmfr type reactors

NT3 beloyarsk-3 reactor

NT3 beloyarsk-4 reactor

NT3 bn-1600 reactor

NT3 bn-350 reactor

NT3 bn-800 reactor

NT3 bor-60 reactor

NT3 cdfr reactor

NT3 clinch river breeder reactor

NT3 dfr reactor

NT3 ebr-1 reactor

NT3 ebr-2 reactor

NT3 enrico fermi-1 reactor

NT3 joyo reactor

NT3 kalpakkam lmfr reactor

NT3 monju reactor

NT3 pfr reactor

NT3 phenix reactor

NT3 plbr reactor

NT3 rapsodie reactor

NT3 sbr-1 reactor

NT3 sbr-2 reactor

NT3 sbr-5 reactor

NT3 snr-2 reactor

NT3 snr reactor

NT3 super phenix reactor

NT2 pec brasimone reactor

NT2 zebra reactor

NT1 fbrf reactor

NT1 fca reactor

NT1 fftf reactor

NT1 fr-0 reactor

NT1 harmonie reactor

NT1 hprr reactor

NT1 ibr-2 reactor

NT1 ibr-30 reactor

NT1 ifr reactor

NT1 kalpakkam pfr reactor

NT1 kbr-1 reactor

NT1 knk-2 reactor

NT1 lampre-1 reactor

NT1 masurca reactor

NT1 purnima-2 reactor

NT1 purnima reactor

NT1 saref reactor

NT1 sefor reactor

NT1 sneak reactor

NT1 sora reactor

NT1 stf reactor

NT1 tapiro reactor

NT1 tibr reactor

NT1 vera reactor

NT1 viper reactor

NT1 wntr reactor

NT1 yayoi reactor

NT1 zephyr reactor

NT1 zppr reactor

NT1 zpr-3 reactor

NT1 zpr-6 reactor

NT1 zpr-9 reactor

NT1 zrr reactor

RT fast fission factor

RT fast neutrons

**fast source reactor aec**

USE afsr reactor

**FASTBUS SYSTEM**

INIS: 1983-09-06; ETDE: 1983-03-23

RT camac system

RT computers

RT data acquisition systems

RT equipment interfaces

RT nuclear instrument modules

RT on-line control systems

RT on-line measurement systems

**FASTENERS**

UF bolts

UF nuts (mechanical)

UF rivets

UF screws

UF studs

RT anchors

RT couplings

RT fastening

RT joining

RT restraints

**FASTENING**

UF anchoring

UF bolting

UF connecting

UF riveting

UF screwing

\*BT1 joining

RT fasteners

RT joints

**FASTING**

UF starvation

RT biological stress

RT diet

RT metabolism

**FAT CELLS**

\*BT1 connective tissue cells

RT adipose tissue

RT leptin

**FATHEAD MINNOW**

INIS: 1993-07-14; ETDE: 1984-08-20

UF *pimephales promelas*

\*BT1 fishes

RT fresh water

RT ichthyoplankton

**FATIGUE**

BT1 mechanical properties

NT1 corrosion fatigue

NT1 thermal fatigue

RT crack propagation

RT damage

RT failures

RT s-n diagram

**fatigue (biological)**

USE biological fatigue

**FATS**

1996-10-22

UF butter fat

RT adipose tissue

RT food

RT leptin

RT lipids

**fatty acids**

USE carboxylic acids

**faucets (water)**

INIS: 2000-04-12; ETDE: 1977-06-21

USE water faucets

**FAUJASITE**

INIS: 2000-04-12; ETDE: 1979-07-18

\*BT1 zeolites

**fault liability**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

USE liabilities

**FAULT TOLERANT COMPUTERS**

INIS: 1988-11-16; ETDE: 1986-01-14

Systems which have the ability to produce correct results even in the presence of a fault.

\*BT1 digital computers

RT computerized control systems

RT programming

RT reliability

**FAULT TREE ANALYSIS**

UF fault tree systems

\*BT1 system failure analysis

RT control

RT monte carlo method

RT planning

RT probabilistic estimation

RT statistics

**fault tree systems**

USE fault tree analysis

**faultless event**

1994-10-14

A test made during operation crossite.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**faults (geologic)**

INIS: 1975-11-07; ETDE: 2002-06-13

USE geologic faults

**faure cyclotron**

INIS: 1983-06-01; ETDE: 1983-07-07

USE nac cyclotron

**fbh process**

INIS: 2000-04-12; ETDE: 1976-01-26

USE fluidized bed hydrogenation process

**fbi**

INIS: 2000-04-12; ETDE: 1979-12-10

USE federal bureau of investigation

**FBR TYPE REACTORS**

UF fast breeder type reactors

UF fast-mixed spectrum reactor

\*BT1 breeder reactors

\*BT1 fast reactors

NT1 aipfr reactor

NT1 gcfr type reactors

NT2 gcfr reactor

NT1 kalpakkam pfr reactor

NT1 lmfr type reactors

NT2 beloyarsk-3 reactor

NT2 beloyarsk-4 reactor

NT2 bn-1600 reactor

NT2 bn-350 reactor

NT2 bn-800 reactor

NT2 bor-60 reactor

NT2 cdfr reactor

NT2 clinch river breeder reactor

NT2 dfr reactor

NT2 ebr-1 reactor

NT2 ebr-2 reactor

NT2 enrico fermi-1 reactor

**NT2** joyo reactor  
**NT2** kalpakkam lmfr reactor  
**NT2** monju reactor  
**NT2** pfr reactor  
**NT2** phenix reactor  
**NT2** plbr reactor  
**NT2** rapsodie reactor  
**NT2** sbr-1 reactor  
**NT2** sbr-2 reactor  
**NT2** sbr-5 reactor  
**NT2** snr-2 reactor  
**NT2** snr reactor  
**NT2** super phenix reactor  
**NT1** pec brasimone reactor  
**NT1** zebra reactor  
**RT** civex process  
**RT** heterogeneous reactor cores  
**RT** power reactors

**FBRF REACTOR**

*Fast Burst Reactor Facility, White Sands Missile Range, New Mexico, USA.*

*UF fast burst reactor facility*

\*BT1 fast reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors

**fbtr reactor (kalpakkam)**

*INIS: 1986-06-10; ETDE: 2002-06-13*

USE kalpakkam lmfr reactor

**FCA REACTOR**

*JAERI, Tokai, Ibaraki, Japan.*

*UF tokai-mura fast critical assembly*

\*BT1 fast reactors  
 \*BT1 zero power reactors

**FCC LATTICES**

*UF face centered cubic*

\*BT1 cubic lattices

**fcrl reactor**

*2000-04-12*

SEE fast reactors  
 SEE zero power reactors

**fdr reactor**

*2000-04-12*

USE otto hahn reactor

**FEASIBILITY STUDIES**

*UF mission analysis*  
*RT bench-scale experiments*  
*RT commercialization*  
*RT comparative evaluations*  
*RT design*  
*RT economics*  
*RT efficiency*  
*RT evaluation*  
*RT field tests*  
*RT implementation*  
*RT performance*  
*RT planning*  
*RT productivity*  
*RT technology assessment*  
*RT technology utilization*  
*RT testing*

**FEATHERS**

*RT birds*  
*RT skin*

**FECES**

\*BT1 biological wastes  
*RT body fluids*  
*RT excretion*  
*RT large intestine*  
*RT proteus*  
*RT rectum*

**fedal**

USE failed element detection

**federal assistance programs**

*INIS: 2000-04-12; ETDE: 1977-10-20*  
 (Prior to February 1992 this was a valid ETDE descriptor.)  
 USE us federal assistance programs

**federal aviation administration**

*INIS: 2000-04-12; ETDE: 1978-09-13*  
 USE us faa

**federal buildings**

*INIS: 1994-10-03; ETDE: 1979-02-23*  
 (Until September 1994 this was a valid descriptor.)  
 USE government buildings

**FEDERAL BUREAU OF INVESTIGATION**

*INIS: 2000-04-12; ETDE: 1979-12-10*  
*UF fbi*  
 \*BT1 us doj

**federal driving cycle**

*INIS: 2000-04-12; ETDE: 1975-11-12*  
 USE federal test procedure

**federal emergency management agency**

*INIS: 2000-04-12; ETDE: 1984-02-10*  
 USE us fema

**federal energy administration**

*1977-07-05*  
 USE us fea

**federal energy regulatory commission**

*INIS: 2000-04-12; ETDE: 1978-02-14*  
 USE us ferc

**federal expenditures**

*INIS: 2000-04-12; ETDE: 1980-08-25*  
 (Prior to February 1997 this was a valid ETDE descriptor.)  
 USE expenditures  
 USE national government

**federal government**

*INIS: 1980-11-07; ETDE: 1980-03-04*  
 USE national government

**federal power commission**

*INIS: 2000-04-12; ETDE: 1976-10-13*  
 (Prior to February 1992 this was a valid ETDE descriptor.)  
 USE us federal power commission

**FEDERAL RADIATION COUNCIL**

*UF frc*  
 \*BT1 us organizations  
*RT radiation protection*  
*RT radiation protection laws*  
*RT safety standards*

**federal region i**

*INIS: 2000-04-12; ETDE: 1982-06-07*  
 (Prior to June 1982 this concept in ETDE was indexed by NORTH ATLANTIC REGION. From June 1982 to February 1992 this was a valid descriptor.)  
 USE usa

**federal region ii**

*INIS: 2000-04-12; ETDE: 1982-06-07*  
 (Prior to June 1982, this concept in ETDE was indexed by MID-ATLANTIC REGION. From June 1982 to April 1992 this was a valid ETDE descriptor.)  
 USE usa

**federal region iii**

*INIS: 2000-04-12; ETDE: 1982-06-07*  
 (Prior to June 1982 this concept in ETDE was indexed by CENTRAL REGION. From June 1982 to April 1992 this was a valid descriptor.)  
 USE usa

**federal region iv**

*INIS: 2000-04-12; ETDE: 1982-06-07*  
 (Prior to June 1982 this concept in ETDE was indexed by SOUTHEAST REGION. From June 1982 to April 1992 this was a valid descriptor.)  
 USE usa

**federal region ix**

*INIS: 2000-04-12; ETDE: 1982-06-07*  
 (Prior to June 1982 this concept in ETDE was indexed by WESTERN REGION. From June 1982 to April 1993 this was a valid descriptor.)  
 USE usa

**federal region v**

*INIS: 2000-04-12; ETDE: 1982-06-07*  
 (Prior to June 1982 this concept in ETDE was indexed by GREAT LAKES REGION. From June 1982 to April 1992 this was a valid descriptor.)  
 USE usa

**federal region vi**

*INIS: 2000-04-12; ETDE: 1982-06-07*  
 (Prior to June 1982 this concept in ETDE was indexed by SOUTHWEST REGION. From June 1982 to April 1993 this was a valid descriptor.)  
 USE usa

**federal region vii**

*INIS: 2000-04-12; ETDE: 1982-06-07*  
 (Prior to June 1982 this concept in ETDE was indexed by MIDWEST REGION. From June 1982 to April 1993 this was a valid descriptor.)  
 USE usa

**federal region viii**

*INIS: 2000-04-12; ETDE: 1982-06-07*  
 (Prior to June 1982 this concept in ETDE was indexed by ROCKY MOUNTAIN REGION. From June 1982 to April 1993 this was a valid descriptor.)  
 USE usa

**federal region x**

*INIS: 2000-04-12; ETDE: 1982-06-07*  
 (Prior to June 1982 this concept in ETDE was indexed by PACIFIC NORTHWEST REGION. From June 1982 to April 1993 this was a valid descriptor.)  
 USE usa

**FEDERAL REPUBLIC OF GERMANY**

*INIS: 1997-06-19; ETDE: 1979-10-23*  
*UF german democratic republic*  
*UF german federal republic*  
*UF germany*  
*UF germany (democratic republic)*  
*UF germany (federal republic)*  
*UF west germany*  
 BT1 developed countries  
 \*BT1 western europe  
*RT alps*  
*RT asse salt mine*  
*RT danube river*  
*RT erzgebirge deposit*  
*RT german fr organizations*  
*RT oecd*

RT rhine river  
RT urach geothermal field

**FEDERAL TEST PROCEDURE**

INIS: 2000-04-12; ETDE: 1975-11-11

Test procedures for exhaust emissions and fuel economy.

UF federal driving cycle  
RT engines  
RT exhaust gases  
RT performance testing  
RT pollution regulations

**federal water pollution control act**

INIS: 1977-03-01; ETDE: 1976-06-07

(Prior to April 1980, this was a valid ETDE descriptor.)

USE clean water acts

**federation of malaya**

USE malaysia

**FEED MATERIALS PLANTS**

1996-07-23

Plants for the production of refined uranium or plutonium metal or their pure compounds in a form suitable for use in nuclear reactor fuel elements or as feed for uranium enrichment processes.

UF anaconda uranium mill  
UF highland uranium mill  
UF shirley basin uranium mill  
UF uranium mills  
BT1 industrial plants  
BT1 nuclear facilities  
NT1 feed materials production center  
NT1 west valley uf6 facility  
RT fuel cycle centers  
RT uranium  
RT uranium concentrates

**FEED MATERIALS PRODUCTION CENTER**

Fernald, Ohio.

UF fernald production plant  
\*BT1 feed materials plants  
\*BT1 us aec  
\*BT1 us doe  
\*BT1 us erda  
RT ohio

**FEEDBACK**

RT closed-loop control  
RT control  
RT control theory  
RT nyquist diagrams  
RT servomechanisms

**FEEDING**

NT1 grazing  
RT diet  
RT food  
RT nutrients

**FEEDWATER**

\*BT1 water  
RT auxiliary water systems  
RT boilers  
RT deaerators  
RT demineralization  
RT feedwater heaters  
RT reactor cooling systems  
RT steam generators  
RT water chemistry

**FEEDWATER HEATERS**

BT1 heaters  
RT feedwater  
RT reactor cooling systems

**fees**

USE charges

**FEET**

\*BT1 legs

**feinberg-pais theory**

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE leptons  
SEE weak interactions

**FELDSPARS**

A group of abundant rock-forming minerals.

(From November 1976 till February 1997 ALBITE was a valid ETDE descriptor; from June 1977 till March 1996 MICROCLINE was a valid ETDE descriptor.)

UF albite  
UF microcline  
\*BT1 silicate minerals  
NT1 anorthite  
NT1 orthoclase  
RT anorthosites  
RT aplites  
RT basalt  
RT gabbros  
RT granites  
RT granodiorites  
RT pegmatites  
RT quartz monzonite  
RT rhyolites  
RT shales  
RT syenites

**FELIX FACILITY**

INIS: 1992-01-07; ETDE: 1983-06-20

Experimental test facility at Argonne National Laboratory, USA, for the study of electromagnetic effects in fusion reactor materials.

UF fusion electromagnetic induction experiment  
BT1 test facilities  
RT thermonuclear reactors

**FEMALE GENITALS**

UF genitals (female)  
UF vagina  
\*BT1 organs  
NT1 ovaries  
NT1 uterus  
RT estrous cycle  
RT fertility  
RT gonads  
RT gynecology  
RT menstrual cycle  
RT menstruation disorders  
RT pelvis  
RT reproduction  
RT sex  
RT urogenital system diseases

**FEMALES**

NT1 women  
RT animals  
RT sex  
RT sex dependence

**FEMUR**

\*BT1 skeleton  
RT legs

**FENCES**

2006-06-27

BT1 physical protection devices  
RT biointrusion  
RT human intrusion

**FERC GAS AREAS**

INIS: 2000-04-12; ETDE: 1979-12-10

UF fpc gas areas  
RT natural gas distribution systems  
RT natural gas industry

RT us ferc

**FERGHANITE**

2000-04-12

\*BT1 oxide minerals  
\*BT1 uranium minerals  
RT uranium oxides  
RT vanadium oxides

**FERMAT PRINCIPLE**

RT wave propagation

**FERMENTATION**

1997-06-19

(From October 1978 to February 1997 CELL RECYCLE was a valid ETDE descriptor.)

UF biothermohol process  
SF cell recycle  
SF microbial processes  
BT1 bioconversion  
NT1 vacuum fermentation  
RT anaerobic digestion  
RT batch culture  
RT biochemistry  
RT biological pathways  
RT chemical reactions  
RT clostridium thermocellum  
RT continuous culture  
RT distillers dried grains  
RT mesophilic conditions  
RT saccharification  
RT semibatch culture  
RT stillage  
RT thermophilic conditions

**fermentation alcohol**

USE ethanol

**fermi age**

USE fermi age theory  
USE neutron age

**FERMI AGE THEORY**

UF fermi age  
BT1 neutron slowing-down theory  
RT neutron age  
RT slowing-down

**fermi beta theory**

USE fermi interactions

**fermi constants**

USE fermi interactions

**fermi diagram**

USE fermi plot

**fermi-dirac gas**

USE fermi gas

**fermi-dirac statistics**

INIS: 1975-09-16; ETDE: 1976-05-19

USE fermi statistics

**fermi fluid**

USE fermi gas

**FERMI GAS**

UF fermi-dirac gas  
UF fermi fluid  
UF fermi liquid  
RT bose-einstein gas  
RT electron gas  
RT fermi statistics  
RT gases

**FERMI GAS MODEL**

\*BT1 nuclear models

**FERMI INTERACTIONS**

UF fermi beta theory  
UF fermi constants  
UF fermi pseudopotential

UF *fermi-weizsaecker formula*  
 UF *four-fermion interaction*  
 \*BT1 weak interactions  
 RT primakoff theory  
 RT v-a theory

**fermi-kurie plot**

USE fermi plot

**FERMI LEVEL**

UF *fermi surface*  
 BT1 energy levels  
 RT band theory  
 RT cooper pairs

**fermi liquid**

USE fermi gas

**FERMI PLOT**

UF *fermi diagram*  
 UF *fermi-kurie plot*  
 UF *kurie plot*  
 \*BT1 diagrams  
 RT beta decay

**fermi pseudopotential**

USE fermi interactions

**FERMI RESONANCE**

BT1 resonance

**FERMI-SEGRE FORMULA**

RT magnetic moments

**FERMI STATISTICS**

INIS: 1975-09-16; ETDE: 1975-10-28

UF *fermi-dirac statistics*  
 RT bose-einstein statistics  
 RT fermi gas  
 RT fermions  
 RT parastatistics  
 RT statistical mechanics

**fermi surface**

USE fermi level

**fermi-thomas model**

USE thomas-fermi model

**fermi-weizsaecker formula**

USE fermi interactions

**FERMILAB**

1995-01-27

\*BT1 us doe  
 RT illinois

**FERMILAB ACCELERATOR**

INIS: 1977-10-17; ETDE: 1975-11-11

*Facility at Fermi National Accelerator Laboratory, Batavia, Illinois, includes main synchrotron, booster synchrotron, and linac.*

UF *nal synchrotron*  
 UF *national accelerator laboratory*  
 \*BT1 synchrotrons  
 RT fermilab tevatron  
 RT popae storage ring

**FERMILAB COLLIDER DETECTOR**

1992-01-14

*Detector to study proton-antiproton collisions at 2 TeV center-of-mass energy.*

UF *cdf*  
 UF *collider detector at fermilab*  
 \*BT1 radiation detectors  
 RT drift chambers  
 RT projection spark chambers  
 RT shower counters

**FERMILAB TEVATRON**

INIS: 1984-02-22; ETDE: 1984-03-06

*TeV range proton synchrotron at Fermi National Accelerator Laboratory.*

UF *tevatron*  
 UF *tevatron (fermilab)*  
 \*BT1 synchrotrons  
 RT fermilab accelerator

**fermion-boson symmetry**

1984-12-04

USE boson-fermion symmetry

**FERMIONS**

NT1 baryons

NT2 antibaryons

NT3 antihyperons

NT4 antilambda particles

NT4 antiomega particles

NT4 antisigma particles

NT4 antixi particles

NT3 antinucleons

NT4 antineutrons

NT4 antiprotons

NT2 beauty baryons

NT3 lambda b neutral baryons

NT2 charmed baryons

NT3 lambda c-2625 baryons

NT3 lambda c plus baryons

NT3 omega c neutral baryons

NT3 sigma c-2455 baryons

NT3 xi c neutral baryons

NT3 xi c plus baryons

NT2 dibaryons

NT3 dineutrons

NT3 diprotons

NT3 lambda-b-n-2130 dibaryons

NT3 nn-2170 dibaryons

NT3 nn-2250 dibaryons

NT2 hyperons

NT3 antihyperons

NT4 antilambda particles

NT4 antiomega particles

NT4 antisigma particles

NT4 antixi particles

NT3 lambda baryons

NT4 lambda-1405 baryons

NT4 lambda-1520 baryons

NT4 lambda-1600 baryons

NT4 lambda-1670 baryons

NT4 lambda-1690 baryons

NT4 lambda-1800 baryons

NT4 lambda-1810 baryons

NT4 lambda-1820 baryons

NT4 lambda-1830 baryons

NT4 lambda-1890 baryons

NT4 lambda-2100 baryons

NT4 lambda-2110 baryons

NT4 lambda particles

NT5 antilambda particles

NT3 lambda-b-n-2130 dibaryons

NT3 omega baryons

NT4 omega-2250 baryons

NT4 omega particles

NT5 antiomega particles

NT5 omega minus particles

NT3 sigma baryons

NT4 sigma-1385 baryons

NT4 sigma-1660 baryons

NT4 sigma-1670 baryons

NT4 sigma-1750 baryons

NT4 sigma-1770 baryons

NT4 sigma-1775 baryons

NT4 sigma-1915 baryons

NT4 sigma-1940 baryons

NT4 sigma-2030 baryons

NT4 sigma-2455 baryons

NT4 sigma particles

NT5 antisigma particles

NT5 sigma minus particles

NT5 sigma neutral particles

NT5 sigma plus particles

NT3 xi baryons

NT4 xi-1530 baryons

NT4 xi-1690 baryons

NT4 xi-1820 baryons

NT4 xi-1950 baryons

NT4 xi-2030 baryons

NT4 xi-2250 baryons

NT4 xi-2500 baryons

NT4 xi particles

NT5 antixi particles

NT5 xi minus particles

NT5 xi neutral particles

NT3 z\*baryons

NT2 n\*baryons

NT3 delta baryons

NT4 delta-1232 baryons

NT4 delta-1600 baryons

NT4 delta-1620 baryons

NT4 delta-1700 baryons

NT4 delta-1900 baryons

NT4 delta-1905 baryons

NT4 delta-1910 baryons

NT4 delta-1920 baryons

NT4 delta-1930 baryons

NT4 delta-1950 baryons

NT4 delta-2000 baryons

NT4 delta-2150 baryons

NT4 delta-2200 baryons

NT4 delta-2400 baryons

NT4 delta-2420 baryons

NT4 delta-3000 baryons

NT3 n baryons

NT4 n-1440 baryons

NT4 n-1520 baryons

NT4 n-1535 baryons

NT4 n-1650 baryons

NT4 n-1675 baryons

NT4 n-1680 baryons

NT4 n-1700 baryons

NT4 n-1710 baryons

NT4 n-1720 baryons

NT4 n-1960 baryons

NT4 n-1990 baryons

NT4 n-2000 baryons

NT4 n-2080 baryons

NT4 n-2100 baryons

NT4 n-2190 baryons

NT4 n-2250 baryons

NT4 n-3000 baryons

NT2 nucleons

NT3 antinucleons

NT4 antineutrons

NT4 antiprotons

NT3 neutrons

NT4 antineutrons

NT4 beta-delayed neutrons

NT4 cold neutrons

NT5 ultracold neutrons

NT4 cosmic neutrons

NT4 epithermal neutrons

NT4 fast neutrons

NT4 fission neutrons

NT5 delayed neutrons

NT5 prompt neutrons

NT4 intermediate neutrons

NT4 photoneutrons

NT4 pile neutrons

NT4 polyneutrons

NT5 dineutrons

NT5 tetraneutrons

NT5 trineutrons

NT4 resonance neutrons

NT4 slow neutrons

NT4 solar neutrons

NT4 thermal neutrons

NT3 photonucleons

NT4 photoneutrons  
 NT4 photoprotons  
 NT3 protons  
 NT4 antiprotons  
 NT4 cosmic protons  
 NT4 delayed protons  
 NT4 diprotons  
 NT4 photoprotons  
 NT4 prompt protons  
 NT4 solar protons  
 NT4 trapped protons  
 NT1 leptons  
 NT2 antileptons  
 NT3 antineutrinos  
 NT4 electron antineutrinos  
 NT4 muon antineutrinos  
 NT3 muons plus  
 NT3 positrons  
 NT4 cosmic positrons  
 NT2 electrons  
 NT3 cosmic electrons  
 NT3 exoelectrons  
 NT3 prompt electrons  
 NT3 runaway electrons  
 NT3 solar electrons  
 NT3 solvated electrons  
 NT3 tail electrons  
 NT3 trapped electrons  
 NT2 heavy leptons  
 NT3 heavy neutral muons  
 NT3 tau neutrinos  
 NT3 tau particles  
 NT2 muons  
 NT3 cosmic muons  
 NT3 muons minus  
 NT3 muons plus  
 NT2 neutrinos  
 NT3 antineutrinos  
 NT4 electron antineutrinos  
 NT4 muon antineutrinos  
 NT3 cosmic neutrinos  
 NT3 electron neutrinos  
 NT4 electron antineutrinos  
 NT3 muon neutrinos  
 NT4 muon antineutrinos  
 NT3 solar neutrinos  
 NT3 tau neutrinos  
 NT1 quarks  
 NT2 antiquarks  
 NT3 b antiquarks  
 NT3 c antiquarks  
 NT3 d antiquarks  
 NT3 s antiquarks  
 NT3 t antiquarks  
 NT3 u antiquarks  
 NT2 b quarks  
 NT3 b antiquarks  
 NT2 c quarks  
 NT3 c antiquarks  
 NT2 d quarks  
 NT3 d antiquarks  
 NT2 s quarks  
 NT3 s antiquarks  
 NT2 t quarks  
 NT3 t antiquarks  
 NT2 u quarks  
 NT3 u antiquarks  
 RT boson-fermion symmetry  
 RT fermi statistics

**FERMIUM**

\*BT1 actinides  
 \*BT1 transplutonium elements

**FERMIUM 242**

*INIS: 1976-03-25; ETDE: 1975-11-26*

\*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 microseconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**FERMIUM 243**

*INIS: 1986-06-09; ETDE: 1982-03-11*

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 milliseconds living radioisotopes

**FERMIUM 244**

\*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 245**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 seconds living radioisotopes

**FERMIUM 246**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 247**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 seconds living radioisotopes

**FERMIUM 248**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 249**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 minutes living radioisotopes

**FERMIUM 250**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 251**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 hours living radioisotopes

**FERMIUM 252**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 253**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes

**FERMIUM 253 TARGET**

*1980-05-14*

BT1 targets

**FERMIUM 254**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 254 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**FERMIUM 255**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 255 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**FERMIUM 256**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 256 TARGET**

*1980-05-14*

BT1 targets

**FERMIUM 257**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 257 TARGET**

*INIS: 1976-03-02; ETDE: 1976-07-12*

BT1 targets

**FERMIUM 258**

\*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 258 TARGET**

*1980-05-14*

BT1 targets

**FERMIUM 259**

\*BT1 actinide nuclei  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 259 TARGET**

*1980-05-14*

BT1 targets

**FERMIUM 260**

2007-10-22

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 fermium isotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM 260 TARGET**

1980-05-14

- BT1 targets

**FERMIUM BROMIDES**

INIS: 2000-04-12; ETDE: 1987-10-02

- \*BT1 bromides
- \*BT1 fermium compounds

**FERMIUM CHLORIDES**

1996-07-18

(From July 1996 to February 2008 FERMIUM COMPOUNDS + CHLORIDES was used for this concept.)

- \*BT1 chlorides
- \*BT1 fermium halides

**FERMIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**FERMIUM COMPOUNDS**

1996-11-13

- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 fermium bromides
- NT1 fermium halides
- NT2 fermium chlorides
- NT2 fermium iodides
- NT1 fermium oxides

**FERMIUM HALIDES**

2008-02-07

- \*BT1 fermium compounds
- \*BT1 halides
- NT1 fermium chlorides
- NT1 fermium iodides

**FERMIUM IODIDES**

INIS: 1997-01-28; ETDE: 1987-10-02

(From October 1996 to February 2008 FERMIUM COMPOUNDS + IODIDES was used for this concept.)

- \*BT1 fermium halides
- \*BT1 iodides

**FERMIUM IONS**

- \*BT1 ions

**FERMIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 fermium 242
- NT1 fermium 243
- NT1 fermium 244
- NT1 fermium 245
- NT1 fermium 246
- NT1 fermium 247
- NT1 fermium 248
- NT1 fermium 249
- NT1 fermium 250
- NT1 fermium 251
- NT1 fermium 252
- NT1 fermium 253
- NT1 fermium 254
- NT1 fermium 255
- NT1 fermium 256
- NT1 fermium 257
- NT1 fermium 258
- NT1 fermium 259
- NT1 fermium 260

**FERMIUM OXIDES**

1996-07-18

(From July 1996 to November 2007 FERMIUM COMPOUNDS + OXIDES was used for this concept.)

- \*BT1 fermium compounds
- \*BT1 oxides

**fernal production plant**

INIS: 2000-04-12; ETDE: 1991-03-11

USE feed materials production center

**FERNS**

- UF azolla
- BT1 plants

**ferranti computers**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE computers

**FERRATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 iron compounds
- BT1 oxygen compounds
- RT iron oxides

**FERREDOXIN**

INIS: 1993-08-26; ETDE: 1978-07-06

- \*BT1 metalloproteins
- RT rubredoxin

**ferric compounds**

USE iron compounds

**FERRICYANIDES**

- UF cyanoferrates
- \*BT1 iron complexes

**FERRIMAGNETIC MATERIALS**

- UF materials (ferrimagnetic)
- \*BT1 magnetic materials
- NT1 ferrites
- RT ferrimagnetic resonance
- RT ferrimagnetism
- RT ferrite garnets
- RT perovskites

**FERRIMAGNETIC RESONANCE**

INIS: 1977-09-06; ETDE: 1977-10-19

- \*BT1 magnetic resonance
- RT ferrimagnetic materials
- RT ferrimagnetism

**FERRIMAGNETISM**

- BT1 magnetism
- RT antiferromagnetism
- RT ferrimagnetic materials
- RT ferrimagnetic resonance
- RT ferromagnetism

**FERRITE**

*A solid solution of carbon in alpha-iron.*

- \*BT1 carbon additions
- \*BT1 iron alloys
- RT ferritic steels
- RT iron-alpha
- RT magnetite
- RT martensite
- RT pearlite
- RT solid solutions
- RT steel-cr2moninb
- RT steels

**FERRITE GARNETS**

*Minerals with the general formula Y3M5O12, where Y is yttrium or other rare earth, and M is usually iron, but may be another metal. For silicate garnets use GARNETS.*

- UF iron garnets
- UF yttrium aluminium garnets
- \*BT1 oxide minerals
- RT ferrimagnetic materials
- RT garnets

**FERRITES**

*Specific compounds should be indexed by coordination of a descriptor of the form (cation) compounds and the above anion descriptor.*

- \*BT1 ferrimagnetic materials
- \*BT1 iron compounds
- BT1 oxygen compounds
- RT iron oxides

**FERRITIC STEELS**

INIS: 1979-05-28; ETDE: 1979-09-06

- \*BT1 steels
- NT1 steel-cr12moniv
- NT1 steel-cr13al
- NT2 stainless steel-405
- NT1 steel-cr16
- NT2 stainless steel-430
- NT1 steel-cr25
- NT2 stainless steel-446
- NT1 steel-cr9mo
- NT1 steel-cr9monbv
- RT corrosion resistant alloys
- RT ferrite

**FERRITIN**

- \*BT1 iron complexes
- \*BT1 metalloproteins
- RT hemosiderin
- RT iron

**ferroan**

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE carbonates

**ferrobacillus ferrooxidans**

INIS: 2000-04-12; ETDE: 1977-09-19

(Prior to September 1994, this was a valid ETDE descriptor.)

USE bacillus

**FERROCENE**

- \*BT1 dienes
- \*BT1 iron complexes

**FERROCYANIDES**

- UF prussian blue
- \*BT1 iron complexes

**FERROELECTRIC CONVERTERS**

INIS: 2000-04-12; ETDE: 1977-03-04

- BT1 direct energy converters
- RT ferroelectric materials

**FERROELECTRIC MATERIALS**

- UF materials (ferroelectric)
- \*BT1 dielectric materials
- RT antiferroelectric materials
- RT ferroelectric converters

**ferrofluids**

INIS: 2000-04-12; ETDE: 1985-03-12

(Prior to March 1997 MAGNETIC LIQUIDS was used for this concept in ETDE.)

- USE liquids
- USE magnetic materials

**FERROIN**

- \*BT1 phenanthrolines

BT1 reagents  
 RT iron complexes  
 RT phenanthroline-ortho

**FERROMAGNETIC MATERIALS**  
 UF *materials (ferromagnetic)*  
 \*BT1 magnetic materials  
 RT antiferromagnetic materials  
 RT ferromagnetic resonance  
 RT magnetic semiconductors  
 RT spin glass state

**FERROMAGNETIC RESONANCE**  
 INIS: 1976-05-07; ETDE: 1976-08-04  
 \*BT1 magnetic resonance  
 RT ferromagnetic materials  
 RT ferromagnetism

**FERROMAGNETISM**  
 UF *nuclear ferromagnetism*  
 BT1 magnetism  
 NT1 mictomagnetism  
 RT antiferromagnetism  
 RT curie point  
 RT ferrimagnetism  
 RT ferromagnetic resonance  
 RT heisenberg model  
 RT hubbard model

**FERRON**  
 \*BT1 hydroxy compounds  
 \*BT1 organic iodine compounds  
 \*BT1 quinolines  
 BT1 reagents  
 \*BT1 sulfonic acids

**ferrous compounds**  
 USE iron compounds

**ferrox process**  
 2000-04-12  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**FERSMITE**  
 2000-04-12  
 \*BT1 radioactive minerals

**FERTILE MATERIALS**  
*Materials containing nuclides capable of being transformed into fissile nuclides by neutron capture.*  
 BT1 materials  
 RT breeding blankets  
 RT nuclear fuel conversion  
 RT nuclear fuels

**FERTILITY**  
 RT female genitals  
 RT fertilization  
 RT gonads  
 RT male genitals  
 RT menopause  
 RT menstrual cycle  
 RT progeny  
 RT reproduction  
 RT reproductive disorders  
 RT sterility

**FERTILIZATION**  
 INIS: 1986-12-18; ETDE: 1977-10-20  
 RT fertility  
 RT gametes  
 RT ova  
 RT ovulation  
 RT reproduction  
 RT zygotes

**FERTILIZER INDUSTRY**  
 INIS: 1993-01-28; ETDE: 1977-08-09  
 BT1 industry

RT agriculture

**FERTILIZERS**  
 NT1 superphosphates  
 RT agriculture  
 RT eutrophication  
 RT nitrogen cycle  
 RT nutrients  
 RT plants  
 RT soil chemistry  
 RT soil conservation

**feshbach-porter-weisskopf model**  
 USE optical models

**FESHBACH-WEISSKOPF MODEL**  
 RT nuclear reactions

**FESSENHEIM-1 REACTOR**  
*Fessenheim, Haut-Rhine, France.*  
 \*BT1 pwr type reactors

**FESSENHEIM-2 REACTOR**  
*Fessenheim, Haut-Rhine, France.*  
 \*BT1 power reactors

**FETAL MEMBRANES**  
 UF *amion*  
 UF *chorioallantoic membrane*  
 BT1 membranes  
 NT1 placenta  
 RT embryos  
 RT fetuses

**FETUSES**  
 RT age groups  
 RT amniotic fluid  
 RT congenital malformations  
 RT embryos  
 RT fetal membranes  
 RT ontogenesis  
 RT pregnancy  
 RT prenatal exposure  
 RT prenatal irradiation  
 RT teratogens  
 RT uterus

**FEULGEN METHOD**  
 RT cytochemistry  
 RT dna

**FEVER**  
 BT1 symptoms  
 RT antipyretics  
 RT body temperature  
 RT heat stress  
 RT hyperthermia  
 RT pyrogens

**FEYNMAN DIAGRAM**  
 \*BT1 diagrams  
 RT quantum field theory

**FEYNMAN GAS MODEL**  
 \*BT1 particle models  
 \*BT1 statistical models

**FEYNMAN-GELL-MANN THEORY**  
 RT beta decay  
 RT neutrinos

**FEYNMAN METHOD**  
 UF *welton method*  
 BT1 calculation methods  
 RT neutron transport theory  
 RT transport theory

**FEYNMAN PATH INTEGRAL**  
 \*BT1 path integrals  
 RT propagator  
 RT quantum mechanics  
 RT wilson loop

**FFTF REACTOR**  
*Westinghouse Hanford Company, Richland, Washington, USA. Shut down in 1992.*  
 UF *fast flux test facility*  
 UF *fast flux test facility reactor*  
 UF *fir reactor (richland)*  
 UF *richland fftf reactor*  
 \*BT1 fast reactors  
 \*BT1 research reactors  
 \*BT1 sodium cooled reactors  
 \*BT1 test reactors  
 RT hanford engineering development laboratory

**FIAN SYNCHROTRON**  
 UF *lebedev synchrotron*  
 \*BT1 synchrotrons

**FIBER OPTICS**  
 INIS: 1979-04-27; ETDE: 1978-09-11  
*The technique of transmitting light through long, thin, flexible fibers of glass, plastic or other transparent materials.*  
 BT1 optics  
 RT light transmission  
 RT optical equipment  
 RT optical fibers  
 RT optical properties  
 RT optical systems

**FIBERGLASS**  
 INIS: 1978-08-30; ETDE: 1978-04-06  
 \*BT1 composite materials  
 RT fibers  
 RT glass  
 RT glazing materials  
 RT organic polymers

**FIBERS**  
 1996-08-05  
 NT1 carbon fibers  
 NT1 optical fibers  
 RT aramids  
 RT cotton  
 RT dacron  
 RT fiberglass  
 RT jute  
 RT mineral wool  
 RT rayon  
 RT synthetic materials  
 RT textiles  
 RT wool

**fibration (topological maps)**  
 USE mapping fibration

**FIBRIN**  
 \*BT1 blood coagulation factors  
 \*BT1 scleroproteins

**FIBRINOGEN**  
 \*BT1 blood coagulation factors  
 \*BT1 globulins

**FIBRINOLYSIS**  
 ETDE: 1981-06-13  
 Code number 3.4.21.7.  
 UF *plasmin*  
 \*BT1 fibrinolytic agents  
 \*BT1 serine proteinases  
 RT anticoagulants  
 RT blood coagulation  
 RT blood coagulation factors  
 RT fibrinolysis  
 RT thrombosis

**FIBRINOLYSIS**  
 \*BT1 proteolysis  
 RT fibrinolysin  
 RT streptococcal proteinase  
 RT urokinase



**FIBRINOLYTIC AGENTS**

INIS: 1996-11-13; ETDE: 1981-04-20

- UF streptidine kinase  
 \*BT1 hematologic agents  
 NT1 fibrinolysin  
 NT1 plasminogen  
 NT1 urokinase  
 RT anticoagulants  
 RT blood substitutes  
 RT coagulants  
 RT hematinics

**FIBROBLASTS**

- \*BT1 connective tissue cells  
 RT collagen  
 RT fibrosis  
 RT I cells

**FIBROSARCOMAS**

- \*BT1 sarcomas

**FIBROSIS**

- BT1 pathological changes  
 RT connective tissue  
 RT fibroblasts

**FICK LAWS**

- RT diffusion  
 RT neutron diffusion equation  
 RT neutron transport theory

**FIELD ALGEBRA**

- RT current algebra  
 RT parastatistics  
 RT quantum field theory

**FIELD EFFECT TRANSISTORS**

- UF unipolar transistors  
 \*BT1 transistors  
 NT1 mosfet

**FIELD EMISSION**

- BT1 emission  
 RT electron emission  
 RT ion emission  
 RT ion microscopy

**field emission microscopy**

- USE ion microscopy

**FIELD EQUATIONS**

- BT1 equations  
 NT1 dirac equation  
 NT1 einstein field equations  
 NT1 einstein-maxwell equations  
 NT1 klein-gordon equation  
 NT1 sine-gordon equation  
 RT field theories  
 RT instantons  
 RT maxwell equations  
 RT merons  
 RT solitons

**field ion microscopy**

- USE ion microscopy

**field offices**

INIS: 2000-04-12; ETDE: 1983-03-24  
 USE us doe field offices

**FIELD OPERATORS**

- \*BT1 quantum operators  
 RT quantum field theory  
 RT vacuum states

**FIELD PRODUCTION EQUIPMENT**

INIS: 1994-09-08; ETDE: 1984-03-19

- BT1 equipment  
 NT1 well injection equipment  
 NT1 well recovery equipment  
 NT1 wellheads  
 RT natural gas fields  
 RT natural gas wells

RT oil fields

RT oil wells

**field-reversed configurations**

INIS: 1986-08-19; ETDE: 2002-06-13  
 USE field-reversed theta pinch devices

**field-reversed mirror reactors**

INIS: 1995-01-16; ETDE: 1978-04-06  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE magnetic mirror type reactors  
 USE reversed-field mirrors

**field-reversed mirrors**

INIS: 1982-11-30; ETDE: 2002-06-13  
 USE reversed-field mirrors

**FIELD-REVERSED THETA PINCH DEVICES**

INIS: 1986-08-19; ETDE: 1986-09-05  
 A type of compact torus with poloidal magnetic field only.  
 UF field-reversed configurations  
 \*BT1 compact torus  
 \*BT1 pinch devices

**FIELD TESTS**

INIS: 1981-05-11; ETDE: 1979-02-05  
 BT1 testing  
 RT bench-scale experiments  
 RT demonstration plants  
 RT feasibility studies  
 RT process development units

**FIELD THEORIES**

- NT1 general relativity theory  
 NT1 quantum field theory  
 NT2 axiomatic field theory  
 NT3 algebraic field theory  
 NT3 isz theory  
 NT3 wightman field theory  
 NT2 constructive field theory  
 NT3 lattice field theory  
 NT2 lagrangian field theory  
 NT2 phi4-field theory  
 NT2 quantum chromodynamics  
 NT2 quantum electrodynamics  
 NT3 schwinger-tomonaga formalism  
 NT2 quantum flavorodynamics  
 NT2 quantum gravity  
 NT2 unified gauge models  
 NT3 grand unified theory  
 NT4 standard model  
 NT3 weinberg-salam gauge model  
 NT2 yukawa nonlocal theory  
 NT1 unified-field theories  
 NT2 einstein-schroedinger theory  
 NT2 kaluza-klein theory  
 NT2 supergravity  
 NT2 weinberg-salam gauge model  
 NT2 weyl unified theory  
 RT action integral  
 RT electrodynamics  
 RT field equations  
 RT instantons  
 RT string theory

**fields (crossed)**

- USE crossed fields

**fields (electric)**

- USE electric fields

**fields (electromagnetic)**

INIS: 1982-04-14; ETDE: 1982-05-07  
 USE electromagnetic fields

**fields (gravitational)**

- USE gravitational fields

**fields (magnetic)**

- USE magnetic fields

**FIERZ INTERFERENCE**

- RT beta decay

**FIERZ-PAULI THEORY**

- RT quantum mechanics

**FIFTH SOUND**

INIS: 1977-09-15; ETDE: 1977-11-10  
 RT sound waves  
 RT superfluidity

**FIGS**

- \*BT1 fruits

**figure of merit**

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE performance

**FIJI**

- BT1 islands  
 RT pacific ocean

**filament (plasma)**

- USE plasma filament

**FILAMENT CRYSTAL COUNTERS**

Gamma counter filled with crystalline argon, xenon, methane, etc. at cryogenic temperatures.  
 \*BT1 crystal counters  
 RT gamma detection

**FILAMENTS**

- RT wires

**FILARIASIS**

INIS: 1975-09-16; ETDE: 1975-10-28  
 \*BT1 parasitic diseases  
 RT nematodes  
 RT parasites

**FILL FACTORS**

2000-04-12  
 Fractions of power available to loads.  
 BT1 dimensionless numbers  
 RT power demand  
 RT power generation

**FILLER METALS**

- RT brazing alloys  
 RT welding

**FILLERS**

- RT binders  
 RT grouting

**filling stations**

INIS: 2000-04-12; ETDE: 1979-05-09  
 USE gasoline service stations

**film badges**

- USE photographic film dosimeters

**FILM BOILING**

- \*BT1 boiling

**FILM CONDENSATION**

- BT1 vapor condensation  
 RT steam condensers

**FILM COOLING**

- BT1 cooling

**film dosimeters**

- USE photographic film dosimeters

**FILM DOSIMETRY**

- BT1 dosimetry  
 RT photographic film dosimeters

**FILM FLOW**

1975-08-20

- BT1 fluid flow
- RT helium ii
- RT superfluidity

**FILMLESS SPARK CHAMBERS**

- \*BT1 spark chambers
- NT1 sonic spark chambers
- NT1 wire spark chambers

**FILMS**

Not for the concepts covered by  
PHOTOGRAPHIC FILMS or NUCLEAR  
EMULSIONS.

- NT1 solar control films
- NT1 superconducting films
- NT1 thin films
- RT coatings
- RT foils
- RT heat mirrors
- RT layers
- RT waterproofing

**FILTERS**

See also DIGITAL FILTERS.

- NT1 air filters
- NT1 electric filters
- NT1 electromagnetic filters
- NT1 fabric filters
- NT1 magnetic filters
- NT1 mechanical filters
- NT2 granular bed filters
- NT1 optical filters
- RT aerosols
- RT coolant cleanup systems
- RT diatomaceous earth
- RT dust collectors
- RT dusts
- RT filtration
- RT fouling
- RT hot gas cleanup
- RT respirators
- RT samplers
- RT screens
- RT scrubbing
- RT sorting
- RT suspensions
- RT ultrafiltration
- RT ventilation

**filters (electric)**

2000-04-12

- USE electric filters

**FILTRATION**

- BT1 separation processes
- NT1 ultrafiltration
- RT electromagnetic filters
- RT filters
- RT hot gas cleanup
- RT magnetic filters

**FINAL-STATE INTERACTIONS**

- BT1 interactions
- RT proximity scattering

**financial assistance**

INIS: 1982-12-03; ETDE: 1979-12-17

(Prior to March 1996 this was a valid ETDE  
descriptor.)

- USE financing

**FINANCIAL DATA**

1992-09-01

Use only in conjunction with literary indicator  
N for data flagging.

- UF assets
- SF credits
- SF debits
- \*BT1 numerical data

- RT budgets
- RT economics
- RT reactor licensing

**FINANCIAL INCENTIVES**

INIS: 1997-06-19; ETDE: 1976-12-16

(From January 1981 till March 1997 LOAN  
GUARANTEES was a valid ETDE descriptor.  
From May 1979 till April 1997 SUBSIDIES  
was a valid ETDE descriptor.)

- UF loan guarantees
- UF property tax exemption
- UF subsidies
- SF incentives
- NT1 tax credits
- RT depreciation
- RT economics
- RT financing
- RT legal aspects
- RT national energy conservation  
incentives act
- RT payback period
- RT socio-economic factors
- RT taxes
- RT us depletion allowances
- RT us economic recovery tax act
- RT us energy tax act

**financial management**

INIS: 2000-04-12; ETDE: 1983-03-23

- USE program management

**financial penalties**

INIS: 2000-04-12; ETDE: 1979-07-24

- USE charges

**FINANCIAL SECURITY**

INIS: 1976-12-08; ETDE: 1989-04-19

Insurance or other financial security a nuclear  
operator must have to cover his civil liability.

- UF security (financial)
- RT insurance
- RT liabilities
- RT victims compensation
- RT workmens compensation

**FINANCING**

(CREDIT ACCOUNTS, CREDIT CARDS,  
DISBURSEMENTS, FINANCIAL  
ASSISTANCE, and GRANTS have been valid  
ETDE descriptors.)

- UF financial assistance
- UF grants
- UF loans
- SF bank accounts
- SF credit accounts
- SF credit cards
- SF disbursements
- SF letters-of-credit
- RT amortization
- RT budgets
- RT capital
- RT cost
- RT cost recovery
- RT depreciation
- RT economics
- RT economy
- RT expenditures
- RT financial incentives
- RT interest rate
- RT investment
- RT lending institutions

**fine control rods**

- USE regulating rods

**FINE STRUCTURE**

- RT energy levels
- RT paschen-back effect
- RT sommerfeld constant
- RT spectra

**fingerprinting (oil spills)**

INIS: 2000-04-12; ETDE: 1978-08-07

- USE oil spills
- USE pattern recognition

**FINGERS**

- \*BT1 hands
- RT nails

**finished oils**

INIS: 2000-04-12; ETDE: 1979-12-10

Products requiring no further refinery  
processing.

(Prior to September 1994, this was a valid  
ETDE descriptor.)

- USE petroleum products

**finishing (surface)**

- USE surface finishing

**FINITE DIFFERENCE METHOD**

- UF coarse mesh method
- \*BT1 iterative methods
- \*BT1 numerical solution
- RT boundary element method
- RT differential equations
- RT finite element method
- RT mathematics
- RT mesh generation
- RT nodal expansion method

**FINITE ELEMENT METHOD**

- BT1 calculation methods
- \*BT1 numerical solution
- NT1 boundary element method
- RT differential equations
- RT finite difference method
- RT mathematics
- RT mesh generation
- RT nodal expansion method

**FINITE-RANGE INTERACTIONS**

- BT1 interactions
- RT nuclear reaction kinetics
- RT zero-range approximation

**FINLAND**

- BT1 developed countries
- \*BT1 scandinavia
- RT oecd

**FINNISH ORGANIZATIONS**

INIS: 1976-08-17; ETDE: 1976-11-01

- BT1 national organizations

**finnish reactor-1**

- USE fir-1 reactor

**FINS**

- RT reactor components
- RT spacers
- RT vanes

**FIORDS**

INIS: 1992-06-04; ETDE: 1980-11-25

Arms of the sea having steep sides, deep  
bottoms, and shallow sills separating them  
from the sea.

- \*BT1 estuaries
- RT salinity
- RT seawater

**FIR-1 REACTOR**

Technical Research Centre of Finland Reactor  
Lab., Espoo, Finland.

- UF finnish reactor-1
- \*BT1 isotope production reactors
- \*BT1 pulsed reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

- \*BT1 training reactors
- \*BT1 triga type reactors

**FIRE DETECTORS**

INIS: 1992-01-22; ETDE: 1986-01-14

- BT1 measuring instruments
- NT1 smoke detectors
- RT alarm systems
- RT fire prevention
- RT safety

**FIRE EXTINGUISHERS**

- RT fire fighting
- RT fires
- RT safety

**FIRE FIGHTING**

INIS: 1985-12-10; ETDE: 1978-04-28

- RT fire extinguishers
- RT fire hazards
- RT fires
- RT safety

**fire flooding**

INIS: 2000-04-12; ETDE: 1988-05-23

- USE in-situ combustion

**FIRE HAZARDS**

- BT1 hazards
- RT fire fighting
- RT fire prevention
- RT fires
- RT spontaneous combustion

**FIRE PREVENTION**

INIS: 1985-12-10; ETDE: 1975-08-19

- RT combustion
- RT fire detectors
- RT fire hazards
- RT fire resistance
- RT fires
- RT safety
- RT spontaneous combustion

**FIRE RESISTANCE**

- RT fire prevention
- RT fires
- RT thermal insulation

**fire stations**

INIS: 2000-04-12; ETDE: 1981-01-09

- USE public buildings

**FIREBALL MODEL**

- UF two-fireball model
- \*BT1 particle models
- RT centauro-type events
- RT cluster emission model

**fireballs**

INIS: 2000-04-12; ETDE: 1979-05-02

(Prior to January 1995, this was a valid ETDE descriptor.)

- SEE flames
- SEE nuclear fireballs

**fireballs (nuclear)**

INIS: 1975-08-22; ETDE: 2002-06-13

- USE nuclear fireballs

**fire damp**

INIS: 2000-04-12; ETDE: 1978-04-28

- USE methane

**fire hose instability**

- USE hose instability

**FIREPLACES**

INIS: 2000-04-12; ETDE: 1977-06-21

- RT chimneys
- RT space heating

**FIRES**

- RT accidents
- RT burns
- RT combustion
- RT explosions
- RT fire extinguishers
- RT fire fighting
- RT fire hazards
- RT fire prevention
- RT fire resistance
- RT flammability
- RT hazards
- RT natural disasters
- RT safety engineering
- RT smoke detectors
- RT spontaneous combustion

**firestreak model**

INIS: 1978-09-28; ETDE: 1978-10-19

- USE nuclear fireball model

**firewood**

INIS: 1992-04-09; ETDE: 1981-01-30

- USE wood fuels

**FIRS**

INIS: 1992-02-05; ETDE: 1985-12-11

- UF abies
- \*BT1 conifers
- \*BT1 trees

**FIRST AID**

- UF cardiopulmonary resuscitation
- UF cpr
- \*BT1 therapy
- RT accidents
- RT health hazards
- RT injuries
- RT safety showers
- RT single intake

**first sound**

INIS: 2000-04-12; ETDE: 1997-09-02

- USE sound waves

**FIRST WALL**

INIS: 1975-08-20; ETDE: 1975-10-01

- BT1 thermonuclear reactor walls
- RT steel-cr10mo2
- RT wall loading

**FISCHER ASSAY**

2000-04-12

- RT oil shales
- RT shale oil

**fischer-tropsch/mobil process**

INIS: 2000-04-12; ETDE: 1984-02-10

Two-stage process from synthesis gas to gasoline with different catalysts in each stage. (Prior to March 1994, this was a valid ETDE descriptor.)

- SEE coal gasification
- SEE coal liquefaction

**FISCHER-TROPSCH SYNTHESIS**

- UF synthine process
- BT1 chemical reactions
- RT hydrocarbons
- RT hydrogenation
- RT sasol-ii process

**fish and wildlife service**

INIS: 2000-04-12; ETDE: 1984-12-26

- USE us fws

**fish culture**

INIS: 1992-05-08; ETDE: 1975-11-12

- USE fisheries

**fish hatcheries**

INIS: 1992-05-08; ETDE: 1981-08-21

- USE fisheries

**fish ladders**

INIS: 1991-08-09; ETDE: 1980-01-24

- USE fish passage facilities

**fish lifts**

INIS: 1991-08-09; ETDE: 1980-01-24

- USE fish passage facilities

**fish locks**

INIS: 1991-08-09; ETDE: 1980-01-24

- USE fish passage facilities

**fish meal**

- USE fish products

**FISH OIL**

INIS: 1976-10-29; ETDE: 1976-12-16

- \*BT1 oils
- RT fishes
- RT hydrocarbons

**FISH PASSAGE FACILITIES**

INIS: 1991-08-09; ETDE: 1980-01-24

Structures that carry water around dams thus facilitating the migration of fish.

- UF fish ladders
- UF fish lifts
- UF fish locks
- UF fishways
- RT anadromous fishes
- RT dams
- RT fishes
- RT hydroelectric power plants
- RT migration

**FISH PRODUCTS**

- UF fish meal

- NT1 seafood
- RT fishes

**FISH SCALES**

INIS: 1992-07-23; ETDE: 1977-05-07

- RT fishes
- RT skin

**FISHBONE INSTABILITY**

INIS: 1984-06-25; ETDE: 1984-07-10

- \*BT1 plasma macroinstabilities

**FISHERIES**

INIS: 1992-05-08; ETDE: 1981-08-04

(Prior to August 1981, this concept in ETDE was indexed to AQUACULTURE.)

- UF fish culture
- UF fish hatcheries
- RT aquaculture
- RT fishing industry

**FISHERY LAWS**

1990-12-15

(Prior to December 1990, this descriptor was spelled FISHERY LAW.)

- BT1 laws
- RT high seas
- RT territorial waters

**FISHES**

Not for the concept of the edible flesh of a fish for which use SEAFOOD.

- UF flukes (fishes)
- UF misgurnus
- BT1 aquatic organisms
- \*BT1 vertebrates
- NT1 anadromous fishes
- NT2 salmon
- NT2 striped bass
- NT1 codfish
- NT1 eel

**NT1** fathead minnow  
**NT1** goldfish  
**NT1** plaice  
**NT1** trout  
**NT1** tuna  
*RT* aquaculture  
*RT* fish oil  
*RT* fish passage facilities  
*RT* fish products  
*RT* fish scales  
*RT* food  
*RT* gills  
*RT* ichthyoplankton  
*RT* seafood  
*RT* surface waters

**FISHING INDUSTRY**

*INIS: 1975-12-17; ETDE: 1976-01-26*

**BT1** industry  
*RT* fisheries

**fishways**

*INIS: 1991-08-09; ETDE: 1980-01-24*

**USE** fish passage facilities

**FISSILE MATERIALS**

*Materials containing nuclides capable of undergoing fission by interaction with slow neutrons.*

**\*BT1** fissionable materials  
*RT* fission  
*RT* nuclear fuels  
*RT* nuclear materials management

**FISSION**

*1996-01-24*

*UF* disintegration (fission)  
**BT1** nuclear reactions  
**NT1** binary fission  
**NT1** cold fission  
**NT1** electrofission  
**NT1** fast fission  
**NT1** photofission  
**NT1** quaternary fission  
**NT1** spontaneous fission  
**NT1** ternary fission  
**NT1** thermal fission  
*RT* bohr-wheeler theory  
*RT* chain reactions  
*RT* criticality  
*RT* fast fission factor  
*RT* fissile materials  
*RT* fission barrier  
*RT* fission fragments  
*RT* fission products  
*RT* fission spectra  
*RT* fission yield  
*RT* fissionable materials  
*RT* fissioning plasma  
*RT* governor model  
*RT* nuclear explosions  
*RT* nuclear fragmentation  
*RT* nuclear fragments  
*RT* order-disorder model  
*RT* quasi-fission  
*RT* reactors  
*RT* recoils  
*RT* scission-point model  
*RT* spallation  
*RT* strutinsky theory  
*RT* thermal fission factor  
*RT* watt fission spectrum

**FISSION BARRIER**

**\*BT1** nuclear potential  
**\*BT1** potential energy  
*RT* excitation  
*RT* fission

**FISSION CHAMBERS**

**\*BT1** ionization chambers

**\*BT1** neutron detectors  
*RT* threshold detectors

**FISSION FOIL DETECTORS**

**\*BT1** neutron detectors  
*RT* activation detectors  
*RT* dielectric track detectors  
*RT* fission thermocouple detectors  
*RT* threshold detectors

**FISSION FRAGMENT DETECTION**

**\*BT1** radiation detection  
*RT* charged particle detection  
*RT* radiation detectors

**FISSION FRAGMENT SPECTROMETERS**

**\*BT1** spectrometers

**FISSION FRAGMENTS**

*UF* fragments (fission)  
**BT1** nuclear fragments  
*RT* fission  
*RT* fission tracks

**FISSION ISOMERS**

*RT* isomeric nuclei  
*RT* spontaneous fission

**fission-like reactions**

*INIS: 1977-04-07; ETDE: 2002-06-13*

**USE** quasi-fission

**FISSION NEUTRONS**

**\*BT1** neutrons  
**NT1** delayed neutrons  
**NT1** prompt neutrons  
*RT* multiplication factors

**FISSION POISONS**

**\*BT1** nuclear poisons

**FISSION PRODUCT RELEASE**

*1995-05-10*

*Coordinate with descriptors for the area of release, such as BIOSPHERE or COOLANTS, and for the specific fission products, if known.*

*UF* release (fission product)  
*RT* containment  
*RT* contamination  
*RT* degassing  
*RT* desorption  
*RT* fission products  
*RT* international nuclear event scale  
*RT* leaks  
*RT* radiation hazards  
*RT* radioactive waste disposal  
*RT* removal  
*RT* source terms

**FISSION PRODUCTS**

*1996-07-18*

(Prior to March 1997 FONG THEORY was a valid ETDE descriptor.)

*UF* debris (nuclear)  
*SF* fong-newton theory  
*SF* fong theory  
**BT1** isotopes  
**\*BT1** radioactive materials  
*RT* accidents  
*RT* containment  
*RT* containment systems  
*RT* fallout  
*RT* fission  
*RT* fission product release  
*RT* fission yield  
*RT* fissium  
*RT* fuel cooling time  
*RT* fuel reprocessing plants  
*RT* nuclear explosions  
*RT* radioactive wastes  
*RT* reactors

*RT* source terms  
*RT* spent fuels

**FISSION RATIO**

**BT1** dimensionless numbers  
*RT* capture-to-fission ratio  
*RT* resonance neutrons

**fission reactor control theory**

*INIS: 1982-11-29; ETDE: 2002-06-13*

**USE** reactor kinetics

**FISSION SPECTRA**

*UF* spectra (fission)  
**BT1** spectra  
*RT* fission  
*RT* prompt neutrons

**FISSION THERMOCOUPLE DETECTORS**

*INIS: 2000-04-12; ETDE: 1979-03-27*

*Neutron detectors using a thin film of fissile material overlaid on a thermocouple junction.*

**\*BT1** neutron detectors  
*RT* fission foil detectors  
*RT* thermocouples

**FISSION TRACKS**

**BT1** particle tracks  
*RT* age estimation  
*RT* fission fragments

**FISSION YIELD**

*UF* yield (fission)  
**\*BT1** nuclear reaction yield  
*RT* fission  
*RT* fission products

**FISSIONABLE MATERIALS**

*Materials containing nuclides capable of undergoing fission by any process.*

**BT1** materials  
**NT1** fissile materials  
*RT* accelerator breeders  
*RT* fission  
*RT* fuel cycle  
*RT* nuclear materials management  
*RT* radioactive wastes

**fissionable materials management**

**USE** nuclear materials management

**FISSIONING PLASMA**

**BT1** plasma  
*RT* chain reactions  
*RT* fission  
*RT* gas fuels  
*RT* space propulsion reactors

**FISSIUM**

*RT* fission products  
*RT* nuclear fuels

**fissured formations**

*INIS: 2000-04-12; ETDE: 1977-08-24*

**USE** fractured reservoirs

**FISTULAE**

**BT1** pathological changes  
*RT* necrosis  
*RT* ulcers

**FITZPATRICK REACTOR**

*Energy Nuclear Operations, Inc., North Scriba, New York, USA.*

*UF* easton power reactor  
*UF* james a. fitzpatrick reactor  
**\*BT1** bwr type reactors

**five-dimensional calculations**

*INIS: 1984-04-04; ETDE: 2002-06-13*

**USE** many-dimensional calculations

**fixation (carbon dioxide)**

1982-02-10

USE carbon dioxide fixation

**fixation (nitrogen)**

INIS: 1982-02-10; ETDE: 2002-06-13

USE nitrogen fixation

**fixation (waste treatment)**

USE solidification

**fixed beds**

INIS: 1992-03-02; ETDE: 2001-01-23

USE packed beds

**FIXED MIRROR COLLECTORS**

INIS: 2000-04-12; ETDE: 1978-08-07

\*BT1 concentrating collectors

**fixed-price contracts**

INIS: 2000-04-12; ETDE: 1983-03-23

(Prior to February 1995, this was a valid ETDE descriptor.)

USE contracts

**fixed scattering centres****approximation**

INIS: 1984-04-04; ETDE: 2003-01-10

USE fsc approximation

**flagyl**

USE metronidazole

**FLAMANVILLE-1 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

\*BT1 pwr type reactors

**FLAMANVILLE-2 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

\*BT1 pwr type reactors

**flame chamber process**

INIS: 2000-04-12; ETDE: 1976-11-01

High-temperature waste combustion process in which waste is fed into ring column created between two concentric cylinders causing combustion steps to be above each other rather than following each other.

(Prior to February 1995, this was a valid ETDE descriptor.)

USE waste processing

**FLAME EXTINCTION**

2007-01-08

RT flame propagation

RT flames

**FLAME PHOTOMETRY**

INIS: 2000-04-12; ETDE: 1980-11-08

BT1 photometry

RT spectrophotometry

RT spectroscopy

**FLAME PROPAGATION**

INIS: 1998-12-08; ETDE: 1976-09-28

RT blowoff

RT combustion kinetics

RT flame extinction

RT flames

RT flashback

**flame spectrometry**

INIS: 2000-04-12; ETDE: 1980-08-12

USE emission spectroscopy

**FLAME SPRAYING**

\*BT1 spray coating

**flame temperature**

INIS: 2000-04-12; ETDE: 1975-11-11

USE combustion properties

**FLAMES**

SF fireballs

NT1 laminar flames

NT1 verneuil method

RT blowoff

RT combustion

RT flame extinction

RT flame propagation

RT flashback

RT ignition

RT inhibition

RT stagnation point

**FLAMMABILITY**

INIS: 1977-11-21; ETDE: 1976-04-19

BT1 combustion properties

RT combustion

RT fires

RT ignition

**FLANGES**

RT joints

**FLARING**

INIS: 1999-05-18; ETDE: 1979-12-10

RT combustion

RT energy losses

RT natural gas

**FLASH BURNS**

\*BT1 burns

**FLASH HEATING**

BT1 heating

RT distillation

RT evaporation

RT steam

**FLASH HYDROLYSIS****PROCESS**

INIS: 2000-04-12; ETDE: 1976-07-07

Process for converting coal or biomass to liquid and gaseous hydrocarbons directly by heating with preheated hydrogen to reaction temperature followed by rapid cooling.

\*BT1 coal gasification

\*BT1 coal liquefaction

\*BT1 pyrolysis

RT hydrogenation

**flash point**

INIS: 1992-07-10; ETDE: 1975-11-11

USE combustion properties

**FLASH TUBES**

\*BT1 gas discharge tubes

**FLASH WELDING**

\*BT1 resistance welding

**FLASHBACK**

INIS: 2000-04-12; ETDE: 1977-01-28

Backward burning of a flame into the lip of a burner or torch.

RT blowoff

RT burners

RT chemical explosions

RT flame propagation

RT flames

**FLASHED STEAM SYSTEMS**

2000-04-12

Systems in which a well-head mixture of hot water and steam is flashed in a separator; the saturated steam, then, is used to drive multistage turbines, and the remaining hot liquid is discarded.

\*BT1 steam systems

RT flashing

RT geothermal energy conversion

RT geothermal power plants

RT steam

RT steam separators

RT steam turbines

RT thermodynamic cycles

**FLASHING**

1976-05-07

\*BT1 evaporation

RT flashed steam systems

RT steam

**FLASHOVER**

INIS: 1985-12-10; ETDE: 1975-09-11

BT1 electric discharges

RT breakdown

RT electric arcs

RT electric currents

RT electric sparks

RT electrical faults

**flasks**

USE casks

**FLAT MAGNETIC SPECTROMETERS**

UF double focusing spectrometers

UF iron-free spectrometers

UF orange-type spectrometers

UF semicircular spectrometers

UF siegbahn spectrometers

UF spiral orbit spectrometers

\*BT1 magnetic spectrometers

**flat mirrors**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE mirrors

**FLAT PLATE COLLECTORS**

1998-12-28

\*BT1 solar collectors

NT1 trickle-type collectors

RT solar air heaters

**flattening (neutron flux)**

USE neutron flux flattening

**FLATTOP REACTOR**

LANL, Los Alamos, New Mexico, USA.

\*BT1 zero power reactors

**flavonoids**

ETDE: 1975-09-11

(Prior to January 2004 this was a valid descriptor.)

USE flavonoids

**FLAVINES**

\*BT1 acridines

\*BT1 amines

NT1 acriflavine

NT1 proflavine

**flavins**

USE isoalloxazines

**FLAVONES**

1996-06-28

UF hesperidin

\*BT1 flavonoids

NT1 morin

NT1 quercetin

**FLAVONOIDS**

2004-01-14

(Prior to January 2004 this descriptor was spelled FLAVENOIDS.)

UF flavenoids

\*BT1 organic oxygen compounds

NT1 flavones

NT2 morin

NT2 quercetin

**flavoprotein enzymes**

1996-07-18

USE diaphorase

**FLAVOR**

Not for elementary particles.

BT1 organoleptic properties

RT chemoreceptors

RT spices

RT taste buds

**FLAVOR MODEL**

INIS: 1977-07-05; ETDE: 1977-10-19

UF beauty model

UF bottom quark model

UF top quark model

UF truth model

\*BT1 quark model

RT beauty particles

RT charmonium

RT kobayashi-maskawa matrix

RT quantum chromodynamics

RT quantum flavordynamics

RT quantum numbers

RT top particles

RT toponium

**flavordynamics**

INIS: 2000-04-12; ETDE: 1979-05-25

USE quantum flavordynamics

**flaws**

USE defects

**FLAX PLANTS**

UF linseed plants

\*BT1 magnoliopsida

RT linseed oil

**flaxseed oil**

USE linseed oil

**FLEXIBILITY**

UF stiffness

\*BT1 tensile properties

RT flexural strength

**flexitime**

INIS: 2000-04-12; ETDE: 1977-06-21

USE alternative work schedules

**FLEXURAL STRENGTH**

UF strength (flexural)

BT1 mechanical properties

RT bending

RT flexibility

**FLIBE**

INIS: 1975-08-20; ETDE: 1975-10-01

Molten salt of fluorine, lithium and beryllium.

\*BT1 molten salts

RT beryllium fluorides

RT breeding blankets

RT lithium fluorides

RT thermonuclear reactor walls

**FLIES**

\*BT1 diptera

NT1 fruit flies

NT2 anastrepha

NT2 ceratitis capitata

NT2 dacus

NT3 dacus oleae

NT2 drosophila

NT1 glossina

NT1 hylemya antiqua

NT1 screwworm fly

**FLIGHT TESTING**

INIS: 1999-08-19; ETDE: 1981-01-09

BT1 testing

RT aircraft

RT missiles

RT reentry vehicles

**flintlock operation**

INIS: 2000-04-12; ETDE: 1976-11-01

(Prior to September 1994, this was a valid

ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**FLIP-FLOP CIRCUITS**

UF eccles-jordan circuits

\*BT1 multivibrators

**floating nuclear power plant-sturgis**

1993-11-08

USE mh-1a reactor

**floating nuclear power plants**

USE offshore nuclear power plants

**FLOATING ROOF TANKS**

INIS: 1992-07-08; ETDE: 1981-08-04

\*BT1 tanks

RT petroleum

RT storage facilities

**floating zone techniques**

USE zone melting

**FLOCCULATION**

UF coagulation (colloid)

UF colloid coagulation

\*BT1 precipitation

RT coprecipitation

**FLOOD CONTROL**

1999-05-12

BT1 control

RT coastal regions

RT dams

RT hydroelectric power plants

RT power generation

RT rivers

**flooding fluids**

INIS: 2000-04-12; ETDE: 1983-11-09

USE displacement fluids

**FLOODS**

RT drainage

RT exceptional natural disaster

RT hydrology

RT natural disasters

RT runoff

RT surface waters

**FLOORS**

INIS: 1999-08-04; ETDE: 1975-09-11

UF heating floors

RT basements

RT buildings

**FLOQUET FUNCTION**

BT1 functions

RT differential equations

**florence oil**

USE olive oil

**florencite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE phosphate minerals

USE radioactive minerals

**FLORIDA**

1997-06-17

\*BT1 usa

NT1 cape kennedy

RT biscayne bay

RT chattahoochee river

RT everglades national park

RT pinellas plant

RT us east coast

RT us gulf coast

**florida current**

INIS: 1992-02-18; ETDE: 1977-06-21

USE gulf stream

**florida university reactor**

USE ufr reactor

**FLOTATION**

BT1 separation processes

RT coal preparation

RT foam separation

RT ore enrichment

RT ore processing

RT waste processing

**FLOUR**

BT1 food

RT bread

RT cereals

**flow (blood)**

INIS: 2000-04-12; ETDE: 1980-11-08

USE blood flow

**flow (fluid)**

USE fluid flow

**FLOW BLOCKAGE**

RT fluid flow

RT loss of flow

**FLOW COUNTERS**

UF fluid flow counters

\*BT1 radiation detectors

RT geiger-mueller counters

RT proportional counters

**flow cytometers**

INIS: 2000-04-12; ETDE: 1976-09-14

USE cell flow systems

**FLOW MODELS**

UF models (flow)

BT1 mathematical models

RT fluid flow

RT thermal hydraulics

**FLOW RATE**

RT dynamic function studies

RT flow regulators

RT flowmeters

RT fluid flow

RT hydraulics

RT mach number

RT plasma eaters

RT pressure drop

RT time dependence

RT velocity

**FLOW REGULATORS**

UF dampers (gas flow)

UF draft control systems

\*BT1 control equipment

NT1 baffles

NT1 valves

NT2 relief valves

NT2 water faucets

RT flow rate

RT penstocks

**flow sheets**

USE flowsheets

**FLOW STRESS**

BT1 stresses

RT plasticity

**FLOW VISUALIZATION**

INIS: 1986-10-29; ETDE: 1984-03-06

- RT aerosols  
RT bubbles  
RT fluid flow

**FLOWERS**

For reproductive organs of plants.

- NT1 stamen  
RT plants  
RT pollen  
RT reproduction

**FLOWMETERS**

- \*BT1 meters  
NT1 plasma eaters  
RT anemometers  
RT flow rate  
RT nozzles  
RT orifices  
RT pitot tubes  
RT venturi tubes

**FLWSHEETS**

- UF flow sheets  
\*BT1 diagrams

**FLUCTUATIONS**

INIS: 1999-07-15; ETDE: 1975-07-29

Stochastic variations.

- BT1 variations  
NT1 landau fluctuations  
RT noise

**FLUE GAS**

1976-07-16

- UF combustion gases  
\*BT1 gaseous wastes  
RT combustion products  
RT condensing boilers  
RT dry scrubbers  
RT scrubbing  
RT selective catalytic reduction

**fluence (neutron)**

- USE neutron fluence

**fluid equations (plasma)**

INIS: 1988-11-16; ETDE: 2002-06-13

- USE plasma fluid equations

**FLUID FLOW**

(From September 1979 till February 1997

DISPLACEMENT RATES was a valid ETDE descriptor.)

- UF flow (fluid)  
SF displacement rates  
NT1 capillary flow  
NT1 compressible flow  
NT1 critical flow  
NT1 film flow  
NT1 gas flow  
NT2 air flow  
NT2 knudsen flow  
NT2 slip flow  
NT1 hypersonic flow  
NT1 incompressible flow  
NT2 ideal flow  
NT1 laminar flow  
NT1 liquid flow  
NT1 multiphase flow  
NT1 potential flow  
NT1 solids flow  
NT1 steady flow  
NT2 ideal flow  
NT1 subsonic flow  
NT1 supersonic flow  
NT1 transition flow  
NT1 transonic flow  
NT1 turbulent flow  
NT1 two-phase flow

- NT1 unsteady flow  
NT1 viscous flow  
NT2 couette flow  
NT1 vortex flow  
RT advection  
RT aerodynamic heating  
RT baffles  
RT bernoulli law  
RT boundary layers  
RT cavitation  
RT continuity equations  
RT darcy law  
RT diffusers  
RT drainage  
RT flow blockage  
RT flow models  
RT flow rate  
RT flow visualization  
RT fluid mechanics  
RT fluid-structure interactions  
RT fluids  
RT friction factor  
RT froude number  
RT hartmann number  
RT heat transfer  
RT helmholtz instability  
RT hydraulics  
RT hydrodynamics  
RT jets  
RT magnetohydrodynamics  
RT mass transfer  
RT osean method  
RT pressure drop  
RT rayleigh-taylor instability  
RT reactor cooling systems  
RT rheology  
RT shear  
RT stagnation  
RT superfluidity  
RT surges  
RT thermal hydraulics  
RT turbulence  
RT two-stream instability  
RT viscosity

**fluid flow counters**

- USE flow counters

**FLUID FUELED REACTORS**

- UF dust fueled reactors  
BT1 reactors  
NT1 gas fueled reactors  
NT2 coaxial flow reactors  
NT2 light bulb reactors  
NT2 plasma core assembly  
NT1 liquid homogeneous reactors  
NT2 aqueous homogeneous reactors  
NT3 ai-1-77 reactor  
NT3 argus reactor  
NT3 ber-2 reactor  
NT3 byu 1-77 reactor  
NT3 cesnef reactor  
NT3 dr-1 reactor  
NT3 ffr reactor  
NT3 gidra reactor  
NT3 hre-2 reactor  
NT3 jrr-1 reactor  
NT3 kewb reactor  
NT3 kstr reactor  
NT3 ncsr-1 reactor  
NT3 nevada university reactor  
NT3 pmc-1-77 reactor  
NT3 supo reactor  
NT3 wrrr reactor  
NT1 molten salt fueled reactors  
RT fluidized bed reactors  
RT liquid metal fuels

**FLUID INJECTION**

INIS: 2000-01-05; ETDE: 1976-03-11

- NT1 gas injection  
NT1 miscible-phase displacement  
NT2 carbon dioxide injection  
NT2 microemulsion flooding  
NT1 steam injection  
NT1 waterflooding  
NT2 caustic flooding  
RT displacement fluids  
RT enhanced recovery  
RT fluid injection processes  
RT hydraulic fracturing  
RT hydrology  
RT pressurization  
RT well stimulation

**FLUID INJECTION PROCESSES**

2000-04-12

- UF cyclic steam injection process  
UF huff and puff process  
UF steam drive process  
NT1 cold-water processes  
NT1 hot-water processes  
NT1 steam soak processes  
RT enhanced recovery  
RT fluid injection  
RT oil sands

**FLUID MECHANICS**

- UF computational fluid dynamics  
BT1 mechanics  
NT1 aerodynamics  
NT1 electrogasdynamics  
NT1 hydraulics  
NT2 thermal hydraulics  
NT1 hydrodynamics  
NT2 electrohydrodynamics  
NT2 magnetohydrodynamics  
NT1 magnetogasdynamics  
NT1 pneumatics  
RT aerodynamic heating  
RT drag  
RT fluid flow  
RT fluid-structure interactions  
RT fluids  
RT friction factor  
RT general circulation models  
RT gravity waves  
RT hydraulic conductivity  
RT hydrostatics  
RT navier-stokes equations  
RT stagnation point

**FLUID POISON CONTROL**

1999-05-12

- UF chemical shimming  
BT1 control  
RT burnable poisons  
RT poisoning  
RT reactor control systems  
RT scram  
RT soluble poisons

**FLUID-STRUCTURE INTERACTIONS**

1980-11-07

Interactions between fluids, usually coolants, and structural components involving distortion of components such as shields, spacers, supports etc. in reactors.

- RT fluid flow  
RT fluid mechanics  
RT fuel-coolant interactions  
RT reactor components  
RT reactor cooling systems  
RT reactor cores

**FLUID WITHDRAWAL**

INIS: 2000-04-12; ETDE: 1975-11-11

The process of withdrawing fluids such as ground water from a source, also the quantity of fluid withdrawn.

UF ground water withdrawal  
RT geothermal fluids  
RT ground water

**fluidic computers**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

USE computers

**FLUIDIC CONTROL DEVICES**

\*BT1 control equipment  
BT1 fluidic devices

**FLUIDIC DEVICES**

NT1 fluidic control devices  
RT amplification

**FLUIDIZATION**

1975-12-09

RT fluidized-bed combustion  
RT fluidized bed reactors  
RT fluidized beds  
RT suspensions

**fluidized bed**

2000-04-12

(Prior to July 1985, this was a valid ETDE descriptor.)

USE fluidized beds

**FLUIDIZED BED BOILERS**

INIS: 1992-03-12; ETDE: 1982-03-11

UF circulating fluidized bed boilers  
BT1 boilers  
RT fluidized-bed combustion  
RT fluidized-bed combustors  
RT fluidized beds

**FLUIDIZED-BED COMBUSTION**

1976-02-11

The combustion of pulverized coal (or other material) in a fluidized bed with limestone or dolomite both to suppress sulfur emission (by chemically combining the sulfur with the bed material) and to limit the tendency of atmospheric nitrogen and oxygen to combine into nitrogen oxides (by limiting the temperature of the combustion reaction).

\*BT1 combustion  
RT coal  
RT fluidization  
RT fluidized bed boilers  
RT fluidized-bed combustors

**FLUIDIZED-BED COMBUSTORS**

INIS: 1993-08-02; ETDE: 1976-11-01

BT1 combustors  
RT coal  
RT fluidized bed boilers  
RT fluidized-bed combustion  
RT fluidized beds  
RT pollution control equipment

**fluidized bed heat exchangers**

INIS: 2000-04-12; ETDE: 1977-07-23

(Prior to February 1997 this was a valid ETDE descriptor.)

USE fluidized beds  
USE heat exchangers

**FLUIDIZED BED HYDROGENATION PROCESS**

INIS: 2000-04-12; ETDE: 1976-01-23

Production of methane- and ethane-rich gas at elevated temperatures and pressure from hydrocarbons.

UF fbh process  
BT1 sng processes  
RT hydrocarbons  
RT petroleum

**FLUIDIZED BED REACTORS**

\*BT1 fuel dispersion reactors  
RT fluid fueled reactors  
RT fluidization

**FLUIDIZED BED REFUSE GASIFICATION**

INIS: 1993-03-25; ETDE: 1976-11-01

Partial oxidation pyrolysis using air and air or steam for gasification and catalysts to increase thermal efficiency. May be used for coal or oil shale gasification. Produces fuel gas.

\*BT1 gasification  
\*BT1 waste processing  
RT coal gasification  
RT oil shales

**FLUIDIZED BEDS**

INIS: 1975-12-09; ETDE: 1976-03-25

UF circulating fluidized beds  
UF fluidized bed  
UF fluidized bed heat exchangers  
RT cabf process  
RT chemical reactions  
RT chemical reactors  
RT ebullated bed  
RT fluidization  
RT fluidized bed boilers  
RT fluidized-bed combustors  
RT packed beds  
RT suspensions

**FLUIDS**

Not for the concepts covered by BODY FLUIDS.

NT1 cryogenic fluids  
NT1 cutting fluids  
NT1 displacement fluids  
NT1 drilling fluids  
NT1 fracturing fluids  
NT1 gases  
NT2 air  
NT3 compressed air  
NT3 surface air  
NT2 associated gas  
NT2 coal gas  
NT2 compressed gases  
NT3 compressed air  
NT2 cosmic gases  
NT2 cover gas  
NT2 dissociating gases  
NT2 dissolved gases  
NT2 exhaust gases  
NT2 fuel gas  
NT3 high btu gas  
NT3 intermediate btu gas  
NT4 carburetted water gas  
NT4 town gas  
NT4 water gas  
NT3 landfill gas  
NT3 low btu gas  
NT4 producer gas  
NT3 natural gas  
NT4 abiogenic gas  
NT4 liquefied natural gas  
NT2 ionized gases  
NT3 fully ionized gases  
NT4 lorentz gas

NT3 strongly ionized gases

NT3 weakly ionized gases

NT2 pyrolytic gases

NT2 rare gases

NT3 argon

NT3 helium

NT3 krypton

NT3 neon

NT3 radon

NT3 xenon

NT2 rarefied gases

NT2 refinery gases

NT2 shale gas

NT2 synthesis gas

NT2 vapors

NT3 water vapor

NT2 volcanic gases

NT1 geothermal fluids

NT2 fumarolic fluids

NT2 natural steam

NT1 heat transfer fluids

NT1 liquids

NT2 black liquids

NT2 coal liquids

NT2 liquefied gases

NT3 liquefied natural gas

NT3 liquefied petroleum gases

NT2 liquid crystals

NT2 liquid metals

NT2 natural gas liquids

NT3 gas condensates

NT3 lease condensates

NT3 liquefied petroleum gases

NT3 plant condensates

NT1 quantum fluids

NT2 helium ii

NT1 reservoir fluids

NT1 working fluids

NT2 hydraulic fluids

NT2 refrigerants

RT fluid flow

RT fluid mechanics

RT pour point

**flukes (fishes)**

INIS: 1982-01-13; ETDE: 2002-06-13

USE fishes

**flukes (trematodes)**

1982-01-13

USE trematodes

**fluor econamine process**

2000-04-12

Process using an aqueous solution of the primary alkanolamine, diglycolamine, for the removal of acidic impurities hydrogen sulfide and carbon dioxide.

(Prior to February 1995, this was a valid ETDE descriptor.)

USE desulfurization

**fluor solvent process**

2000-04-12

Process using anhydrous propylene carbonate for removal of high concentrations of acidic impurities carbon dioxide and hydrogen sulfide from natural or synthetic gas streams. (Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**fluoranthene**

INIS: 2000-04-12; ETDE: 1980-11-25

USE condensed aromatics

**FLUORATES**

Specific compounds should be indexed by coordination of a descriptor of the form



(CATION) COMPOUNDS and the above anion descriptor.

- \*BT1 fluorine compounds
- BT1 oxygen compounds

## FLUORENE

- \*BT1 condensed aromatics
- \*BT1 hydrocarbons

## FLUORESCCEIN

1999-07-08

- BT1 dyes
- \*BT1 hydroxy acids
- \*BT1 polyphenols
- NT1 erythrosine
- RT fluorescence
- RT phthalic acid

## FLUORESCENCE

- UF quenching (fluorescence)
- \*BT1 luminescence
- NT1 resonance fluorescence
- RT fluorescein
- RT fluorescence spectroscopy
- RT radiationless decay
- RT superradiance
- RT x-ray fluorescence analysis

## FLUORESCENCE SPECTROSCOPY

- UF atomic fluorescence spectroscopy
- UF fluorimetry
- UF molecular fluorescence spectroscopy
- \*BT1 emission spectroscopy
- RT fluorescence
- RT fluorimeters
- RT laser spectroscopy
- RT quantitative chemical analysis
- RT x-ray fluorescence analysis

## fluorescent concentrators

INIS: 2000-04-12; ETDE: 1980-02-11  
USE luminescent concentrators

## FLUORESCENT LAMPS

INIS: 2000-04-12; ETDE: 1977-07-23  
UF litek lamp  
BT1 light bulbs  
RT ballasts  
RT lighting systems

## fluorescent penetrant tests

USE liquid penetrant inspection

## FLUORIDE VOLATILITY PROCESS

- \*BT1 pyrometallurgy
- \*BT1 reprocessing
- RT distillation
- RT refining
- RT volatility

## FLUORIDES

1996-11-13

- \*BT1 fluorine compounds
- \*BT1 halides
- NT1 actinium fluorides
- NT1 aluminium fluorides
- NT1 americium fluorides
- NT1 ammonium fluorides
- NT1 antimony fluorides
- NT1 argon fluorides
- NT1 arsenic fluorides
- NT1 barium fluorides
- NT1 berkelium fluorides
- NT1 beryllium fluorides
- NT1 bismuth fluorides
- NT1 boron fluorides
- NT1 bromine fluorides
- NT1 cadmium fluorides
- NT1 calcium fluorides
- NT1 californium fluorides
- NT1 carbon fluorides
- NT1 cerium fluorides

- NT1 cesium fluorides
- NT1 chlorine fluorides
- NT1 chromium fluorides
- NT1 cobalt fluorides
- NT1 copper fluorides
- NT1 curium fluorides
- NT1 dysprosium fluorides
- NT1 einsteinium fluorides
- NT1 erbium fluorides
- NT1 europium fluorides
- NT1 gadolinium fluorides
- NT1 gallium fluorides
- NT1 germanium fluorides
- NT1 gold fluorides
- NT1 hafnium fluorides
- NT1 holmium fluorides
- NT1 indium fluorides
- NT1 iodine fluorides
- NT1 iridium fluorides
- NT1 iron fluorides
- NT1 krypton fluorides
- NT1 lanthanum fluorides
- NT1 lead fluorides
- NT1 lithium fluorides
- NT1 lutetium fluorides
- NT1 magnesium fluorides
- NT1 manganese fluorides
- NT1 mercury fluorides
- NT1 molybdenum fluorides
- NT1 neodymium fluorides
- NT1 neon fluorides
- NT1 neptunium fluorides
- NT1 nickel fluorides
- NT1 niobium fluorides
- NT1 nitrogen fluorides
- NT1 osmium fluorides
- NT1 palladium fluorides
- NT1 phosphorus fluorides
- NT1 platinum fluorides
- NT1 plutonium fluorides
- NT1 polonium fluorides
- NT1 potassium fluorides
- NT1 praseodymium fluorides
- NT1 promethium fluorides
- NT1 protactinium fluorides
- NT1 radium fluorides
- NT1 radon fluorides
- NT1 rhenium fluorides
- NT1 rhodium fluorides
- NT1 rubidium fluorides
- NT1 ruthenium fluorides
- NT1 samarium fluorides
- NT1 scandium fluorides
- NT1 selenium fluorides
- NT1 silicon fluorides
- NT1 silver fluorides
- NT1 sodium fluorides
- NT1 strontium fluorides
- NT1 sulfur fluorides
- NT1 tantalum fluorides
- NT1 technetium fluorides
- NT1 tellurium fluorides
- NT1 terbium fluorides
- NT1 thallium fluorides
- NT1 thorium fluorides
- NT1 thulium fluorides
- NT1 tin fluorides
- NT1 titanium fluorides
- NT1 tungsten fluorides
- NT1 uranium fluorides
- NT2 uranium hexafluoride
- NT2 uranium pentafluoride
- NT2 uranium tetrafluoride
- NT1 uranyl fluorides
- NT1 vanadium fluorides
- NT1 xenon fluorides
- NT1 ytterbium fluorides
- NT1 yttrium fluorides
- NT1 zinc fluorides

- NT1 zirconium fluorides
- RT fluorine additions
- RT hydrofluoric acid
- RT oxyfluorides

## FLUORIMETERS

Instrument for measuring fluorescent radiation emitted by a sample exposed to monochromatic radiation, used in chemical analysis or to determine the intensity of the radiation producing fluorescence.

- UF fluorimeters
- BT1 measuring instruments
- RT fluorescence spectroscopy

## fluorimetry

USE fluorescence spectroscopy

## FLUORINATED ALICYCLIC HYDROCARBONS

2000-04-12

- \*BT1 halogenated alicyclic hydrocarbons
- \*BT1 organic fluorine compounds

## FLUORINATED ALIPHATIC HYDROCARBONS

1991-09-30

(Prior to October 1991, this concept was indexed by ORGANIC FLUORINE COMPOUNDS.)

- UF poly(vinylidene fluoride)
- \*BT1 halogenated aliphatic hydrocarbons
- \*BT1 organic fluorine compounds
- NT1 carbon tetrafluoride
- NT1 fluoroform
- NT1 methyl fluoride
- NT1 polytetrafluoroethylene
- NT2 teflon
- NT1 tedlar
- RT chlorofluorocarbons

## FLUORINATED AROMATIC HYDROCARBONS

1991-10-01

- \*BT1 halogenated aromatic hydrocarbons
- \*BT1 organic fluorine compounds

## fluorinated hydrocarbons

ETDE: 2002-06-13

USE organic fluorine compounds

## FLUORINATION

- \*BT1 halogenation

## FLUORINE

- UF fluorine fluorides
- \*BT1 halogens

## FLUORINE 14

- \*BT1 fluorine isotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 proton decay radioisotopes

## FLUORINE 15

INIS: 1978-11-24; ETDE: 1978-09-11

- \*BT1 fluorine isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei

## FLUORINE 16

- \*BT1 fluorine isotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei

## FLUORINE 16 TARGET

INIS: 1992-09-22; ETDE: 1977-05-07  
BT1 targets

## FLUORINE 17

- \*BT1 beta-plus decay radioisotopes
- \*BT1 fluorine isotopes
- \*BT1 light nuclei

\*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**FLUORINE 17 TARGET**  
*1998-01-29*  
 BT1 targets

**FLUORINE 18**  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 fluorine isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**FLUORINE 18 TARGET**  
*INIS: 1980-04-02; ETDE: 1979-08-09*  
 BT1 targets

**FLUORINE 19**  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes  
*RT* fluorine 19 reactions

**FLUORINE 19 BEAMS**  
*INIS: 1976-10-07; ETDE: 1976-11-01*  
 \*BT1 ion beams

**FLUORINE 19 REACTIONS**  
 \*BT1 heavy ion reactions  
*RT* fluorine 19

**FLUORINE 19 TARGET**  
*ETDE: 1976-07-09*  
 BT1 targets

**FLUORINE 20**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**FLUORINE 21**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**FLUORINE 22**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**FLUORINE 23**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**FLUORINE 24**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**FLUORINE 25**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

**FLUORINE 26**  
*INIS: 1980-07-24; ETDE: 1980-02-11*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 fluorine isotopes

\*BT1 light nuclei  
 \*BT1 odd-odd nuclei

**FLUORINE 27**  
*INIS: 1986-04-02; ETDE: 1981-12-14*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

**FLUORINE 28**  
*2007-01-30*  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**FLUORINE 29**  
*INIS: 1989-09-14; ETDE: 1989-10-16*  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

**FLUORINE 30**  
*2007-01-30*  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**FLUORINE 31**  
*2007-01-30*  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei

**FLUORINE ADDITIONS**  
*1989-07-20*  
*RT* crystal doping  
*RT* doped materials  
*RT* fluorides

*fluorine bromides*  
 USE bromine fluorides

*fluorine chlorides*  
 USE chlorine fluorides

**FLUORINE COMPLEXES**  
 BT1 complexes

**FLUORINE COMPOUNDS**  
 BT1 halogen compounds  
 NT1 fluorates  
 NT1 fluorides  
 NT2 actinium fluorides  
 NT2 aluminium fluorides  
 NT2 americium fluorides  
 NT2 ammonium fluorides  
 NT2 antimony fluorides  
 NT2 argon fluorides  
 NT2 arsenic fluorides  
 NT2 barium fluorides  
 NT2 berkelium fluorides  
 NT2 beryllium fluorides  
 NT2 bismuth fluorides  
 NT2 boron fluorides  
 NT2 bromine fluorides  
 NT2 cadmium fluorides  
 NT2 calcium fluorides  
 NT2 californium fluorides  
 NT2 carbon fluorides  
 NT2 cerium fluorides  
 NT2 cesium fluorides  
 NT2 chlorine fluorides  
 NT2 chromium fluorides  
 NT2 cobalt fluorides  
 NT2 copper fluorides  
 NT2 curium fluorides  
 NT2 dysprosium fluorides  
 NT2 einsteinium fluorides

NT2 erbium fluorides  
 NT2 europium fluorides  
 NT2 gadolinium fluorides  
 NT2 gallium fluorides  
 NT2 germanium fluorides  
 NT2 gold fluorides  
 NT2 hafnium fluorides  
 NT2 holmium fluorides  
 NT2 indium fluorides  
 NT2 iodine fluorides  
 NT2 iridium fluorides  
 NT2 iron fluorides  
 NT2 krypton fluorides  
 NT2 lanthanum fluorides  
 NT2 lead fluorides  
 NT2 lithium fluorides  
 NT2 lutetium fluorides  
 NT2 magnesium fluorides  
 NT2 manganese fluorides  
 NT2 mercury fluorides  
 NT2 molybdenum fluorides  
 NT2 neodymium fluorides  
 NT2 neon fluorides  
 NT2 neptunium fluorides  
 NT2 nickel fluorides  
 NT2 niobium fluorides  
 NT2 nitrogen fluorides  
 NT2 osmium fluorides  
 NT2 palladium fluorides  
 NT2 phosphorus fluorides  
 NT2 platinum fluorides  
 NT2 plutonium fluorides  
 NT2 polonium fluorides  
 NT2 potassium fluorides  
 NT2 praseodymium fluorides  
 NT2 promethium fluorides  
 NT2 protactinium fluorides  
 NT2 radium fluorides  
 NT2 radon fluorides  
 NT2 rhenium fluorides  
 NT2 rhodium fluorides  
 NT2 rubidium fluorides  
 NT2 ruthenium fluorides  
 NT2 samarium fluorides  
 NT2 scandium fluorides  
 NT2 selenium fluorides  
 NT2 silicon fluorides  
 NT2 silver fluorides  
 NT2 sodium fluorides  
 NT2 strontium fluorides  
 NT2 sulfur fluorides  
 NT2 tantalum fluorides  
 NT2 technetium fluorides  
 NT2 tellurium fluorides  
 NT2 terbium fluorides  
 NT2 thallium fluorides  
 NT2 thorium fluorides  
 NT2 thulium fluorides  
 NT2 tin fluorides  
 NT2 titanium fluorides  
 NT2 tungsten fluorides  
 NT2 uranium fluorides  
 NT3 uranium hexafluoride  
 NT3 uranium pentafluoride  
 NT3 uranium tetrafluoride  
 NT2 uranyl fluorides  
 NT2 vanadium fluorides  
 NT2 xenon fluorides  
 NT2 ytterbium fluorides  
 NT2 yttrium fluorides  
 NT2 zinc fluorides  
 NT2 zirconium fluorides

NT1 fluorine oxides  
 NT1 fluoroborates  
 NT1 fluoroboric acid  
 NT1 hydrofluoric acid  
 NT1 hypofluorous acid  
 NT1 oxyfluorides  
*RT* organic fluorine compounds

**fluorine fluorides**

USE fluorine

**fluorine iodides**

USE iodine fluorides

**FLUORINE IONS**

\*BT1 ions

**FLUORINE ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 fluorine 14  
 NT1 fluorine 15  
 NT1 fluorine 16  
 NT1 fluorine 17  
 NT1 fluorine 18  
 NT1 fluorine 19  
 NT1 fluorine 20  
 NT1 fluorine 21  
 NT1 fluorine 22  
 NT1 fluorine 23  
 NT1 fluorine 24  
 NT1 fluorine 25  
 NT1 fluorine 26  
 NT1 fluorine 27  
 NT1 fluorine 28  
 NT1 fluorine 29  
 NT1 fluorine 30  
 NT1 fluorine 31

**FLUORINE OXIDES**

UF oxygen fluorides  
 \*BT1 fluorine compounds  
 \*BT1 oxides  
 RT oxyfluorides

**FLUORITE**

\*BT1 halide minerals  
 RT calcium fluorides

**FLUOROBORATES**

1999-04-07

BT1 boron compounds  
 \*BT1 fluorine compounds  
 RT boron fluorides  
 RT fluoroboric acid

**FLUOROBORIC ACID**

INIS: 1991-09-16; ETDE: 1985-02-22

BT1 boron compounds  
 \*BT1 fluorine compounds  
 \*BT1 inorganic acids  
 RT fluoroborates

**fluorod**

USE rpl dosimeters

**FLUORODEOXYGLUCOSE**

INIS: 1986-05-23; ETDE: 1985-10-25

\*BT1 antimetabolites  
 RT glucose

**fluorodeoxyuridine**

USE fudr

**FLUOROFORM**

\*BT1 fluorinated aliphatic hydrocarbons  
 RT hydrocarbons  
 RT methane

**fluorometers**

ETDE: 2002-06-13

USE fluorimeters

**FLUOROSCOPY**

\*BT1 biomedical radiography  
 RT image intensifiers  
 RT x radiation

**FLUOROURACILS**

\*BT1 antimetabolites  
 \*BT1 organic fluorine compounds

\*BT1 uracils

NT1 fudr

**fluorox process**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE reprocessing

**fluors**

INIS: 1975-12-17; ETDE: 1976-05-17

USE phosphors

**fluorex process**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE reprocessing

**FLUTE INSTABILITY**

UF interchange instability  
 \*BT1 plasma macroinstabilities  
 RT hydrodynamics  
 RT mercier criterion

**flux (cosmic ray)**

USE cosmic ray flux

**flux (magnetic)**

USE magnetic flux

**flux (metallurgy)**

USE metallurgical flux

**flux (neutron)**

USE neutron flux

**flux (radiation)**

INIS: 1976-03-25; ETDE: 1976-05-17

USE radiation flux

**flux conserving tokamaks**

INIS: 2000-04-12; ETDE: 1979-08-07

(Prior to February 1995, this was a valid ETDE descriptor.)

USE tokamak devices

**flux cored arc welding**

ETDE: 2002-06-13

USE arc welding

**FLUX DENSITY**

Coordinate with descriptors for the flux considered, e.g., MAGNETIC FLUX, NEUTRON FLUX, etc.

UF density (flux)  
 UF neutron flux density  
 NT1 radiant flux density  
 RT magnetic flux  
 RT poynting theorem  
 RT radiation flux

**flux jumps**

USE magnetic flux

**flux pinning**

USE magnetic flux

**FLUX PUMPS**

1975-08-22

A cryogenic dc generator.

UF superconducting flux pumps  
 \*BT1 electric generators  
 BT1 superconducting devices

**FLUX QUANTIZATION**

1975-10-09

RT magnetic flux  
 RT superconductivity

**flux surfaces**

INIS: 1988-11-16; ETDE: 2002-06-13

USE magnetic surfaces

**FLUX SYNTHESIS**

RT neutron diffusion equation  
 RT neutron flux

**FLUXGATE MAGNETOMETERS**

UF saturable core magnetometers  
 \*BT1 magnetometers

**FLUXMETERS**

BT1 measuring instruments  
 NT1 squid devices  
 RT magnetometers

**fluxoids**

USE magnetic flux

**FLY ASH**

UF pulverized fuel ash  
 \*BT1 aerosol wastes  
 \*BT1 ashes  
 RT air pollution  
 RT lime-soda sinter process  
 RT particulates  
 RT solid wastes

**FLYING SPOT DIGITIZERS**

Mechanical flying spot digitizers; see also CATHODE RAY TUBE DIGITIZERS.

UF fsd devices  
 UF hough-powell devices  
 UF hpd devices  
 \*BT1 digitizers

**FLYWHEEL ENERGY STORAGE**

INIS: 1993-03-25; ETDE: 1976-10-13

\*BT1 energy storage  
 RT flywheel-powered vehicles  
 RT flywheels

**FLYWHEEL-POWERED VEHICLES**

INIS: 2000-04-12; ETDE: 1979-03-27

BT1 vehicles  
 RT flywheel energy storage  
 RT flywheels

**FLYWHEELS**

\*BT1 energy storage systems  
 BT1 mechanical energy storage equipment  
 BT1 rotors  
 RT energy storage  
 RT flywheel energy storage  
 RT flywheel-powered vehicles

**fm cyclotrons**

INIS: 1985-10-23; ETDE: 2002-06-13

Frequency-modulated cyclotrons.

USE synchrocyclotrons

**FM DEVICES**

Floating multipoles.  
 \*BT1 internal ring devices  
 RT multipolar configurations

**FMC DOUBLE ALKALI PROCESS**

INIS: 2000-04-12; ETDE: 1979-05-25

Desulfurization process in which sulfur dioxide is absorbed in sodium sulfite forming bisulfite. This solution is reacted with slaked lime to form solid calcium sulfite and regenerate the sodium sulfite.

\*BT1 desulfurization  
 RT waste processing

**fmit facility**

INIS: 2000-04-12; ETDE: 1979-08-09

USE fmit linac

**FMIT LINAC**

INIS: 1979-12-20; ETDE: 1980-01-24

Linear accelerator at the Hanford Fusion Materials Irradiation Test facility.

UF fmit facility  
 \*BT1 linear accelerators

RT materials testing  
 RT quadrupole linacs  
 RT thermonuclear reactor materials

**FMRB REACTOR**

*Physikalisch-Technische Bundesanstalt, Braunschweig, Niedersachsen, Federal Republic of Germany.*

UF braunschweig experimental reactor  
 UF braunschweig research reactor  
 UF forschung und messreaktor braunschweig  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors

**FNR REACTOR**

*Univ. of Michigan, Ann Arbor, Michigan, USA.*

UF ford nuclear reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**foam-lift cycles**

*INIS: 2000-04-12; ETDE: 1980-08-12*  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE lift cycles

**FOAM SEPARATION**

BT1 separation processes  
 RT flotation  
 RT foams

**FOAMS**

\*BT1 colloids  
 NT1 plastic foams  
 NT1 urea-formaldehyde foams  
 RT boiling detection  
 RT bubbles  
 RT foam separation

**foce verde reactor**

USE latina reactor

**fock method**

USE hartree-fock method

**FOCK REPRESENTATION**

RT mathematical space  
 RT quantum field theory

**fock self-consistent field**

USE hartree-fock method

**FOCUSING**

RT beam optics  
 RT beam shaping  
 RT tomography

**FOCUSONS**

*1976-03-17*

*Focused collision sequences behaving like particles in solids.*

BT1 quasi particles

**focussed logging**

*INIS: 2000-06-27; ETDE: 1979-05-02*

USE resistivity logging

**fodder**

*INIS: 1975-11-27; ETDE: 2002-06-13*

USE animal feeds

**FOG**

*INIS: 1999-03-17; ETDE: 1977-03-08*

RT atmospheric precipitations

RT vapor condensation  
 RT visibility  
 RT water vapor

**fog (sprays)**

USE sprays

**FOG COOLED REACTORS**

BT1 reactors  
 RT core spray systems  
 RT fog cooling

**FOG COOLING**

BT1 cooling  
 RT core spray systems  
 RT fog cooled reactors  
 RT spray cooling

**FOILS**

*Thinner than plates or sheets.*

RT films  
 RT plates  
 RT sheets

**fokker-planck coefficients**

USE fokker-planck equation

**FOKKER-PLANCK EQUATION**

UF *bessel differential equation*  
 UF *fokker-planck coefficients*  
 SF *kolmogorov equation*  
 \*BT1 partial differential equations  
 RT ionized gases  
 RT transport theory

**FOLDING MODEL**

*INIS: 1989-11-24; ETDE: 1989-12-08*

\*BT1 nuclear models

**FOLDY-WOUTHUYSEN****TRANSFORM**

\*BT1 canonical transformations  
 RT dirac equation

**foliage**

USE leaves

**FOLIAR UPTAKE**

UF *absorption (leaves)*  
 BT1 uptake  
 RT leaves

**FOLIC ACID**

UF *formylpteroic acid*  
 UF *pteroylglutamic acid*  
 UF *rhizopterin*  
 \*BT1 amino acids  
 \*BT1 hematinics  
 \*BT1 hydroxy compounds  
 \*BT1 pteridines  
 \*BT1 vitamin b group  
 RT anemias  
 RT blood coagulation factors  
 RT citrovorum factor  
 RT paba

**folinic acid**

USE citrovorum factor

**follicle stimulating hormone**

USE fsh

**fong-newton theory**

*1996-07-18*

(Prior to March 1997 FONG THEORY was used for this conceptin ETDE.)

SEE fission products

**fong theory**

*1996-07-18*

(Until July 1996 this was a valid descriptor.)

SEE fission products

**fontenay-aux-roses (cea)**

USE cea fontenay-aux-roses

**fontina event**

*INIS: 2000-04-12; ETDE: 1977-06-21*

USE anvil project

**FOOD**

UF *condiments*  
 UF *foodstuffs*  
 UF *seasonings*  
 NT1 animal feeds  
 NT2 forage  
 NT1 beverages  
 NT1 bread  
 NT1 cocoa products  
 NT1 flour  
 NT1 fruits  
 NT2 apples  
 NT2 apricots  
 NT2 avocados  
 NT2 bananas  
 NT2 berries  
 NT3 blueberries  
 NT3 raspberries  
 NT3 strawberries  
 NT2 cherries  
 NT2 coconuts  
 NT2 dates  
 NT2 figs  
 NT2 grapefruits  
 NT2 grapes  
 NT2 lemons  
 NT2 mangoes  
 NT2 nuts  
 NT3 chestnuts  
 NT2 olives  
 NT2 oranges  
 NT2 papayas  
 NT2 peaches  
 NT2 pears  
 NT2 pineapples  
 NT2 plums  
 NT2 tomatoes  
 NT1 honey  
 NT1 meat  
 NT1 milk  
 NT1 milk products  
 NT2 butter  
 NT2 cheese  
 NT2 whey  
 NT1 molasses  
 NT1 seafood  
 NT1 vegetables  
 NT2 beans  
 NT3 mungbeans  
 NT2 beets  
 NT3 sugar beets  
 NT2 brassica  
 NT3 kale  
 NT2 carrots  
 NT2 cucumbers  
 NT2 garlic  
 NT2 lettuce  
 NT2 onions  
 NT3 allium cepa  
 NT2 peas  
 NT2 peppers  
 NT2 potatoes  
 NT2 radishes  
 NT2 soybeans  
 NT2 spinach  
 NT2 yams  
 RT agriculture  
 RT biological materials  
 RT carbohydrates  
 RT cassava  
 RT cereals  
 RT consumer products

RT crops  
 RT diet  
 RT drinking water  
 RT eggs  
 RT fao  
 RT fats  
 RT feeding  
 RT fishes  
 RT food additives  
 RT food chains  
 RT food processing  
 RT fowl  
 RT ifip  
 RT ingestion  
 RT nutrients  
 RT nutrition  
 RT organoleptic properties  
 RT preservation  
 RT proteins  
 RT radappertization  
 RT radication  
 RT radiopreservation  
 RT radurization  
 RT restaurants  
 RT seeds  
 RT spices  
 RT sterilization  
 RT vitamins  
 RT wholesomeness

**FOOD ADDITIVES**

INIS: 1992-03-26; ETDE: 1992-02-05

BT1 additives  
 RT animal feeds  
 RT diet  
 RT drugs  
 RT food  
 RT vitamins

**food and agriculture organization**

2000-04-12

USE fao

**food and drug administration**

INIS: 1978-11-27; ETDE: 1978-06-14

USE us fda

**FOOD CHAINS**

RT diet  
 RT environmental exposure pathway  
 RT fallout deposits  
 RT food  
 RT plaice  
 RT predator-prey interactions  
 RT radioecological concentration  
 RT radionuclide migration

**food disposers**

INIS: 2000-04-12; ETDE: 1977-06-21

(Prior to September 1994, this was a valid ETDE descriptor.)

SEE electric appliances

**FOOD INDUSTRY**

INIS: 1992-03-18; ETDE: 1977-01-10

BT1 industry  
 NT1 dairy industry  
 NT1 meat industry  
 RT beverage industry  
 RT food processing  
 RT restaurants  
 RT whey

**food irradiation**

2000-04-12

USE food processing  
 USE irradiation

**food irradiation (radiopasteurization)**

INIS: 1993-11-08; ETDE: 2002-06-13

USE radication

**food irradiation (radiopreservation)**

INIS: 1993-11-08; ETDE: 2002-06-13

USE radurization

**food irradiation (radiosterilization)**

INIS: 1993-11-08; ETDE: 1995-05-05

USE radappertization

**FOOD PROCESSING**

INIS: 2000-02-01; ETDE: 1976-07-07

Processing of food by individuals or large-scale commercial establishments.

UF baking (food)  
 UF canning (food)  
 UF cooking (food)  
 UF food irradiation  
 UF freezing (food)  
 UF processing (food)  
 SF cooking  
 BT1 processing  
 NT1 pasteurization  
 NT2 radication  
 NT1 radappertization  
 NT1 radurization  
 RT food  
 RT food industry  
 RT heat treatments  
 RT preservation  
 RT radiopreservation  
 RT storage life

**foodstuffs**

USE food

**FORAGE**

\*BT1 animal feeds  
 BT1 plants  
 RT cattle  
 RT clover  
 RT glycine hispida  
 RT gramineae  
 RT grazing  
 RT pastures

**FORAMINIFERA**

INIS: 1992-04-27; ETDE: 1976-05-13

An order of sarcodine protozoa, characterized by delicate calcareous shells with holes through which pseudopods are extruded.

\*BT1 sarcodina

**FORATOM**

INIS: 1978-02-23; ETDE: 1978-04-28

Forum Atomique European.

BT1 international organizations

**FORBIDDEN TRANSITIONS**

UF transitions (forbidden)  
 BT1 energy-level transitions  
 RT decay  
 RT selection rules

**FORBUSH DECREASE**

UF forbush depression  
 UF forbush event  
 RT cosmic radiation  
 RT magnetic storms  
 RT solar flares  
 RT solar wind

**forbush depression**

USE forbush decrease

**forbush event**

USE forbush decrease

**FORCE-FREE MAGNETIC FIELDS**

BT1 magnetic fields  
 RT astrophysics

**FORCED CONVECTION**

Heat transfer by forced convection.

UF forced draft cooling towers  
 UF mechanical draft cooling towers  
 \*BT1 convection  
 RT nusselt number  
 RT rayleigh number

**forced draft cooling towers**

2000-04-12

(Prior to March 1997 MECHANICAL DRAFT COOLING TOWERS was used for this concept in ETDE.)

USE cooling towers  
 USE forced convection

**forcing functions**

INIS: 2000-04-12; ETDE: 1986-11-20

Forces exerted on a system or system component.

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE functions

**ford nuclear reactor**

USE fir reactor

**FORECASTING**

UF prediction  
 NT1 delphi method  
 NT1 projection series  
 RT cost estimation  
 RT deterministic estimation  
 RT economic policy  
 RT economy  
 RT evaluation  
 RT management  
 RT market  
 RT planning  
 RT probabilistic estimation  
 RT regression analysis  
 RT schedules  
 RT time-series analysis  
 RT weather

**FOREIGN EXCHANGE RATE**

INIS: 1992-07-23; ETDE: 1980-03-29

The price of one currency in terms of another.

UF exchange rate  
 RT economics  
 RT trade

**FOREIGN POLICY**

INIS: 1996-01-09; ETDE: 1976-08-04

SF policy  
 BT1 government policies  
 RT economic policy  
 RT embargoes  
 RT energy policy  
 RT exports  
 RT imports  
 RT international agreements  
 RT international cooperation  
 RT military assistance  
 RT salt talks

**forensic science**

INIS: 2000-04-12; ETDE: 1978-08-07

USE crime detection

**FORESHOCKS**

INIS: 2000-04-12; ETDE: 1978-07-05

Small tremors that commonly precede a larger earthquake by seconds to weeks and that originate at or near the focus of the larger earthquake.

RT aftershocks  
 RT earthquakes

**FOREST LITTER**

*Natural organic debris on the forest floor.*

- \*BT1 biological materials
- RT coppices
- RT ecosystems
- RT forests
- RT humus
- RT leaves

**FORESTRY**

*INIS: 1992-03-27; ETDE: 1977-07-23*

- NT1 silviculture
- RT deforestation
- RT forests
- RT harvesting equipment
- RT paper industry
- RT short rotation cultivation
- RT wood products industry

**FORESTS**

- NT1 coppices
- RT canopies
- RT deforestation
- RT forest litter
- RT forestry
- RT ground cover
- RT interception
- RT stand density
- RT terrestrial ecosystems
- RT throughfall
- RT trees

**FORGE WELDING**

- UF roll welding
- \*BT1 welding

**FORGING**

- \*BT1 materials working
- RT cold working
- RT dies
- RT hot working
- RT presses
- RT pressing
- RT swaging

**FORKED RIVER-1 REACTOR**

*Jersey Central Power and Light Co., Forked River, New Jersey, USA. Canceled in 1980 before construction began.*

- UF oyster creek-2 reactor
- \*BT1 pwr type reactors

**FORM FACTORS**

- BT1 dimensionless numbers
- BT1 particle properties
- NT1 dirac form factors
- NT1 electromagnetic form factors
- NT1 pauli form factors
- RT nuclear reactions
- RT vertex functions

**formal (methylal)**

- USE methylal

**FORMALDEHYDE**

- UF formalin
- UF formalith
- UF formic aldehyde
- UF formol
- UF oxymethylene
- \*BT1 aldehydes
- RT bakelite
- RT formyl radicals
- RT methylal
- RT polyoxymethylenes
- RT urea-formaldehyde foams

**FORMALDEHYDE FUEL CELLS**

*INIS: 2000-04-12; ETDE: 1976-01-07*

- \*BT1 fuel cells

**formaldehydedimethylacetal**

- USE methylal

**formalin**

- USE formaldehyde

**formalith**

- USE formaldehyde

**FORMAMIDE**

- \*BT1 amides
- RT formic acid

**FORMATE FUEL CELLS**

*2000-04-12*

- \*BT1 fuel cells

**FORMATES**

*1976-02-24*

- BT1 carboxylic acid salts
- RT formic acid

**formation (synthesis)**

*1975-10-22*

- USE synthesis

**FORMATION DAMAGE**

*INIS: 1992-08-13; ETDE: 1983-01-21*

*Damage to rock surrounding a borehole that adversely affects well productivity.*

- UF condition ratio
- UF damage factor
- UF damage ratio
- UF damage zone
- UF improvement ratio
- UF permeability damage
- UF permeability reduction
- UF porosity reduction
- UF productivity factor
- UF skin damage
- UF skin effect (well)
- UF well bore damage
- UF well skin effect
- RT boreholes
- RT geologic formations
- RT porosity
- RT reservoir rock
- RT wells

**formation enthalpy**

*INIS: 1975-09-01; ETDE: 2002-06-13*

- USE formation heat

**FORMATION FREE ENERGY**

- \*BT1 free energy
- RT formation heat

**FORMATION FREE ENTHALPY**

*INIS: 1976-03-25; ETDE: 1976-05-17*

- UF gibbs formation free energy
- \*BT1 free enthalpy
- RT entropy
- RT formation heat

**FORMATION HEAT**

- UF enthalpy of formation
- UF formation enthalpy
- UF heat of formation
- \*BT1 reaction heat
- RT dissociation energy
- RT dissociation heat
- RT formation free energy
- RT formation free enthalpy
- RT thermochemical heat storage

**formation pressure**

*INIS: 1986-07-09; ETDE: 1978-09-11*

- USE reservoir pressure

**formation water**

*INIS: 1994-08-26; ETDE: 1976-11-17*

- USE interstitial water

**FORMED COKE PROCESSES**

*INIS: 2000-04-12; ETDE: 1976-08-24*

*Processes for forming compressed coal briquets of uniform size and with sufficient strength after carbonization for blast furnace use.*

- RT briquetting
- RT coke
- RT coke ovens

**former yugoslav republic of macedonia**

*INIS: 1997-06-05; ETDE: 1998-04-10*

- USE the former yugoslav republic of macedonia

**FORMIC ACID**

- \*BT1 monocarboxylic acids
- RT formamide
- RT formates

**FORMIC ACID FUEL CELLS**

*INIS: 2000-04-12; ETDE: 1976-04-19*

- \*BT1 fuel cells

**formic aldehyde**

- USE formaldehyde

**forming (materials)**

- USE materials working

**formol**

- USE formaldehyde

**formosa**

*2000-04-12*

- USE taiwan

**FORMVAR**

- \*BT1 plastics
- \*BT1 polyacetals

**FORMYL RADICALS**

- \*BT1 acyl radicals
- RT formaldehyde

**formylpteroic acid**

- USE folic acid

**forschungs und messreaktor braunschweig**

- USE fmr b reactor

**forschungsreaktor-2 frankfurt**

- USE frf-2 reactor

**forschungsreaktor berlin-2**

- USE ber-2 reactor

**forschungsreaktor frankfurt**

- USE frf reactor

**forschungsreaktor geesthacht-1**

- USE frg-1 reactor

**forschungsreaktor geesthacht-2**

- USE frg-2 reactor

**forschungsreaktor muenchen**

- USE frm reactor

**forschungsreaktor neuherberg**

- USE frn reactor

**FORSCHUNGSZENTRUM JUELICH**

*1995-03-27*

*Until March 1995 this was known as KERNFORSCHUNGSANLAGE JUELICH.*

- UF juelich (kernforschungsanlage)
- UF kernforschungsanlage juelich
- \*BT1 german fr organizations

**FORSCHUNGSZENTRUM****KARLSRUHE**

1995-10-25

Until October 1995 this was known as  
KERNFORSCHUNGSZENTRUM  
KARLSRUHE.

UF karlsruhe (forschungszentrum)  
UF karlsruhe (kernforschungszentrum)  
UF karlsruhe nuclear research center  
UF kernforschungszentrum karlsruhe

\*BT1 german fr organizations

**FORSMARK-1 REACTOR**

Oesthammar, Uppsala, Sweden.

\*BT1 bwr type reactors

**FORSMARK-2 REACTOR**

INIS: 1977-02-08; ETDE: 1977-04-13

Oesthammar, Uppsala, Sweden.

\*BT1 bwr type reactors

**FORSMARK-3 REACTOR**

INIS: 1976-09-06; ETDE: 1976-11-01

Oesthammar, Uppsala, Sweden.

\*BT1 bwr type reactors

**fort calhoun-1 reactor**

INIS: 1999-04-15; ETDE: 1978-09-13

USE calhoun-1 reactor

**fort calhoun-2 reactor**

INIS: 1999-04-15; ETDE: 1978-09-13

USE calhoun-2 reactor

**fort shevchenko reactor**

USE bn-350 reactor

**fort st. vrain reactor**

USE vrain reactor

**fort worth astr reactor**

2000-04-12

USE astr reactor

**fort worth gtr reactor**

USE gtr reactor

**forth**

INIS: 2000-04-12; ETDE: 1986-09-05

(Prior to September 1994, this was a valid  
ETDE descriptor.)

USE programming languages

**fortissimo reactor**

INIS: 2000-04-12; ETDE: 1975-08-19

USE rapsodie reactor

**FORTTRAN**

BT1 programming languages

**FOSSIL-FUEL POWER PLANTS**

1997-06-19

UF mine-mouth generating plants

UF san juan power plant

\*BT1 thermal power plants

NT1 kingston steam plant

NT1 paradise steam plant

NT1 shawnee steam plant

NT1 widows creek steam plant

RT boiler fuels

RT coal-fired gas turbines

RT mhd power plants

RT solar repowering

RT us power plant and industrial fuel use  
act**fossil fuel reserves**

USE fossil fuels

USE reserves

**FOSSIL FUELS**

UF fossil fuel reserves

BT1 energy sources

BT1 fuels

NT1 coal

NT2 black coal

NT3 anthracite

NT3 bituminous coal

NT2 brown coal

NT3 lignite

NT2 coal fines

NT2 sapropelic coal

NT3 boghead coal

NT4 torbanite

NT3 cannel coal

NT2 subbituminous coal

NT1 natural gas

NT2 abiogenic gas

NT2 liquefied natural gas

NT1 oil sands

NT1 oil shales

NT2 black shales

NT1 peat

NT1 petroleum

NT2 petroleum fractions

NT3 petroleum distillates

NT4 gas oils

NT5 diesel fuels

NT5 fuel oils

NT6 heating oils

NT6 residual fuels

NT5 kerosene

NT3 petroleum residues

NT3 refinery gases

NT2 residual petroleum

NT2 shale oil

NT3 shale oil fractions

NT2 sour crudes

RT briquets

RT coke

RT fuel feeding systems

RT fuel substitution

RT us power plant and industrial fuel use  
act**FOSSILS**

INIS: 1980-07-24; ETDE: 1978-02-14

Remains, traces, or imprints of organisms  
preserved in the earth's crust some time in  
geologic past.

UF plant fossils

UF skeletal fossils

RT animals

RT archaeological specimens

RT biological evolution

RT paleoclimatology

RT paleontology

RT sedimentary rocks

**foster wheeler gasification process**

INIS: 2000-04-12; ETDE: 1977-05-07

USE combined-cycle fw process

**foucault current**

2000-04-12

Current induced in interior of conductors by  
variations of magnetic flux. Current induced  
in interior of conductors by variations of  
magnetic flux.

(Prior to September 1994, this was a valid  
ETDE descriptor.)

USE electric currents

USE magnetic flux

**FOULING**

INIS: 1996-05-14; ETDE: 1975-11-28

Deposition of unwanted materials on  
equipment, e.g., heat exchangers, usually in a  
water environment.

NT1 biological fouling

RT antifoulants

RT contamination

RT corrosion

RT deposition

RT deposits

RT filters

RT impingement

RT screens

RT water pollution

**FOUNDATIONS**

1975-12-17

UF building foundations

UF piles

\*BT1 supports

RT basements

RT buildings

RT construction

RT soil-structure interactions

**FOUNDRIES**

1975-12-17

INIS: 1993-06-04; ETDE: 1976-08-04

BT1 industrial plants

RT casting

RT metal industry

**FOUR-BODY PROBLEM**

BT1 many-body problem

**FOUR-DIMENSIONAL****CALCULATIONS**

UF 4-dimensional calculations

UF calculations (4-dimensional)

RT many-dimensional calculations

RT mathematics

**four-fermion interaction**

USE fermi interactions

**FOUR MOMENTUM TRANSFER**

INIS: 1978-02-23; ETDE: 1978-04-28

UF transfer (four momentum)

UF transfer (q-squared)

BT1 momentum transfer

RT cross sections

RT electromagnetic form factors

RT linear momentum transfer

RT particle interactions

RT rosenbluth formula

RT scattering

**four-nucleon structure**

USE quartet model

**FOUR-NUCLEON TRANSFER****REACTIONS**

\*BT1 multi-nucleon transfer reactions

NT1 alpha-transfer reactions

**FOUR-PI COUNTING**

BT1 counting techniques

RT four-pi detectors

**FOUR-PI DETECTORS**

1994-06-29

\*BT1 radiation detectors

RT four-pi counting

**four wave mixing**

INIS: 2000-04-12; ETDE: 1986-01-14

USE frequency mixing

**FOURIER ANALYSIS**

UF analysis (fourier)

RT frequency analysis

RT mathematics

RT normal-mode analysis

**FOURIER HEAT EQUATION**

\*BT1 partial differential equations

RT heat transfer

**FOURIER TRANSFORM SPECTROMETERS**

INIS: 1991-10-22; ETDE: 1983-07-20

- \*BT1 spectrometers
- RT emission spectroscopy

**FOURIER TRANSFORMATION**

- \*BT1 integral transformations

**FOURMARIERITE**

2000-04-12

- \*BT1 uranium minerals
- RT lead oxides
- RT uranium oxides

**FOURTH SOUND**

- RT sound waves
- RT superfluidity

**FOWL**

1997-06-17

- UF poultry
- \*BT1 birds
- NT1 chickens
- NT1 ducks
- NT1 geese
- RT food
- RT pigeons

**fowler equation**

- USE fowler-nordheim theory

**FOWLER-NORDHEIM THEORY**

- UF fowler equation
- RT photoelectric effect

**FOXES**

INIS: 1993-02-18; ETDE: 1985-03-12

- UF urocyon
- UF vulpes
- \*BT1 mammals
- RT coyotes
- RT dogs
- RT wild animals
- RT wolves

**fpc**

INIS: 2000-04-12; ETDE: 1976-10-13

- USE us federal power commission

**fpc gas areas**

INIS: 2000-04-12; ETDE: 1979-12-10

- USE ferc gas areas

**FR-0 REACTOR**

UF studsvik fr-0 reactor

- \*BT1 enriched uranium reactors
- \*BT1 fast reactors
- \*BT1 research reactors
- \*BT1 training reactors
- \*BT1 zero power reactors

**FR-2 REACTOR**

Gesellschaft fuer Kernforschung mbH, Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany.

UF karlsruhe research reactor fr-2

- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 natural uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

**fracer-fulco method**

- USE dispersion relations

**FRACTALS**

INIS: 1987-05-26; ETDE: 1987-06-09

Fractals have structure which looks the same for any level of magnification.

- RT metrics
- RT topology

**FRACTIONAL-PARENTAGE COEFFICIENTS**

Numerical coefficients for proper antisymmetric combinations of wave functions for (n-1) and 1 particles to form wave functions for n-particle states.

- RT n\*baryons
- RT orbital angular momentum
- RT wave functions

**FRACTIONATED IRRADIATION**

UF dose fractionation

UF split dose irradiation

- BT1 irradiation
- RT cumulative radiation effects
- RT dose-response relationships
- RT radiation doses
- RT radiotherapy
- RT temporal dose distributions

**FRACTIONATION**

1985-12-10

- BT1 separation processes
- RT dissolution
- RT distillation
- RT two-dimensional electrophoresis

**FRACTOGRAPHY**

- RT ceramography
- RT fractures
- RT metallography
- RT photomicrography

**FRACTURE MECHANICS**

INIS: 1980-09-12; ETDE: 1980-10-07

- BT1 mechanics
- RT crack propagation
- RT cracks
- RT defects
- RT fracture properties
- RT fractures
- RT stress intensity factors

**FRACTURE PROPERTIES**

- UF fracture strength
- UF fracture toughness
- UF strength (fracture)
- UF toughness (fracture)
- BT1 mechanical properties
- RT cracks
- RT failures
- RT fracture mechanics
- RT fractures
- RT helium embrittlement
- RT hydrogen embrittlement
- RT ruptures
- RT stress intensity factors

**fracture strength**

- USE fracture properties

**fracture toughness**

- USE fracture properties

**fractured formations**

INIS: 2000-04-12; ETDE: 1977-08-24

- USE fractured reservoirs

**FRACTURED RESERVOIRS**

INIS: 1992-04-29; ETDE: 1977-08-24

- UF fissured formations
- UF fractured formations
- BT1 geologic structures
- RT geologic fissures
- RT reservoir rock

**FRACTURES**

1995-09-08

- BT1 failures
- NT1 hydraulic fractures
- NT1 thermal fractures
- RT crack propagation
- RT cracks
- RT defects
- RT deformation
- RT explosive fracturing
- RT fractography
- RT fracture mechanics
- RT fracture properties
- RT fracturing
- RT fragmentation
- RT geologic fissures
- RT geologic fractures
- RT hydraulic fracturing
- RT ruptures
- RT stress intensity factors

**fractures (bone)**

- USE bone fractures

**FRACTURING**

1981-02-27

- NT1 electrolinking
- NT1 explosive fracturing
- NT1 hydraulic fracturing
- NT1 thermal fracturing
- RT comminution
- RT fractures
- RT fragmentation
- RT surface mining
- RT underground mining

**FRACTURING FLUIDS**

INIS: 2000-04-12; ETDE: 1982-10-05

- UF hydraulic fracturing fluids
- BT1 fluids
- RT hydraulic fractures
- RT hydraulic fracturing
- RT well stimulation

**FRAGMENTATION**

1999-05-19

See also NUCLEAR FRAGMENTATION. (Until August 1995 this concept was indexed to MECHANICAL FRAGMENTATION.)

- UF mechanical fragmentation
- UF shattering
- RT comminution
- RT crushing
- RT fractures
- RT fracturing

**fragmentation (limiting)**

INIS: 1975-11-27; ETDE: 2002-06-13

- USE limiting fragmentation

**fragments (decay)**

- USE decay

**fragments (fallout)**

- USE fallout

**fragments (fission)**

- USE fission fragments

**fragments (nuclear)**

INIS: 1978-11-24; ETDE: 2002-06-13

- USE nuclear fragments

**fragments (particles)**

- USE particles

**fragments (spallation)**

INIS: 1978-11-24; ETDE: 1978-12-20

- USE spallation fragments



**FRANCE**

1997-06-17

- BT1 developed countries
- \*BT1 western europe
- NT1** reunion island
- RT* alps
- RT* bay of biscay
- RT* cea
- RT* cnrs solar facility
- RT* oecd
- RT* rhine river
- RT* rhone river
- RT* soultz-sous-forets geothermal field

**francevillite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE oxide minerals
- USE uranium minerals

**FRANCIUM**

- \*BT1 alkali metals

**FRANCIUM 199***INIS: 1999-07-21; ETDE: 2002-01-18*

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 200***INIS: 1995-10-03; ETDE: 1995-09-22*

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 201***INIS: 1979-05-28; ETDE: 1979-09-06*

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 202***INIS: 1979-05-28; ETDE: 1979-09-06*

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 203**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 204**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 205**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 206**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei

- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 207**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 208**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 209**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 210**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 211**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 212**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 214**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 215**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 216**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 217**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 218**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 219**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 220**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 221**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 222**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 223**

- UF actinium k*
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 224**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 225**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 226***INIS: 1976-07-06; ETDE: 1976-08-24*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 227**

*INIS: 1976-07-06; ETDE: 1975-08-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 228**

*INIS: 1976-07-06; ETDE: 1975-08-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 229**

*INIS: 1979-01-18; ETDE: 1975-08-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 230**

*INIS: 1979-05-28; ETDE: 1979-09-06*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 231**

*1985-05-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 232**

*INIS: 1990-12-05; ETDE: 1991-01-15*

- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM ADDITIONS**

*1996-01-24*

*Alloys containing not more than 1% Fr are listed here.*

- \*BT1 francium alloys
- RT francium compounds

**FRANCIUM ALLOYS**

*2000-04-12*

- BT1 alloys
- NT1 francium additions

**FRANCIUM CHLORIDES**

*1996-07-18*

*(From July 1996 to January 2007*

*FRANCIUM COMPOUNDS plus HALIDES was used for this concept.)*

- \*BT1 chlorides
- \*BT1 francium halides

**FRANCIUM COMPLEXES**

*1996-07-18*

*(From March 1997 to January 2007 ALKALI METAL COMPLEXES was used for this concept.)*

- \*BT1 alkali metal complexes

**FRANCIUM COMPOUNDS**

*1996-07-18*

- BT1 alkali metal compounds
- NT1 francium halides
- NT2 francium chlorides
- RT francium additions

**FRANCIUM HALIDES**

*2007-01-19*

- \*BT1 francium compounds
- \*BT1 halides
- NT1 francium chlorides

**FRANCIUM IONS**

- \*BT1 ions

**FRANCIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 francium 199
- NT1 francium 200
- NT1 francium 201
- NT1 francium 202
- NT1 francium 203
- NT1 francium 204
- NT1 francium 205
- NT1 francium 206
- NT1 francium 207
- NT1 francium 208
- NT1 francium 209
- NT1 francium 210
- NT1 francium 211
- NT1 francium 212
- NT1 francium 213
- NT1 francium 214
- NT1 francium 215
- NT1 francium 216
- NT1 francium 217
- NT1 francium 218
- NT1 francium 219
- NT1 francium 220
- NT1 francium 221
- NT1 francium 222
- NT1 francium 223
- NT1 francium 224
- NT1 francium 225
- NT1 francium 226
- NT1 francium 227
- NT1 francium 228
- NT1 francium 229
- NT1 francium 230
- NT1 francium 231
- NT1 francium 232

**FRANCK-CONDON PRINCIPLE**

- RT energy-level transitions

**frankenstein**

- USE scanning measuring projectors

**franco-german high flux reactor**

- USE grenoble reactor

**frank dislocations**

*ETDE: 2002-06-13*

- USE screw dislocations

**frank loops**

- USE screw dislocations

**frank-read source**

*2000-04-12*

*A source of dislocation loops in a strained crystal.*

*(Prior to February 1995, this was a valid*

*ETDE descriptor.)*

- SEE dislocations

**frankfurt research reactor**

- USE frf reactor

**frankfurt research reactor-2**

- USE frf-2 reactor

**FRANKIA**

*INIS: 2000-04-12; ETDE: 1986-07-08*

- \*BT1 actinomyces
- RT mycorrhizas
- RT nitrogen fixation

- RT symbiosis

**FRASCATI LINAC**

- \*BT1 linear accelerators

**FRASCATI SYNCHROTRON**

- \*BT1 synchrotrons

**frascati tokamak**

*INIS: 1983-10-14; ETDE: 1983-11-09*

- USE ft tokamak

**FRASER RIVER**

*INIS: 2000-04-12; ETDE: 1975-11-11*

- \*BT1 rivers

- RT canada

**FRAUD**

*INIS: 2000-04-12; ETDE: 1983-05-21*

- BT1 crime

**FRAUNHOFER LINES**

*UF fraunhofer spectrum*

- RT spectra

**fraunhofer spectrum**

- USE fraunhofer lines

**frc**

- USE federal radiation council

**FRCTF REACTOR**

*LANL, Los Alamos, New Mexico, USA.*

*UF fast reactor core test facility*

*UF lampre-2 reactor*

- \*BT1 test reactors

**FREDHOLM EQUATION**

- \*BT1 integral equations

**free convection**

- USE natural convection

**FREE ELECTRON LASERS**

*INIS: 1981-04-03; ETDE: 1979-01-30*

- BT1 lasers

**FREE ENERGY**

*UF free energy (helmholtz)*

*UF helmholtz free energy*

- BT1 energy

- \*BT1 thermodynamic properties

**NT1** formation free energy

**NT1** surface energy

- RT affinity

**free energy (gibbs)**

- USE free enthalpy

**free energy (helmholtz)**

- USE free energy

**FREE ENTHALPY**

*UF free energy (gibbs)*

*UF gibbs free energy*

- BT1 energy

- \*BT1 thermodynamic properties

**NT1** formation free enthalpy

**NT1** oxygen potential

**free radicals**

- USE radicals

**free steered vehicles**

*INIS: 2000-04-12; ETDE: 1979-06-06*

- USE trackless vehicles

**FREEDOM OF INFORMATION ACT**

*INIS: 2000-04-12; ETDE: 1976-09-29*

- BT1 laws

- RT legislation

**freeze-cycle system**

INIS: 2000-04-12; ETDE: 1978-03-03

System for recirculation of water from the heat storage tank, which requires that the circulating pump be started when the collector plate reaches a temperature slightly above freezing.

(Prior to February 1995, this was a valid ETDE descriptor.)

- SEE freeze protection
- SEE solar heating systems
- SEE solar water heaters

**freeze drying**

INIS: 2000-04-12; ETDE: 1979-11-23

- SEE lyophilization

**FREEZE PROTECTION**

INIS: 2000-04-12; ETDE: 1977-10-20

(From March 1978 until March 1996 DRAIN-DOWN SYSTEMS was a valid ETDE descriptor.)

- UF drain-down systems
- SF freeze-cycle system
- RT antifreeze
- RT melting points
- RT safety engineering
- RT working fluids

**FREEZERS**

INIS: 1993-08-02; ETDE: 1977-06-21

- \*BT1 appliances
- RT electric appliances
- RT gas appliances
- RT refrigerators

**FREEZING**

- BT1 phase transformations
- RT antifreeze
- RT cryobiology
- RT defrosting
- RT lyophilization
- RT melting
- RT solidification
- RT thawing

**freezing (food)**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE food processing

**FREEZING OUT**

- BT1 separation processes
- RT desalination
- RT temperature range 0065-0273 k
- RT waste processing

**freezing point depression**

- USE cryoscopy

**freezing points**

- USE melting points

**freight**

INIS: 1992-06-30; ETDE: 1979-11-23

- USE cargo

**freight pipelines**

INIS: 2000-04-12; ETDE: 1978-04-06

Pipelines whose main purpose is to convey products that exist in solid form. See also hydraulic transport and pneumatic transport. (Prior to February 1997 this was a valid ETDE descriptor.)

- USE pipelines

**FRENCH GUIANA**

- \*BT1 south america

**french minerve reactor**

- USE minerve reactor

**FRENCH ORGANIZATIONS**

- BT1 national organizations
- NT1 cea
- NT2 cea bruyeres-le-chatel
- NT2 cea cadarache
- NT2 cea fontenay-aux-roses
- NT2 cea grenoble
- NT2 cea la hague
- NT2 cea marcoule
- NT2 cea pierrelatte
- NT2 cea saclay
- NT1 cogema
- NT2 cogema la hague
- NT2 cogema marcoule
- NT2 cogema pierrelatte
- NT1 electricite de france

**FRENKEL DEFECTS**

- \*BT1 vacances

**FREONS**

- \*BT1 halogenated aliphatic hydrocarbons
- RT chlorofluorocarbons
- RT cryogenics
- RT hydrocarbons
- RT refrigerants

**frequency (cyclotron)**

- USE cyclotron frequency

**frequency (eigen)**

- USE eigenfrequency

**frequency (gyro)**

- USE gyrofrequency

**frequency (langmuir)**

- USE langmuir frequency

**FREQUENCY ANALYSIS**

INIS: 1979-05-28; ETDE: 1979-09-06

- NT1 digital frequency analysis
- RT data processing
- RT digital filters
- RT fourier analysis
- RT frequency measurement

**FREQUENCY CONTROL**

INIS: 1976-02-11; ETDE: 1975-10-28

- BT1 control
- RT frequency dependence
- RT frequency measurement
- RT frequency modulation
- RT frequency selection
- RT tuning

**FREQUENCY CONVERTERS**

- RT frequency range
- RT heterodyne receivers
- RT parametric amplifiers
- RT pulse generators

**FREQUENCY DEPENDENCE**

- UF wavelength dependence
- RT frequency control
- RT frequency measurement
- RT frequency range

**FREQUENCY MEASUREMENT**

- RT frequency analysis
- RT frequency control
- RT frequency dependence
- RT frequency modulation
- RT measuring methods

**FREQUENCY MIXING**

INIS: 2000-05-16; ETDE: 1986-01-14

The combination of two or more electromagnetic waves in a nonlinear medium to form another wave whose frequency is a sum or difference of the frequencies of the incident waves.

- UF four wave mixing
- NT1 harmonic generation
- RT electromagnetic radiation
- RT frequency modulation
- RT nonlinear optics
- RT nonlinear problems
- RT plasma waves
- RT sound waves

**frequency modulated cyclotrons**

INIS: 1985-10-23; ETDE: 2002-06-13

- USE synchrocyclotrons

**FREQUENCY MODULATION**

INIS: 1985-10-23; ETDE: 1981-09-08

- BT1 modulation
- RT frequency control
- RT frequency measurement
- RT frequency mixing
- RT frequency selection

**FREQUENCY RANGE**

- NT1 ghz range
- NT2 ghz range 01-100
- NT2 ghz range 100-1000
- NT1 hz range
- NT1 khz range
- NT2 khz range 01-100
- NT2 khz range 100-1000
- NT1 mhz range
- NT2 mhz range 01-100
- NT2 mhz range 100-1000
- NT1 milli hz range
- NT1 thz range
- NT2 thz range 01-100
- NT2 thz range 100-1000
- RT frequency converters
- RT frequency dependence
- RT radar
- RT sonar
- RT wavelengths

**FREQUENCY RESPONSE TESTING**

1976-07-30

- BT1 testing
- RT reactor stability

**FREQUENCY SELECTION**

1992-08-11

- BT1 tuning
- RT frequency control
- RT frequency modulation
- RT lasers
- RT mode selection

**FRESH WATER**

- \*BT1 water
- RT drinking water
- RT estuaries
- RT fathead minnow
- RT irrigation
- RT lakes
- RT limnology
- RT rivers
- RT rotifera
- RT water reservoirs

**fresh water ecosystems**

- USE aquatic ecosystems

**FRESNEL COEFFICIENT**

One minus the reciprocal of the square of the refractive index.

- RT refraction

RT refractive index  
RT visible radiation

**FRESNEL LENS**

1976-06-23

*A lens with a surface consisting of a concentric series of simple lens sections.*

BT1 lenses  
RT solar concentrators

**FRESNEL REFLECTORS**

INIS: 1992-07-09; ETDE: 1981-09-08

*Mirrors with varying orientation arranged so as to have the optical properties of a smooth reflector, e.g., parabolic reflector.*

BT1 mirrors  
\*BT1 solar reflectors

**FRETTING CORROSION**

\*BT1 corrosion

**FREUNDS ADJUVANT**

RT antigens

**FREYALITE**

2000-04-12

\*BT1 silicate minerals  
\*BT1 thorium minerals  
RT thorium silicates

**FRF-2 REACTOR**UF *forschungsreaktor-2 frankfurt*UF *frankfurt research reactor-2*

\*BT1 triga type reactors

**FRF REACTOR**

*Johann Wolfgang Goethe-Univ., Frankfurt am Main, Essen, Federal Republic of Germany.*

UF *forschungsreaktor frankfurt*UF *frankfurt research reactor*

\*BT1 aqueous homogeneous reactors  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 research reactors  
\*BT1 training reactors

**FRG-1 REACTOR**

*Gesellschaft fuer Kernenergieverwertung in Schiffbau und Schifffahrt mbH, Geesthacht, Schleswig-Holstein, Federal Republic of Germany.*

UF *forschungsreaktor geesthacht-1*UF *geesthacht-1 research reactor*

\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**FRG-2 REACTOR**

*Gesellschaft fuer Kernenergieverwertung in Schiffbau und Schifffahrt mbH, Geesthacht, Schleswig-Holstein, Federal Republic of Germany.*

UF *forschungsreaktor geesthacht-2*UF *geesthacht-2 research reactor*

\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 materials testing reactors  
\*BT1 pool type reactors  
\*BT1 research reactors

**frh reactor**

1991-07-02

USE triga-1-hanover reactor

**friambient process**

INIS: 2000-04-12; ETDE: 1982-02-23

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal liquefaction

**fricke dosimeters**

USE chemical dosimeters

**FRICTION**

NT1 internal friction  
NT1 rolling friction  
NT1 sliding friction  
RT energy losses  
RT friction factor  
RT tribology  
RT wear

**friction (internal)**

2000-04-12

USE internal friction

**FRICTION FACTOR**

INIS: 1983-03-14; ETDE: 1977-06-21

*Dimensionless number used in study of fluid friction in conduits; not for coefficient of friction.*

BT1 dimensionless numbers  
RT fluid flow  
RT fluid mechanics  
RT friction  
RT hydraulics  
RT reynolds number

**FRICTION WELDING**

\*BT1 welding

**frictionless flow**

1986-03-04

USE ideal flow

**FRIEDEL-CRAFTS REACTION**

BT1 chemical reactions

**FRJ-1 REACTOR**

*Kernforschungsanlage Juelich GmbH, Juelich, Nordrhein-Westfalen, Federal Republic of Germany.*

UF *juelich-merlin reactor*UF *merlin-juelich reactor*

\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors

**FRJ-2 REACTOR**

*Kernforschungsanlage Juelich GmbH, Juelich, Nordrhein-Westfalen, Federal Republic of Germany.*

UF *dido-juelich reactor*UF *juelich-dido reactor*

\*BT1 enriched uranium reactors  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 isotope production reactors  
\*BT1 materials testing reactors  
\*BT1 research reactors  
\*BT1 tank type reactors

**FRM-II REACTOR**

2004-04-02

*Technische Universitaet Muenchen, Germany.*

UF *new neutron source frm-ii*

\*BT1 enriched uranium reactors  
\*BT1 heavy water moderated reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**FRM REACTOR**

*Technische Universitaet Muenchen, Ministry for Education and Culture, Garching, Bayern, Federal Republic of Germany.*

UF *forschungsreaktor muenchen*UF *munich research reactor*

\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors

**frm reactors (thermonuclear)**

1995-01-16

*Field-reversed mirror reactors.*

USE magnetic mirror type reactors

**FRN REACTOR**

*Gesellschaft fuer Strahlen und Umweltforschung mbH, Neuherberg, Bayern, Federal Republic of Germany.*

UF *forschungsreaktor neuherberg*UF *neuherberg research reactor*

\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 test reactors  
\*BT1 triga type reactors

**FROGS**UF *rana*

\*BT1 amphibians

RT salamanders

RT toads

**FROST**

1984-04-04

BT1 ice  
RT crystallization  
RT defrosting  
RT solidification  
RT weather

**FROST TESTS**

\*BT1 thermal testing

**FROUDE NUMBER**

BT1 dimensionless numbers

RT fluid flow

**FRUCTOSE**UF *levulose*

\*BT1 hexoses

\*BT1 ketones

**fruit (seeds)**

USE seeds

**FRUIT FLIES**

1996-07-23

(From January 1976 till March 1997

RHAGOLETIS CERASI was a valid ETDE descriptor.)

UF *cherry fruit fly*UF *rhagoletis cerasi*

\*BT1 flies

NT1 anastrepha

NT1 ceratitis capitata

NT1 dacus

NT2 dacus oleae

NT1 drosophila

**FRUIT TREES**

\*BT1 trees

RT apples

RT apricots

RT avocados

RT banana plants

RT bananas

RT cherries

RT citrus

RT fruits

RT peaches

**FRUITS**

*Edible parts of plants only.*

BT1 food

NT1 apples

NT1 apricots

NT1 avocados

NT1 bananas

NT1 berries

NT2 blueberries

NT2 raspberries

NT2 strawberries

**NT1** cherries  
**NT1** coconuts  
**NT1** dates  
**NT1** figs  
**NT1** grapefruits  
**NT1** grapes  
**NT1** lemons  
**NT1** mangoes  
**NT1** nuts  
   **NT2** chestnuts  
**NT1** olives  
**NT1** oranges  
**NT1** papayas  
**NT1** peaches  
**NT1** pears  
**NT1** pineapples  
**NT1** plums  
**NT1** tomatoes  
*RT* crops  
*RT* fruit trees  
*RT* plants

**fsa**

*INIS: 1984-04-04; ETDE: 2002-06-13*

*Fixed scatterer approximation.*

USE fsc approximation

**FSC APPROXIMATION**

*UF approximation (fixed scattering centres)*

*UF fixed scattering centres approximation*

*UF fsa*

**\*BT1** approximations

*RT* glauber theory

*RT* many-body problem

*RT* optical models

*RT* scattering

**fsd devices**

USE flying spot digitizers

**FSH**

*UF follicle stimulating hormone*

**\*BT1** gonadotropins

*RT* estrogens

**FT TOKAMAK**

*INIS: 1983-10-14; ETDE: 1983-11-09*

*UF frascati tokamak*

*UF ftu tokamak*

**\*BT1** tokamak devices

**FT VALUE**

*RT* beta decay

*RT* branching ratio

*RT* decay

*RT* decoupling

*RT* half-life

**ft reactor (richland)**

2000-04-12

USE ftf reactor

**ftu tokamak**

*INIS: 1999-07-26; ETDE: 2002-06-13*

USE ft tokamak

**fucose**

USE hexoses

**FUCUS**

**\*BT1** chromophycota

**\*BT1** seaweeds

**FUDR**

*UF fluorodeoxyuridine*

**\*BT1** antimicrobial agents

**\*BT1** fluorouracils

**\*BT1** nucleosides

**\*BT1** radiosensitizers

*RT* deoxyuridine

**FUEL ADDITIVES**

*INIS: 1992-05-11; ETDE: 1979-03-05*

**BT1** additives

**RT** fuels

*RT* tetraethyl lead

**FUEL ADJUSTMENT MECHANISMS**

*INIS: 2000-04-12; ETDE: 1979-03-27*

*RT* prices

*RT* public utilities

**FUEL-AIR RATIO**

*INIS: 1997-06-17; ETDE: 1976-07-07*

*UF air-fuel ratio*

**BT1** dimensionless numbers

*RT* air

*RT* carburetors

*RT* combustion

*RT* combustion control

*RT* fuels

*RT* oxygen enrichment

**FUEL ASSEMBLIES**

**NT1** fuel element clusters

**NT1** reloadable fuel assemblies

**NT1** replaceable fuel assemblies

*RT* fuel assembly dismantling

*RT* fuel elements

*RT* guide tubes

*RT* reactor cores

*RT* shrouds

**FUEL ASSEMBLY DISMANTLING**

*UF dismantling (fuel assembly)*

*RT* fuel assemblies

*RT* reactor dismantling

**fuel bundles**

USE fuel element clusters

**FUEL CANS**

*UF fuel sheaths*

*UF sheaths (fuel)*

*RT* canning

*RT* cladding

*RT* decladding

*RT* failed element detection

*RT* failed element monitors

*RT* fuel-cladding interactions

*RT* fuel elements

*RT* hot spots

*RT* jackets

**fuel casks**

*INIS: 1977-03-14; ETDE: 2002-06-13*

USE casks

**fuel cell catalysts**

*INIS: 1992-02-26; ETDE: 1978-10-30*

USE electrocatalysts

**FUEL CELL POWER PLANTS**

1992-05-11

*For commercial, residential, or electric utility use.*

**BT1** power plants

*RT* fuel cells

*RT* microgeneration

**FUEL CELLS**

1997-06-17

**BT1** direct energy converters

**BT1** electrochemical cells

**NT1** acid electrolyte fuel cells

**NT1** alcohol fuel cells

**NT2** direct ethanol fuel cells

**NT2** direct methanol fuel cells

**NT1** alkaline electrolyte fuel cells

**NT1** ammonia fuel cells

**NT1** biochemical fuel cells

**NT1** coal fuel cells

**NT1** formaldehyde fuel cells

**NT1** formate fuel cells

**NT1** formic acid fuel cells

**NT1** high-temperature fuel cells

**NT2** molten carbonate fuel cells

**NT2** solid oxide fuel cells

**NT1** hydrazine fuel cells

**NT1** hydrocarbon fuel cells

**NT1** hydrogen fuel cells

**NT1** natural gas fuel cells

**NT1** regenerative fuel cells

**NT2** redox fuel cells

**NT1** solid electrolyte fuel cells

**NT2** proton exchange membrane fuel cells

**NT2** solid oxide fuel cells

*RT* electric-powered vehicles

*RT* electrochemistry

*RT* fuel cell power plants

*RT* matrix materials

*RT* metal-gas batteries

*RT* off-peak energy storage

*RT* solid electrolytes

**FUEL CHANNELS**

**\*BT1** reactor channels

*RT* ducts

*RT* fuel elements

*RT* hot channel

*RT* shrouds

**FUEL-CLADDING INTERACTIONS**

*UF cladding-fuel interactions*

*RT* chemical reactions

*RT* fuel cans

*RT* nuclear fuels

**FUEL CONSUMPTION**

1992-03-12

*UF fuel economy*

**BT1** energy consumption

*RT* automotive fuels

*RT* consumption rates

*RT* demand

*RT* fuels

*RT* off-highway use

*RT* on-highway use

**FUEL-COOLANT INTERACTIONS**

*UF coolant-fuel interactions*

*RT* chemical reactions

*RT* coolants

*RT* fluid-structure interactions

*RT* molten metal-water reactions

*RT* nuclear fuels

*RT* reactor accidents

**fuel cooling installations**

USE spent fuel storage

**FUEL COOLING TIME**

*INIS: 1980-07-24; ETDE: 1980-05-06*

*The cooling time of spent fuel after its discharge from the reactor core.*

**BT1** cooling time

*RT* after-heat

*RT* burnup

*RT* cooling

*RT* fission products

*RT* fuel storage pools

*RT* gamma spectroscopy

*RT* spent fuel storage

*RT* spent fuels

**FUEL CYCLE**

*UF recycle (nuclear fuel)*

**NT1** plutonium recycle

**NT1** thorium cycle

**NT1** uranium recycle

*RT* burnup

*RT* cost

*RT* depleted uranium

RT fissionable materials  
 RT fuel cycle centers  
 RT fuel management  
 RT harvest process  
 RT nuclear fuels  
 RT nuclear materials management  
 RT present worth method  
 RT proliferation  
 RT reprocessing  
 RT risk assessment  
 RT sol-gel process  
 RT westinghouse recycle fuels plant

**FUEL CYCLE CENTERS**

INIS: 1978-07-03; ETDE: 1978-08-07

UF nuclear fuel centers  
 BT1 nuclear facilities  
 RT feed materials plants  
 RT fuel cycle  
 RT fuel fabrication plants  
 RT fuel reprocessing plants  
 RT fuel storage pools  
 RT plutonium recycle  
 RT radioactive waste disposal  
 RT radioactive waste facilities  
 RT radioactive waste processing  
 RT radioactive waste storage  
 RT spent fuel storage  
 RT uranium recycle

**FUEL DENSIFICATION**

The increase in density of nuclear fuel resulting from thermal and/or radiation effects.

RT density  
 RT fuel elements  
 RT nuclear fuels  
 RT physical radiation effects  
 RT reactor safety

**FUEL DISPERSION REACTORS**

\*BT1 homogeneous reactors  
 NT1 fluidized bed reactors  
 NT1 slurry reactors  
 RT dispersion nuclear fuels

**fuel economy**

INIS: 1992-08-17; ETDE: 1976-04-19

(Prior to December 1991 this was a valid ETDE descriptor.)

USE fuel consumption

**FUEL ELEMENT CLUSTERS**

UF bundles (fuel elements)  
 UF clusters (fuel elements)  
 UF fuel bundles  
 UF rod bundles  
 BT1 fuel assemblies  
 RT spacers

**FUEL ELEMENT FAILURE**

1997-04-29

BT1 failures  
 RT failed element detection  
 RT failed element monitors  
 RT fuel motion detection  
 RT radiation hazards  
 RT reactor accidents  
 RT reactor operation  
 RT reactor safety

**FUEL ELEMENTS**

(From January 1975 to February 1997 FUEL SPHERES was a valid ETDE descriptor.)

UF fuel spheres  
 UF nuclear fuel elements  
 UF reactor fuel elements  
 UF spheres (fuel)  
 BT1 reactor components  
 NT1 annular fuel elements  
 NT1 fuel pins

NT1 fuel plates  
 NT1 fuel rods  
 NT2 hollow fuel rods  
 NT1 fuel wires  
 NT1 spent fuel elements  
 NT1 thermionic fuel elements  
 RT burnout  
 RT decladding  
 RT failed element detection  
 RT failed element monitors  
 RT fuel assemblies  
 RT fuel cans  
 RT fuel channels  
 RT fuel densification  
 RT fuel fabrication plants  
 RT fuel integrity  
 RT fuel storage pools  
 RT matrix materials  
 RT nuclear fuels  
 RT positioning  
 RT post-irradiation examination  
 RT reactor cores  
 RT reactor lattices  
 RT reactors

**FUEL FABRICATION PLANTS**

1996-07-18

(Prior to March 1997 GENERAL ATOMIC FUEL FABRICATION FACILITY was a valid ETDE descriptor.)

UF general atomic fuel fabrication facility  
 BT1 nuclear facilities  
 NT1 cimarron plutonium production plant  
 NT1 cimarron uranium fuel plant  
 NT1 exxon fuel fabrication facility  
 NT1 mixed oxide fuel fabrication plants  
 NT1 westinghouse recycle fuels plant  
 RT fabrication  
 RT fuel cycle centers  
 RT fuel elements  
 RT industrial plants  
 RT nuclear industry  
 RT nuclear parks

**FUEL FEEDING SYSTEMS**

INIS: 1983-03-15; ETDE: 1976-07-07

UF coahtek process  
 BT1 fuel systems  
 NT1 stokers  
 RT fossil fuels  
 RT fuel gas  
 RT materials handling  
 RT pellet injection  
 RT pulverizers  
 RT thermonuclear fuels  
 RT thermonuclear reactor fueling

**FUEL GAGES**

2000-04-12

BT1 measuring instruments

**FUEL GAS**

BT1 energy sources  
 \*BT1 gas fuels  
 \*BT1 gases  
 NT1 high btu gas  
 NT1 intermediate btu gas  
 NT2 carburetted water gas  
 NT2 town gas  
 NT2 water gas  
 NT1 landfill gas  
 NT1 low btu gas  
 NT2 producer gas  
 NT1 natural gas  
 NT2 abiogenic gas  
 NT2 liquefied natural gas  
 RT coal gas  
 RT dual-fuel engines  
 RT fuel feeding systems

RT hot gas cleanup  
 RT public utilities  
 RT refinery gases  
 RT synthetic fuels

**FUEL INJECTION SYSTEMS**

1992-08-13

BT1 fuel systems  
 RT atomization  
 RT combustion  
 RT combustion chambers  
 RT diesel engines  
 RT engines  
 RT nozzles  
 RT spark ignition engines  
 RT stratified charge engines  
 RT thermonuclear reactors

**FUEL INTEGRITY**

INIS: 1986-03-04; ETDE: 1985-03-26

UF integrity (fuel)  
 RT fuel elements  
 RT nuclear fuels  
 RT spent fuel elements  
 RT spent fuel storage  
 RT spent fuels

**fuel kernels**

USE fuel particles

**fuel loading (fission reactor)**

1982-11-29

USE reactor fueling

**FUEL MANAGEMENT**

UF in-core fuel management  
 \*BT1 nuclear materials management  
 RT fuel cycle  
 RT reactor cores  
 RT reactor fueling

**FUEL MOTION DETECTION**

INIS: 1979-09-18; ETDE: 1979-03-05

Determination of in-core nuclear fuel behavior.

BT1 detection  
 RT failed element detection  
 RT fuel element failure

**FUEL OILS**

1992-02-22

UF coal-oil mixtures  
 \*BT1 gas oils  
 \*BT1 liquid fuels  
 NT1 heating oils  
 NT1 residual fuels  
 RT oils

**FUEL PARTICLES**

UF fuel kernels  
 UF kernels (fuel)  
 UF particles (fuel)  
 NT1 coated fuel particles  
 RT dispersion nuclear fuels  
 RT nuclear fuels

**FUEL PELLETS**

BT1 pellets  
 RT fuel rods  
 RT nuclear fuels  
 RT pellet injection  
 RT pelletizing

**fuel pencils**

USE fuel pins

**FUEL PINS**

UF fuel pencils  
 UF pins (fuel)  
 \*BT1 fuel elements

**FUEL PLATES**

UF plates (fuel)

\*BT1 fuel elements

### **fuel pools**

1984-04-04

(Prior to January 1995, this was a valid ETDE descriptor.)

USE fuel storage pools

### **FUEL RACKS**

INIS: 1980-04-02; ETDE: 1978-10-23

UF racks (fuel)

\*BT1 supports

RT fuel storage pools

RT spent fuel storage

### **fuel reprocessing**

USE reprocessing

### **FUEL REPROCESSING PLANTS**

1996-06-26

BT1 nuclear facilities

NT1 barnwell fuel processing plant

NT1 cea la hague

NT1 cogema la hague

NT1 hef

NT1 idaho chemical processing plant

NT1 midwest fuel recovery plant

NT1 nuclear fuel recovery and recycling center

NT1 rokkasho reprocessing plant

NT1 sellafeld reprocessing plant

NT1 tokai reprocessing plant

NT1 wackersdorf reprocessing plant

NT1 wak

NT1 west valley processing plant

NT1 westinghouse recycle fuels plant

RT fission products

RT fuel cycle centers

RT industry

RT mayak plant

RT nuclear industry

RT nuclear parks

RT radioactive waste facilities

RT reprocessing

RT risk assessment

RT spent fuels

### **fuel rod consolidation**

INIS: 2000-04-12; ETDE: 1985-03-26

USE configuration

USE fuel rods

### **FUEL RODS**

UF fuel rod consolidation

UF fuel slugs

UF rods (fuel)

UF slugs (fuel)

\*BT1 fuel elements

NT1 hollow fuel rods

RT fuel pellets

### **FUEL SCANNING**

UF scanning (fuel)

NT1 gamma fuel scanning

RT burnup

RT nondestructive testing

RT nuclear reaction analyzers

### **fuel sheaths**

USE fuel cans

### **fuel slugs**

USE fuel rods

### **FUEL SLURRIES**

UF coal-oil mixtures

UF fuel suspensions

UF slurries (fuel)

UF suspensions (fuel)

BT1 fuels

\*BT1 slurries

RT slurry reactors

### **FUEL SOLUTIONS**

\*BT1 liquid fuels

\*BT1 nuclear fuels

\*BT1 solutions

RT liquid homogeneous reactors

### **fuel spheres**

2000-04-12

Pebble bed reactor fuel elements.

(Prior to February 1997 this was a valid ETDE descriptor.)

USE fuel elements

### **FUEL STORAGE POOLS**

INIS: 1976-02-18; ETDE: 1976-03-25

UF fuel pools

UF pools (fuel storage)

UF storage pools (fuel)

RT away-from-reactor storage

RT fuel cooling time

RT fuel cycle centers

RT fuel elements

RT fuel racks

RT spent fuel storage

### **FUEL SUBSTITUTION**

INIS: 1992-03-16; ETDE: 1977-12-22

SF alternate fuels

RT energy shortages

RT energy substitution

RT energy substitution equivalent

RT energy supplies

RT energy surpluses

RT fossil fuels

RT fuels

RT interchangeability

RT material substitution

RT rolled-in pricing

### **fuel substitution equivalent**

INIS: 2000-04-12; ETDE: 1978-06-14

USE energy substitution equivalent

### **FUEL SUPPLIES**

INIS: 1992-07-09; ETDE: 1979-11-23

BT1 energy supplies

RT demand

RT fuels

RT receipts

RT shortages

RT us naval petroleum reserves

### **fuel suspensions**

USE fuel slurries

### **FUEL SYSTEMS**

1997-06-17

Non-nuclear fuels.

NT1 carburetors

NT1 fuel feeding systems

NT2 stokers

NT1 fuel injection systems

RT fuels

RT oxygen enrichment

### **fuel use act**

INIS: 2000-04-12; ETDE: 1980-01-24

USE us power plant and industrial fuel use act

### **FUEL WASHERS**

UF washers (fuel)

RT annular fuel elements

RT nuclear fuels

### **FUEL WIRES**

UF wires (fuel)

\*BT1 fuel elements

### **fueling machines (fission reactors)**

INIS: 1993-11-08; ETDE: 2002-06-13

USE reactor charging machines

### **FUELS**

1997-06-19

(From January 1975 till March 1997 PROPELLANTS was a valid ETDE descriptor.)

SF propellants

NT1 automotive fuels

NT1 biofuels

NT2 wood fuels

NT1 boiler fuels

NT1 fossil fuels

NT2 coal

NT3 black coal

NT4 anthracite

NT4 bituminous coal

NT3 brown coal

NT4 lignite

NT3 coal fines

NT3 sapropelic coal

NT4 boghead coal

NT5 torbanite

NT4 cannel coal

NT3 subbituminous coal

NT2 natural gas

NT3 abiogenic gas

NT3 liquefied natural gas

NT2 oil sands

NT2 oil shales

NT3 black shales

NT2 peat

NT2 petroleum

NT3 petroleum fractions

NT4 petroleum distillates

NT5 gas oils

NT6 diesel fuels

NT6 fuel oils

NT7 heating oils

NT7 residual fuels

NT6 kerosene

NT4 petroleum residues

NT4 refinery gases

NT3 residual petroleum

NT3 shale oil

NT4 shale oil fractions

NT3 sour crudes

NT1 fuel slurries

NT1 gas fuels

NT2 fuel gas

NT3 high btu gas

NT3 intermediate btu gas

NT4 carburetted water gas

NT4 town gas

NT4 water gas

NT3 landfill gas

NT3 low btu gas

NT4 producer gas

NT3 natural gas

NT4 abiogenic gas

NT4 liquefied natural gas

NT1 liquid fuels

NT2 alcohol fuels

NT3 ethanol fuels

NT3 methanol fuels

NT2 diesel fuels

NT2 fuel oils

NT3 heating oils

NT3 residual fuels

NT2 fuel solutions

NT2 gasohol

NT2 gasoline

NT3 unleaded gasoline

NT2 jet engine fuels

NT2 kerosene

NT2 liquid metal fuels

NT2 molten salt fuels

NT1 nuclear fuels

NT2 alloy nuclear fuels

NT3 uranium-molybdenum fuels

NT2 denatured fuel

**NT2** dispersion nuclear fuels  
**NT2** fuel solutions  
**NT2** liquid metal fuels  
**NT2** mixed carbide fuels  
**NT2** mixed nitride fuels  
**NT2** mixed oxide fuels  
**NT2** molten salt fuels  
**NT2** spent fuels  
**NT1** refuse derived fuels  
**NT1** solid fuels  
**NT2** alloy nuclear fuels  
**NT3** uranium-molybdenum fuels  
**NT2** briquets  
**NT2** dispersion nuclear fuels  
**NT2** mixed carbide fuels  
**NT2** mixed nitride fuels  
**NT2** mixed oxide fuels  
**NT2** peat  
**NT2** wood fuels  
**NT1** solvent-refined coal  
**NT1** synthetic fuels  
**NT2** alcohol fuels  
**NT3** ethanol fuels  
**NT3** methanol fuels  
**NT2** hydrogen fuels  
**NT2** pyrolytic oils  
**NT2** synthetic petroleum  
**NT1** thermonuclear fuels  
*RT* calorific value  
*RT* fuel additives  
*RT* fuel-air ratio  
*RT* fuel consumption  
*RT* fuel substitution  
*RT* fuel supplies  
*RT* fuel systems  
*RT* interchangeability  
*RT* rolled-in pricing  
*RT* semicoke  
*RT* semicoking  
*RT* wood

**fuels (nuclear)**

2000-04-12

USE nuclear fuels

**fuelwood***INIS: 1992-04-09; ETDE: 1981-01-30*

USE wood fuels

**fugen atr**

USE jatr reactor

**fujaira***INIS: 1992-05-07; ETDE: 1976-08-05*

USE united arab emirates

**FUJITSU COMPUTERS***INIS: 1992-08-18; ETDE: 1985-12-13*

BT1 computers

**FUKUSHIMA-1 REACTOR***TEPCO, Okuma, Fukushima, Japan.**UF tokyo-1 reactor*

\*BT1 bwr type reactors

**FUKUSHIMA-2 REACTOR***TEPCO, Okuma, Fukushima, Japan.**UF tokyo-2 reactor*

\*BT1 bwr type reactors

**FUKUSHIMA-3 REACTOR***TEPCO, Okuma, Fukushima, Japan.**UF tokyo-3 reactor*

\*BT1 bwr type reactors

**FUKUSHIMA-4 REACTOR***TEPCO, Okuma, Fukushima, Japan.**UF tokyo-4 reactor*

\*BT1 bwr type reactors

**FUKUSHIMA-5 REACTOR***TEPCO, Futaba, Fukushima, Japan.*

\*BT1 bwr type reactors

**FUKUSHIMA-6 REACTOR***TEPCO, Futaba, Fukushima, Japan.*

\*BT1 bwr type reactors

**FUKUSHIMA-II-1 REACTOR***INIS: 1979-09-18; ETDE: 1980-05-06**TEPCO, Naraha, Fukushima, Japan.*

\*BT1 bwr type reactors

**FUKUSHIMA-II-2 REACTOR***INIS: 1979-09-18; ETDE: 1980-05-06**TEPCO, Naraha, Fukushima, Japan.*

\*BT1 bwr type reactors

**FUKUSHIMA-II-3 REACTOR***INIS: 1981-07-13; ETDE: 1981-08-04**TEPCO, Tomioka, Fukushima, Japan.*

\*BT1 bwr type reactors

**FUKUSHIMA-II-4 REACTOR***INIS: 1981-07-13; ETDE: 1981-08-04**TEPCO, Tomioka, Fukushima, Japan.*

\*BT1 bwr type reactors

**fulcrum operation***INIS: 2000-04-12; ETDE: 1978-10-30*

(Prior to September 1994, this was a valid

ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**fulham-simon-carves process**

2000-04-12

Process for recovery of sulfur from flue gases by causing flue gas to react directly with ammonia liquor from gas works followed by processing of solution to give ammonium sulfate and sulfur.

USE desulfurization

**full-serve stations***INIS: 2000-04-12; ETDE: 1979-05-09*

USE gasoline service stations

**FULLERENES***INIS: 1992-04-08; ETDE: 1992-01-09*

Carbon allotrope containing 60 carbon atoms in a hollow spherical configuration similar to a geodesic dome.

\*BT1 carbon

*RT* atomic clusters**FULLERS EARTH**

\*BT1 clays

*RT* attapulgit**FULLY IONIZED GASES**

Use only when the gas is not macroscopically electrically neutral; otherwise use PLASMA.

\*BT1 ionized gases

**NT1** lorentz gas**FULTON-1 REACTOR**

Philadelphia Electric Co., USA. Canceled in 1975 before construction began.

\*BT1 enriched uranium reactors

\*BT1 helium cooled reactors

\*BT1 htgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**FULTON-2 REACTOR**

Philadelphia Electric Co., USA. Canceled in 1975 before construction began.

\*BT1 enriched uranium reactors

\*BT1 helium cooled reactors

\*BT1 htgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**FULVIC ACIDS**

\*BT1 organic acids

*RT* humic acids*RT* humus*RT* soils**fumaks process***INIS: 2000-04-12; ETDE: 1979-01-30*

(Prior to February 1995, this was a valid ETDE descriptor.)

USE desulfurization

**FUMARIC ACID**

\*BT1 dicarboxylic acids

**FUMAROLES**

1992-04-13

Vents, usually volcanic, from which gases and vapors are emitted. They are characteristic of a late stage of volcanic activity.

**NT1** solfataras*RT* fumarolic fluids*RT* hydrothermal systems*RT* volcanoes**FUMAROLIC FLUIDS**

1992-05-12

\*BT1 geothermal fluids

*RT* fumaroles*RT* volcanic gases**FUME HOODS***INIS: 1980-09-11; ETDE: 1978-10-23*

\*BT1 laboratory equipment

*RT* gaseous wastes*RT* ventilation**fumes**

USE aerosols

**FUMIGANTS**

BT1 pesticides

*RT* grain disinfection*RT* methyl bromide*RT* preservation**function (biological)***INIS: 1975-10-23; ETDE: 1976-08-26*

USE biological functions

**FUNCTION GENERATORS***UF* sine generators*UF* square-wave generators

\*BT1 electronic equipment

**NT1** pulse generators**NT2** high-voltage pulse generators**NT3** marx generators**FUNCTIONAL ANALYSIS***INIS: 1976-09-06; ETDE: 1976-11-01*

BT1 mathematics

*RT* mathematical evolution*RT* mathematical space*RT* periodicity**FUNCTIONAL MODELS***UF* models (functional)**NT1** pilot plants**NT2** barstow solar pilot plant**NT2** wipp**NT1** process development units**NT1** simulators**NT2** reactor simulators**NT2** solar simulators*RT* analog systems*RT* biological models*RT* comparative evaluations*RT* hypothesis*RT* mathematical models*RT* microcosms*RT* mockup*RT* phantoms



*RT* plasma simulation  
*RT* scale models  
*RT* simulation  
*RT* structural models

**FUNCTIONALS**

BT1 functions  
*RT* density functional method  
*RT* variational methods

**FUNCTIONS**

1996-04-16

(From November 1986 till February 1997 FORCING FUNCTIONS was a valid ETDE descriptor.)

*UF* periodic functions  
*SF* forcing functions  
 NT1 airy functions  
 NT1 analytic functions  
 NT1 bessell functions  
 NT1 correlation functions  
 NT1 delta function  
 NT1 distribution functions  
 NT1 eigenfunctions  
 NT1 excitation functions  
 NT1 floquet function  
 NT1 functionals  
 NT1 gamma function  
 NT1 gauss function  
 NT1 green function  
 NT1 hamiltonian function  
 NT1 hypergeometric functions  
 NT1 jacobian function  
 NT1 jost function  
 NT1 lagrangian function  
 NT1 neutron importance function  
 NT1 neutronic damage functions  
 NT1 partition functions  
 NT1 placzec function  
 NT1 polynomials  
   NT2 hermite polynomials  
   NT2 laguerre polynomials  
   NT2 legendre polynomials  
 NT1 probability density functions  
 NT1 response functions  
 NT1 retention functions  
 NT1 riemann function  
 NT1 spectral functions  
   NT2 spectral density  
 NT1 spherical harmonics  
 NT1 spline functions  
 NT1 strength functions  
 NT1 structure functions  
 NT1 transfer functions  
 NT1 vertex functions  
 NT1 wave functions  
 NT1 weierstrass functions  
 NT1 weighting functions  
 NT1 work functions  
*RT* algorithms  
*RT* equations  
*RT* exact solutions  
*RT* mathematics  
*RT* recursion relations  
*RT* riemann sheet  
*RT* series expansion  
*RT* singularity

**FUNDAMENTAL CONSTANTS**

(From February 1975 till March 1997 RYDBERG CONSTANT was a valid ETDE descriptor.)

*UF* gravitational charges  
*UF* rydberg constant  
*RT* atoms  
*RT* cosmology  
*RT* elementary particles  
*RT* natural units  
*RT* nuclei

**fundamental particles**

USE elementary particles

**FUNGAL DISEASES**

*INIS: 1982-12-08; ETDE: 1981-01-12*

\*BT1 infectious diseases  
 NT1 mycoses  
 NT1 tinea  
*RT* fungi  
*RT* host

**FUNGI**

1997-06-19

*UF* molds  
 BT1 plants  
 NT1 eumycota  
   NT2 aspergillus  
   NT2 fusarium  
   NT2 lichens  
   NT2 mildew  
   NT2 neurospora  
   NT2 penicillium  
   NT2 phanerochaete  
   NT2 rhizopus  
   NT2 trichoderma  
     NT3 trichoderma viride  
   NT2 ustilago  
   NT2 yeasts  
     NT3 candida  
     NT3 saccharomyces  
     NT4 saccharomyces cerevisiae  
   NT3 torula  
 NT1 mushrooms  
 NT1 myxomycetes  
 NT1 physarum  
 NT1 polyporus versicolor  
*RT* bioadsorbents  
*RT* conidia  
*RT* fungal diseases  
*RT* mycelium  
*RT* mycorrhizas  
*RT* mycoses  
*RT* mycotoxins  
*RT* parasites  
*RT* pathogens  
*RT* spores  
*RT* tinea  
*RT* vaccines

**FUNGICIDES**

BT1 pesticides  
 NT1 cycloheximide

**FURANS**

1996-10-23

*UF* furildioxime  
 \*BT1 heterocyclic compounds  
 \*BT1 organic oxygen compounds  
 NT1 benzofurans  
 NT1 furfural  
 NT1 tetrahydrofuran  
   NT2 mthf  
*RT* heterocyclic oxygen compounds  
*RT* kinetin

**FURFURAL**

*UF* 2-furalaldehyde  
 \*BT1 aldehydes  
 \*BT1 furans

**furildioxime**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE furans  
 USE oximes

**furnace oil**

*INIS: 2000-04-12; ETDE: 1976-03-11*  
 USE heating oils

**FURNACES**

NT1 blast furnaces  
 NT1 chamber furnaces  
 NT1 electric furnaces  
   NT2 arc furnaces  
   NT2 ceramic melters  
   NT2 induction furnaces  
 NT1 electron beam furnaces  
 NT1 gas furnaces  
 NT1 multiple-hearth furnaces  
 NT1 oil furnaces  
 NT1 plasma furnaces  
 NT1 smelters  
 NT1 solar furnaces  
 NT1 tunnel furnaces  
 NT1 vacuum furnaces  
 NT1 wood burning furnaces  
*RT* burners  
*RT* combustion chambers  
*RT* crucibles  
*RT* gas generators  
*RT* gratings  
*RT* heat production  
*RT* incinerators  
*RT* kilns  
*RT* melting  
*RT* sintering  
*RT* stokers

**FURNITURE INDUSTRY**

*INIS: 1992-03-10; ETDE: 1977-07-23*

BT1 industry  
*RT* wood products industry

**FUSARIUM**

\*BT1 eumycota  
 BT1 parasites

**fused cells (animal)**

*INIS: 2000-04-12; ETDE: 1984-02-10*

USE hybridomas

**fused salt fuels**

USE molten salt fuels

**fused salts**

USE molten salts

**fuses (detonators)**

*INIS: 2000-04-12; ETDE: 1979-10-03*

(Prior to February 1997 FUSES was a valid ETDE descriptor.)

USE detonators

**fuses (electric)**

USE electric fuses

**fuses (reactor safety)**

USE reactor safety fuses

**fusion process**

*INIS: 2000-04-12; ETDE: 1975-10-28*

*Oil shale retorting process involving direct heating by a mixture of combustion gases and reheated recycled gases.*

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE oil shales

SEE retorting

**fusioner operation**

*INIS: 2000-04-12; ETDE: 1985-10-25*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**fusion (bonding, nonmetallic)**

USE bonding

**fusion (melting)**

USE melting

**fusion (nuclear)**

2000-04-12

USE thermonuclear reactions

**fusion (welding)**

USE welding

**fusion electromagnetic induction experiment**

INIS: 2000-04-12; ETDE: 1983-06-20

USE felix facility

**fusion energy**

INIS: 2000-04-12; ETDE: 1985-09-23

USE thermonuclear reactors

**fusion fuels**

INIS: 2000-04-12; ETDE: 1980-05-23

USE thermonuclear fuels

**FUSION HEAT**

UF heat of fusion

UF latent heat of fusion

\*BT1 transition heat

RT latent heat storage

RT phase change materials

**fusion reactions**

2000-04-12

SEE heavy ion fusion reactions

SEE thermonuclear reactions

**fusion reactions (endoenergetic)**

INIS: 1993-11-08; ETDE: 2002-06-13

USE heavy ion fusion reactions

**fusion reactions (exoenergetic)**

INIS: 1993-11-08; ETDE: 2002-06-13

USE thermonuclear reactions

**fusion reactions (heavy ion)**

INIS: 1985-07-18; ETDE: 2002-06-13

USE heavy ion fusion reactions

**fusion reactions (thermonuclear)**

INIS: 1993-11-08; ETDE: 2002-06-13

USE thermonuclear reactions

**fusion-reactor materials**

ETDE: 2002-06-13

USE thermonuclear reactor materials

**fusion reactors**

USE thermonuclear reactors

**FUSION YIELD**

1975-09-16

UF yield (fusion)

\*BT1 nuclear reaction yield

RT laser implosions

RT thermonuclear fuels

RT thermonuclear reactions

RT thermonuclear reactors

**fuzes**

INIS: 2000-04-12; ETDE: 1979-05-02

(From October 1979 to February 1997 FUSES was used for this concept in ETDE.)

USE detonators

**FUZZY LOGIC**

1991-07-02

BT1 mathematical logic

RT chaos theory

RT mathematical models

RT probability

RT set theory

**fw-stoic process**

INIS: 2000-04-12; ETDE: 1978-04-27

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**fwpca**

INIS: 1977-03-01; ETDE: 2002-06-13

Federal Water Pollution Control Act.

USE clean water acts

**G-1 REACTOR**UF *marcoule g-1 reactor*

\*BT1 air cooled reactors

\*BT1 gcr type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

**G-2 REACTOR**UF *marcoule g-2 reactor*

\*BT1 carbon dioxide cooled reactors

\*BT1 gcr type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

**G-3 REACTOR***Marcoule, France.*UF *marcoule g-3 reactor*

\*BT1 carbon dioxide cooled reactors

\*BT1 gcr type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

**G CODES**

BT1 computer codes

**g factor (gyromagnetic ratio)**

USE gyromagnetic ratio

**g factor (lande)**

USE lande factor

**G MATRIX***Limited to the theory of nuclear reactions.*

BT1 matrices

RT nuclear reactions

**G PARITY***Property peculiar to mesons, not related to the concept covered by PARITY.*

BT1 particle properties

RT g-parity invariance

**G-PARITY INVARIANCE**

BT1 invariance principles

RT g parity

**g-proteins**

INIS: 2000-04-12; ETDE: 1988-05-23

USE gtp-ases

**g resonances**

USE rho3-1690 mesons

**G STATES**

INIS: 1979-09-18; ETDE: 1979-03-28

BT1 energy levels

**G VALUE***Limited to use in radiation chemistry; see also GYROMAGNETIC RATIO.*

RT radiation chemistry

RT radiolysis

**GA SIWABESSY REACTOR**

1999-07-08

*Serpong, Tangerang, Indonesia.*

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**GA STANDARD REACTOR**

1975-10-29

USA.

UF *general atomic standard reactor*

\*BT1 enriched uranium reactors

\*BT1 htgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**GABBROS**

INIS: 1999-12-03; ETDE: 1980-08-12

\*BT1 plutonic rocks

NT1 anorthosites

RT feldspars

RT silicate minerals

**GABON**

BT1 africa

BT1 developing countries

RT oklo phenomenon

RT opec

**gadolinite**

INIS: 2000-04-12; ETDE: 1975-09-11

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE beryllium compounds

SEE iron compounds

SEE rare earth compounds

SEE silicates

**GADOLINIUM**

\*BT1 rare earths

**GADOLINIUM 134**

2007-01-30

\*BT1 even-even nuclei

\*BT1 gadolinium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 rare earth nuclei

**GADOLINIUM 135**

1997-02-07

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**GADOLINIUM 136**

2007-01-30

\*BT1 even-even nuclei

\*BT1 gadolinium isotopes

\*BT1 nanoseconds living radioisotopes

\*BT1 rare earth nuclei

**GADOLINIUM 137**

INIS: 1984-10-18; ETDE: 1984-11-06

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

**GADOLINIUM 138**

INIS: 1986-03-04; ETDE: 1985-10-25

\*BT1 even-even nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

**GADOLINIUM 139**

INIS: 1984-10-18; ETDE: 1984-11-06

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

**GADOLINIUM 140**

INIS: 1986-03-04; ETDE: 1985-10-25

\*BT1 even-even nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

### GADOLINIUM 141

*INIS: 1984-08-23; ETDE: 1984-09-05*

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

### GADOLINIUM 142

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 142 TARGET

*INIS: 1992-09-22; ETDE: 1977-05-07*

BT1 targets

### GADOLINIUM 143

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

### GADOLINIUM 144

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 145

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 146

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 147

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 148

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 years living radioisotopes

### GADOLINIUM 148 TARGET

*INIS: 1982-01-13; ETDE: 1981-07-18*

BT1 targets

### GADOLINIUM 149

\*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 150

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 years living radioisotopes

### GADOLINIUM 151

\*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 152

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 years living radioisotopes

### GADOLINIUM 152 TARGET

*INIS: 1975-10-23; ETDE: 1976-07-09*

BT1 targets

### GADOLINIUM 153

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 154

\*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### GADOLINIUM 154 TARGET

*ETDE: 1976-07-09*

BT1 targets

### GADOLINIUM 155

\*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### GADOLINIUM 155 BEAMS

*INIS: 1986-12-09; ETDE: 1987-02-24*

\*BT1 ion beams

### GADOLINIUM 155 REACTIONS

*1984-11-30*

\*BT1 heavy ion reactions

### GADOLINIUM 155 TARGET

*ETDE: 1976-07-09*

BT1 targets

### GADOLINIUM 156

\*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### GADOLINIUM 156 TARGET

*ETDE: 1976-07-09*

BT1 targets

### GADOLINIUM 157

\*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### GADOLINIUM 157 TARGET

*ETDE: 1976-07-09*

BT1 targets

### GADOLINIUM 158

\*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### GADOLINIUM 158 TARGET

*ETDE: 1976-07-09*

BT1 targets

### GADOLINIUM 159

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 159 TARGET

*INIS: 1976-04-03; ETDE: 1976-07-12*

BT1 targets

### GADOLINIUM 160

\*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### GADOLINIUM 160 TARGET

*ETDE: 1976-07-09*

BT1 targets

### GADOLINIUM 161

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 162

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 163

*INIS: 1982-04-14; ETDE: 1981-09-08*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 164

*INIS: 1988-10-10; ETDE: 1988-11-01*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

### GADOLINIUM 165

*1998-09-23*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

### GADOLINIUM 166

*2007-01-30*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

### GADOLINIUM 167

*2007-01-30*

\*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**GADOLINIUM 168**

2007-01-30

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 gadolinium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei

**GADOLINIUM 169**

2007-01-30

- \*BT1 even-odd nuclei
- \*BT1 gadolinium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**GADOLINIUM ADDITIONS**

*Alloys containing not more than 1% Gd are listed here.*

- \*BT1 gadolinium alloys
- \*BT1 rare earth additions

**GADOLINIUM ALLOYS**

*Alloys containing more than 1% Gd.*

- \*BT1 rare earth alloys
- NT1 gadolinium additions
- NT1 gadolinium base alloys

**GADOLINIUM ARSENIDES**

*INIS: 1977-10-17; ETDE: 1977-08-09*

- \*BT1 arsenides
- \*BT1 gadolinium compounds

**GADOLINIUM BASE ALLOYS**

- \*BT1 gadolinium alloys

**GADOLINIUM BORIDES**

- \*BT1 borides
- \*BT1 gadolinium compounds

**GADOLINIUM BROMIDES**

- \*BT1 bromides
- \*BT1 gadolinium compounds

**GADOLINIUM CARBIDES**

- \*BT1 carbides
- \*BT1 gadolinium compounds

**GADOLINIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 gadolinium compounds

**GADOLINIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 gadolinium compounds

**GADOLINIUM COMPLEXES**

- \*BT1 rare earth complexes

**GADOLINIUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 gadolinium arsenides
- NT1 gadolinium borides
- NT1 gadolinium bromides
- NT1 gadolinium carbides
- NT1 gadolinium carbonates
- NT1 gadolinium chlorides
- NT1 gadolinium fluorides
- NT1 gadolinium hydrides
- NT1 gadolinium hydroxides
- NT1 gadolinium iodides
- NT1 gadolinium nitrates
- NT1 gadolinium nitrides
- NT1 gadolinium oxides
- NT1 gadolinium perchlorates
- NT1 gadolinium phosphates
- NT1 gadolinium phosphides
- NT1 gadolinium selenides
- NT1 gadolinium silicides
- NT1 gadolinium sulfates
- NT1 gadolinium sulfides
- NT1 gadolinium tellurides
- NT1 gadolinium tungstates

**GADOLINIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 gadolinium compounds

**GADOLINIUM HYDRIDES**

- \*BT1 gadolinium compounds
- \*BT1 hydrides

**GADOLINIUM HYDROXIDES**

- \*BT1 gadolinium compounds
- \*BT1 hydroxides

**GADOLINIUM IODIDES**

- \*BT1 gadolinium compounds
- \*BT1 iodides

**GADOLINIUM IONS**

- \*BT1 ions

**GADOLINIUM ISOTOPES**

1997-01-30

- BT1 isotopes
- NT1 gadolinium 134
- NT1 gadolinium 135
- NT1 gadolinium 136
- NT1 gadolinium 137
- NT1 gadolinium 138
- NT1 gadolinium 139
- NT1 gadolinium 140
- NT1 gadolinium 141
- NT1 gadolinium 142
- NT1 gadolinium 143
- NT1 gadolinium 144
- NT1 gadolinium 145
- NT1 gadolinium 146
- NT1 gadolinium 147
- NT1 gadolinium 148
- NT1 gadolinium 149
- NT1 gadolinium 150
- NT1 gadolinium 151
- NT1 gadolinium 152
- NT1 gadolinium 153
- NT1 gadolinium 154
- NT1 gadolinium 155
- NT1 gadolinium 156
- NT1 gadolinium 157
- NT1 gadolinium 158
- NT1 gadolinium 159
- NT1 gadolinium 160
- NT1 gadolinium 161
- NT1 gadolinium 162
- NT1 gadolinium 163
- NT1 gadolinium 164
- NT1 gadolinium 165
- NT1 gadolinium 166
- NT1 gadolinium 167
- NT1 gadolinium 168
- NT1 gadolinium 169

**GADOLINIUM NITRATES**

- \*BT1 gadolinium compounds
- \*BT1 nitrates

**GADOLINIUM NITRIDES**

- \*BT1 gadolinium compounds
- \*BT1 nitrides

**GADOLINIUM OXIDES**

- \*BT1 gadolinium compounds
- \*BT1 oxides

**GADOLINIUM PERCHLORATES**

- \*BT1 gadolinium compounds
- \*BT1 perchlorates

**GADOLINIUM PHOSPHATES**

- \*BT1 gadolinium compounds
- \*BT1 phosphates

**GADOLINIUM PHOSPHIDES**

*INIS: 1979-02-21; ETDE: 1976-08-25*

- \*BT1 gadolinium compounds

- \*BT1 phosphides

**GADOLINIUM SELENIDES**

*INIS: 1977-01-25; ETDE: 1976-08-24*

- \*BT1 gadolinium compounds
- \*BT1 selenides

**GADOLINIUM SILICIDES**

- \*BT1 gadolinium compounds
- \*BT1 silicides

**GADOLINIUM SULFATES**

- \*BT1 gadolinium compounds
- \*BT1 sulfates

**GADOLINIUM SULFIDES**

- \*BT1 gadolinium compounds
- \*BT1 sulfides

**GADOLINIUM TELLURIDES**

*INIS: 1977-01-25; ETDE: 1977-04-13*

- \*BT1 gadolinium compounds
- \*BT1 tellurides

**GADOLINIUM TUNGSTATES**

1988-02-02

- \*BT1 gadolinium compounds
- \*BT1 tungstates

**gages (pressure)**

USE pressure gages

**gages (strain)**

USE strain gages

**GAIN**

- BT1 amplification
- RT amplifiers
- RT lock-in amplifiers

**GALACTIC EVOLUTION**

- BT1 evolution
- RT astrophysics
- RT cosmological models
- RT cosmology
- RT galaxies
- RT planet-system accretion
- RT star evolution
- RT universe

**GALACTOSE**

- \*BT1 aldehydes
- \*BT1 hexoses
- RT cerebroside

**GALACTOSIDASE**

*Code numbers 3.2.1.22 and 3.2.1.23.*

- \*BT1 o-glycosyl hydrolases

**GALACTURONIC ACID**

- \*BT1 aldehydes
- \*BT1 hydroxy acids
- RT pectins

**GALAXIES**

- UF local group
- NT1 magellanic clouds
- NT1 markarian galaxies
- NT1 milky way
- NT1 radio galaxies
- NT1 seyfert galaxies
- NT1 x-ray galaxies
- RT galactic evolution
- RT galaxy clusters
- RT galaxy nuclei
- RT nebulae
- RT nonluminous matter

**GALAXY CLUSTERS**

- UF clusters (galaxy)
- RT galaxies

**GALAXY NUCLEI***INIS: 1978-11-24; ETDE: 1978-12-20**Central part of galaxies.**RT galaxies***GALENA**

\*BT1 sulfide minerals

*RT lead sulfides***GALERKIN-PETROV METHOD***UF petrov-galerkin method*

\*BT1 iterative methods

*RT analytical solution**RT equations**RT mathematics**RT numerical solution***GALILEI TRANSFORMATIONS**

BT1 transformations

*RT group theory**RT mechanics**RT space-time**RT special relativity theory***galileo galilei italy**

USE rts-1 reactor

**gallbladder**

USE biliary tract

**GALLIC ACID***UF trihydroxybenzoic acid*

\*BT1 hydroxy acids

**GALLIUM**

\*BT1 metals

**GALLIUM 56***2007-04-19*

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

**GALLIUM 57***2007-04-19*

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

**GALLIUM 58***2007-04-19*

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

**GALLIUM 59***2007-04-19*

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

**GALLIUM 60***2002-02-21*

\*BT1 beta-plus decay radioisotopes

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**GALLIUM 61***1980-05-14*

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

**GALLIUM 62**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**GALLIUM 63**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**GALLIUM 64**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**GALLIUM 65**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**GALLIUM 65 TARGET***ETDE: 1976-07-09*

BT1 targets

**GALLIUM 66**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 gallium isotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

**GALLIUM 67**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

**GALLIUM 67 TARGET***ETDE: 1976-07-09*

BT1 targets

**GALLIUM 68**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 gallium isotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

**GALLIUM 69**

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 stable isotopes

**GALLIUM 69 TARGET***ETDE: 1976-07-09*

BT1 targets

**GALLIUM 70**

\*BT1 beta-minus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**GALLIUM 71**

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 stable isotopes

**GALLIUM 71 TARGET***ETDE: 1976-07-09*

BT1 targets

**GALLIUM 72**

\*BT1 beta-minus decay radioisotopes

\*BT1 gallium isotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**GALLIUM 73**

\*BT1 beta-minus decay radioisotopes

\*BT1 gallium isotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

**GALLIUM 74**

\*BT1 beta-minus decay radioisotopes

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**GALLIUM 75**

\*BT1 beta-minus decay radioisotopes

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**GALLIUM 76**

\*BT1 beta-minus decay radioisotopes

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**GALLIUM 77**

\*BT1 beta-minus decay radioisotopes

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**GALLIUM 78**

\*BT1 beta-minus decay radioisotopes

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**GALLIUM 79***INIS: 1976-01-27; ETDE: 1975-10-01*

\*BT1 beta-minus decay radioisotopes

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**GALLIUM 80***INIS: 1976-01-27; ETDE: 1975-10-01*

\*BT1 beta-minus decay radioisotopes

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**GALLIUM 81***INIS: 1977-06-13; ETDE: 1976-07-07*

\*BT1 beta-minus decay radioisotopes

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**GALLIUM 82***INIS: 1980-07-24; ETDE: 1976-07-07*

\*BT1 beta-minus decay radioisotopes

\*BT1 gallium isotopes

\*BT1 intermediate mass nuclei

- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 83**

*INIS: 1980-07-24; ETDE: 1976-07-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**GALLIUM 84**

*1992-03-18*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 85**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**GALLIUM 86**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**GALLIUM ADDITIONS**

*Alloys containing not more than 1% Ga are listed here.*

- \*BT1 gallium alloys

**GALLIUM ALLOYS**

*Alloys containing more than 1% Ga.*

- BT1 alloys
- NT1 gallium additions
- NT1 gallium base alloys

**GALLIUM ANTIMONIDES**

*INIS: 1994-04-11; ETDE: 1976-08-04*

- \*BT1 antimonides
- BT1 gallium compounds

**GALLIUM ARSENIDE SOLAR CELLS**

*1992-05-28*

- \*BT1 solar cells

**GALLIUM ARSENIDES**

- \*BT1 arsenides
- BT1 gallium compounds

**GALLIUM BASE ALLOYS**

- \*BT1 gallium alloys

**GALLIUM BROMIDES**

- \*BT1 bromides
- \*BT1 gallium halides

**GALLIUM CARBIDES**

- \*BT1 carbides
- BT1 gallium compounds

**GALLIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 gallium halides

**GALLIUM COMPLEXES**

- BT1 complexes

**GALLIUM COMPOUNDS**

- NT1 gallium antimonides
- NT1 gallium arsenides
- NT1 gallium carbides
- NT1 gallium halides
- NT2 gallium bromides
- NT2 gallium chlorides
- NT2 gallium fluorides

- NT2 gallium iodides
- NT1 gallium hydroxides
- NT1 gallium nitrates
- NT1 gallium nitrides
- NT1 gallium oxides
- NT1 gallium phosphates
- NT1 gallium phosphides
- NT1 gallium selenides
- NT1 gallium sulfates
- NT1 gallium sulfides
- NT1 gallium tellurides

**GALLIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 gallium halides

**GALLIUM HALIDES**

*INIS: 1991-09-16; ETDE: 1984-06-29*

- BT1 gallium compounds
- \*BT1 halides
- NT1 gallium bromides
- NT1 gallium chlorides
- NT1 gallium fluorides
- NT1 gallium iodides

**GALLIUM HYDROXIDES**

- BT1 gallium compounds
- \*BT1 hydroxides

**GALLIUM IODIDES**

- \*BT1 gallium halides
- \*BT1 iodides

**GALLIUM IONS**

- \*BT1 ions

**GALLIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 gallium 56
- NT1 gallium 57
- NT1 gallium 58
- NT1 gallium 59
- NT1 gallium 60
- NT1 gallium 61
- NT1 gallium 62
- NT1 gallium 63
- NT1 gallium 64
- NT1 gallium 65
- NT1 gallium 66
- NT1 gallium 67
- NT1 gallium 68
- NT1 gallium 69
- NT1 gallium 70
- NT1 gallium 71
- NT1 gallium 72
- NT1 gallium 73
- NT1 gallium 74
- NT1 gallium 75
- NT1 gallium 76
- NT1 gallium 77
- NT1 gallium 78
- NT1 gallium 79
- NT1 gallium 80
- NT1 gallium 81
- NT1 gallium 82
- NT1 gallium 83
- NT1 gallium 84
- NT1 gallium 85
- NT1 gallium 86

**GALLIUM NITRATES**

*1977-06-13*

- BT1 gallium compounds
- \*BT1 nitrates

**GALLIUM NITRIDES**

- BT1 gallium compounds
- \*BT1 nitrides

**GALLIUM OXIDES**

- BT1 gallium compounds

- \*BT1 oxides

**GALLIUM PHOSPHATES**

*INIS: 1977-09-15; ETDE: 1975-10-01*

- BT1 gallium compounds
- \*BT1 phosphates

**GALLIUM PHOSPHIDE SOLAR CELLS**

*2000-04-12*

- \*BT1 solar cells

**GALLIUM PHOSPHIDES**

- BT1 gallium compounds
- \*BT1 phosphides

**GALLIUM SELENIDES**

*1976-07-06*

- BT1 gallium compounds
- \*BT1 selenides

**GALLIUM SULFATES**

- BT1 gallium compounds
- \*BT1 sulfates

**GALLIUM SULFIDES**

- BT1 gallium compounds
- \*BT1 sulfides

**GALLIUM TELLURIDES**

*1977-09-06*

- BT1 gallium compounds
- \*BT1 tellurides

**gallotannic acid**

- USE tannic acid

**gallstones**

- USE biliary tract
- USE calculi

**galoter process**

*INIS: 2000-04-12; ETDE: 1977-03-08*

*Shale fines are processed in rotating kiln and hot spent shale is used as heat carrier. (Prior to January 1995, this was a valid ETDE descriptor.)*

- SEE oil shales

**galvanic corrosion**

- USE electrochemical corrosion

**GALVANOMAGNETIC EFFECT**

- RT magnetic fields

**GALVANOMETERS**

- \*BT1 electric measuring instruments

**GALVESTON BAY**

*INIS: 1992-01-09; ETDE: 1976-10-13*

- \*BT1 bays
- \*BT1 gulf of mexico
- RT texas

**GAMBIA**

*INIS: 1991-10-22; ETDE: 1978-07-05*

- BT1 africa
- BT1 developing countries

**GAME THEORY**

*INIS: 1996-05-06; ETDE: 1977-05-07*

*Application of mathematics to a game, business situation, or other problem to maximize gain and minimize loss.*

- \*BT1 statistics
- RT decision making
- RT information theory
- RT probability

**GAMETES**

- BT1 germ cells
- NT1 ova
- NT1 pollen
- NT1 spermatozoa

RT fertilization  
 RT gametogenesis  
 RT haploidy  
 RT zygotes

**GAMETOGENESIS**

NT1 oogenesis  
 NT1 spermatogenesis  
 RT cell division  
 RT gametes  
 RT germ cells  
 RT gonads  
 RT meiosis

**GAMMA 10 DEVICES**

INIS: 1989-02-24; ETDE: 1989-03-20  
 Tsukuba University, Japan.  
 \*BT1 tandem mirrors

**GAMMA ASTRONOMY**

INIS: 1978-07-31; ETDE: 1978-09-11  
 For photon energies above 100 keV.  
 BT1 astronomy  
 RT cosmic gamma sources  
 RT cosmic radiation  
 RT cosmic x-ray sources

**gamma benzene hexachloride**

INIS: 1976-05-07; ETDE: 2002-06-13  
 USE lindane

**GAMMA CAMERAS**

Instruments consisting of a large, thin scintillation crystal or array of photomultiplier tubes, a multichannel collimator, and circuitry to analyze the pulses produced by the photomultiplier.  
 UF scintillation cameras  
 BT1 cameras  
 NT1 positron cameras  
 RT compton scattering tomography  
 RT emission computed tomography  
 RT nuclear medicine  
 RT radioisotope scanners  
 RT single photon emission computed tomography

**GAMMA CASCADES**

\*BT1 nuclear cascades  
 RT cascade theory

**GAMMA DECAY**

INIS: 1978-02-23; ETDE: 1988-10-12  
 \*BT1 nuclear decay  
 RT internal conversion

**GAMMA DETECTION**

UF photon detection (gamma)  
 \*BT1 radiation detection  
 RT compton diode detectors  
 RT filament crystal counters  
 RT gamma dosimetry  
 RT gamma spectrometers  
 RT gamma spectroscopy  
 RT radiation detectors  
 RT radioisotope scanning

**GAMMA DIFFRACTOMETERS**

\*BT1 diffractometers  
 RT crystallography  
 RT diffraction  
 RT x-ray diffractometers

**GAMMA DOSIMETRY**

BT1 dosimetry  
 RT gamma detection

**GAMMA FUEL SCANNING**

BT1 fuel scanning  
 \*BT1 gamma radiography

**GAMMA FUNCTION**

BT1 functions

RT mathematics

**GAMMA-GAMMA LOGGING**

INIS: 1976-10-29; ETDE: 1976-06-07  
 Gamma source and gamma detector.  
 UF density log  
 \*BT1 radioactivity logging

**gamma heating**

USE radiation heating

**gamma hexachlorohexane**

INIS: 1976-05-07; ETDE: 2002-06-13  
 USE lindane

**GAMMA LOGGING**

INIS: 1976-10-29; ETDE: 1976-06-07  
 Logging the natural gamma activity of a well.  
 \*BT1 radioactivity logging  
 RT natural radioactivity

**GAMMA RADIATION**

\*BT1 electromagnetic radiation  
 \*BT1 ionizing radiations  
 NT1 delayed gamma radiation  
 NT1 prompt gamma radiation  
 RT cosmic gamma sources  
 RT gamma sources  
 RT gamma spectra  
 RT photons  
 RT x radiation

**GAMMA RADIOGRAPHY**

1999-12-03  
 \*BT1 industrial radiography  
 NT1 gamma fuel scanning

**gamma-ray lasers**

INIS: 1981-04-03; ETDE: 1978-03-08  
 (Prior to August 1981, this was a valid ETDE descriptor.)  
 USE gasers

**gamma reactions**

INIS: 2000-04-12; ETDE: 1985-03-12  
 USE photonuclear reactions

**GAMMA SOURCES**

For cosmic sources of gamma radiation use COSMIC GAMMA SOURCES.  
 BT1 radiation sources  
 RT gamma radiation  
 RT gasers

**GAMMA SPECTRA**

BT1 spectra  
 RT escape peaks  
 RT gamma radiation

**GAMMA SPECTROMETERS**

\*BT1 spectrometers  
 NT1 compton spectrometers  
 NT1 moessbauer spectrometers  
 NT1 pair spectrometers  
 RT gamma detection  
 RT whole-body counters

**gamma spectrometry**

INIS: 1975-10-23; ETDE: 2002-06-13  
 USE gamma spectroscopy

**GAMMA SPECTROSCOPY**

UF gamma spectrometry  
 BT1 spectroscopy  
 RT fuel cooling time  
 RT gamma detection  
 RT radiometric surveys

**gamma transmission scanning**

USE photon transmission scanning

**GAMMA TRANSPORT THEORY**

BT1 transport theory

RT photon transport

**GAMMAPHOS**

1984-05-24  
 S-2-(Omega-aminopropylaminoethyl) phosphorothioate.  
 \*BT1 amines  
 \*BT1 radioprotective substances  
 \*BT1 thiophosphoric acid esters

**gammel-brueckner potential**

1999-12-06  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE nucleon-nucleon potential

**gammel-christian-thaler theory**

USE gammel-thaler potential

**GAMMEL-THALER POTENTIAL**

UF gammel-christian-thaler theory  
 \*BT1 ope potential

**GAMOW BARRIER**

UF gamow factor  
 RT alpha decay  
 RT nuclear potential

**gamow factor**

USE gamow barrier

**gamow-teller decay**

USE gamow-teller rules

**GAMOW-TELLER RULES**

UF gamow-teller decay  
 UF gamow-teller theory  
 RT beta decay

**gamow-teller theory**

USE gamow-teller rules

**GANGA RIVER**

UF ganges river  
 \*BT1 rivers  
 RT bangladesh  
 RT india

**ganges river**

INIS: 1999-12-31; ETDE: 1976-05-17  
 USE ganga river

**GANGLIONS**

BT1 nervous system  
 RT autonomic nervous system  
 RT spinal cord  
 RT thalamus

**GANGLIOSIDES**

\*BT1 glycolipids  
 \*BT1 organic nitrogen compounds  
 RT sialic acid

**GANGRENE**

\*BT1 necrosis  
 RT ulcers

**GANGUE**

BT1 residues  
 RT slags

**ganil**

INIS: 1999-12-31; ETDE: 1976-05-13  
 (Prior to July 1985, this was a valid ETDE descriptor.)  
 USE ganil cyclotron

**GANIL CYCLOTRON**

INIS: 1976-07-30; ETDE: 1979-05-31  
*Grand Accelérateur National à Ions Lourds; a heavy ion accelerator consisting of two identical isochronous cyclotrons and a particle booster for injection, located in Caen, France.*

UF ganil  
 UF grand accélérateur national d'ions lourds

\*BT1 heavy ion accelerators  
 \*BT1 isochronous cyclotrons  
 RT heavy ions

**garching ipp**

INIS: 2000-04-12; ETDE: 1976-05-19  
 USE ipp garching

**gardenhose instability**

USE hose instability

**GARDENING**

INIS: 1999-12-31; ETDE: 1979-03-29  
 RT agriculture  
 RT horticulture  
 RT leisure time activities

**GARIGLIANO REACTOR**

*Sessa Aurunea, Caserta, Italy.*  
 UF senn reactor  
 \*BT1 bwr type reactors

**GARLIC**

1992-09-09  
 \*BT1 vegetables  
 RT allium sativum  
 RT bulbs  
 RT sprout inhibition

**GARNETS**

1996-11-13  
*For silicate garnets only.*  
 UF andradite  
 \*BT1 silicate minerals  
 RT calcium silicates  
 RT ferrite garnets  
 RT iron silicates

**GARONA REACTOR**

UF santa maria de garona nuclear power plant  
 UF santa maria de garona power reactor  
 \*BT1 bwr type reactors

**garrett process**

INIS: 2000-04-12; ETDE: 1977-03-08  
 USE oxy modified in-situ process

**garrett pyrolysis process**

2000-04-12  
 USE occidental flash pyrolysis process

**GAS ANALYSIS**

1996-01-24  
 UF analysis (gas)  
 SF orsat apparatus  
 RT electron-capture detectors  
 RT gas chromatography  
 RT gases  
 RT ion-mobility detectors  
 RT photoacoustic spectrometers  
 RT quantitative chemical analysis  
 RT radio-release analysis

**GAS APPLIANCES**

INIS: 1993-01-22; ETDE: 1977-06-21  
 UF natural gas appliances  
 UF stoves (gas burning)  
 \*BT1 appliances  
 RT clothes dryers  
 RT clothes washers  
 RT dishwashers

RT freezers  
 RT ovens  
 RT refrigerators  
 RT water heaters

**GAS BEARINGS**

BT1 bearings

**GAS BLANKETS**

INIS: 1975-08-22; ETDE: 1975-10-01  
*For plasma confinement. For other gas blankets see COVER GAS or INERT ATMOSPHERE.*

UF blankets (gas)  
 RT plasma  
 RT plasma confinement

**GAS BUBBLE DISEASE**

INIS: 2000-01-04; ETDE: 1976-04-19  
 RT water quality

**GAS BURNERS**

INIS: 1992-06-04; ETDE: 1979-05-09  
 BT1 burners  
 RT combustion  
 RT gas furnaces

**gas bursts**

INIS: 2000-01-04; ETDE: 1977-05-07  
 USE rock bursts

**GAS CENTRIFUGATION**

1976-01-27  
 \*BT1 centrifugation  
 \*BT1 isotope separation  
 RT centrifuge enrichment plants  
 RT gas centrifuges  
 RT isotope enriched materials  
 RT isotopes  
 RT ultracentrifugation

**GAS CENTRIFUGES**

\*BT1 centrifuges  
 RT gas centrifugation  
 RT isotope separation  
 RT ultracentrifuges

**GAS CHROMATOGRAPHY**

\*BT1 chromatography  
 RT gas analysis  
 RT partition

**GAS COMBUSTION PROCESS**

2000-04-12  
*A process that involves the direct heating of oil shales by hot gases from combustion within the retorting vessel.*  
 RT oil shales

**GAS COMPRESSORS**

ETDE: 1975-09-12  
 BT1 compressors  
 RT compressed gases  
 RT vapor compression refrigeration cycle

**GAS CONDENSATE FIELDS**

INIS: 1993-01-18; ETDE: 1977-07-23  
*Oil and gas reservoirs that produce more gas than oil. Condensate does not appear until the gas climbs the well bore and its temperature and pressure are reduced sufficiently to condense some of it into liquid petroleum.*  
 \*BT1 natural gas fields  
 \*BT1 petroleum deposits  
 RT gas condensate wells  
 RT oil fields

**GAS CONDENSATE WELLS**

INIS: 1992-09-07; ETDE: 1982-12-01  
 BT1 wells  
 RT gas condensate fields  
 RT gas condensates  
 RT natural gas wells

RT oil wells

**GAS CONDENSATES**

INIS: 1992-08-13; ETDE: 1980-05-23  
 BT1 condensates  
 \*BT1 natural gas liquids  
 RT gas condensate wells

**gas coolants**

USE gases

**gas cooled fast breeder reactor**

1993-11-08  
 USE gcfr reactor

**gas cooled fast breeder reactors**

1993-11-08  
 USE gcfr type reactors

**gas cooled graphite moderated reactors**

2000-01-05  
 USE gcr type reactors

**gas cooled reactor experiment**

2000-04-12  
 USE gere reactor

**GAS COOLED REACTORS**

SF 710 reactor  
 BT1 reactors  
 NT1 air cooled reactors  
 NT2 afsr reactor  
 NT2 bepo reactor  
 NT2 bgrr reactor  
 NT2 br-1 reactor  
 NT2 g-1 reactor  
 NT2 gleep reactor  
 NT2 harmonie reactor  
 NT2 hprr reactor  
 NT2 kalpakkam pfr reactor  
 NT2 masurca reactor  
 NT2 sneak reactor  
 NT2 stf reactor  
 NT2 tory-2a reactor  
 NT2 tory-2c reactor  
 NT2 treat reactor  
 NT2 windscale production reactors  
 NT2 x-10 reactor  
 NT2 xma-1 reactor  
 NT2 zed-2 reactor  
 NT1 carbon dioxide cooled reactors  
 NT2 berkeley reactor  
 NT2 bohunice a-1 reactor  
 NT2 bradwell reactor  
 NT2 bugey-1 reactor  
 NT2 calder hall a-1 reactor  
 NT2 calder hall a-2 reactor  
 NT2 calder hall b-3 reactor  
 NT2 calder hall b-4 reactor  
 NT2 cesar reactor  
 NT2 chapelcross-1 reactor  
 NT2 chapelcross-2 reactor  
 NT2 chapelcross-3 reactor  
 NT2 chapelcross-4 reactor  
 NT2 chinon-1 reactor  
 NT2 chinon-2 reactor  
 NT2 chinon-3 reactor  
 NT2 connah quay-b reactor  
 NT2 dungeness-a reactor  
 NT2 dungeness-b reactor  
 NT2 el-2 reactor  
 NT2 el-4 reactor  
 NT2 g-2 reactor  
 NT2 g-3 reactor  
 NT2 hartlepool reactor  
 NT2 hector reactor  
 NT2 hero reactor  
 NT2 heysham-a reactor  
 NT2 heysham-b reactor



NT2 hinkley point-a reactor  
 NT2 hinkley point-b reactor  
 NT2 hunterston-a reactor  
 NT2 hunterston-b reactor  
 NT2 latina reactor  
 NT2 lucens reactor  
 NT2 niederaichbach reactor  
 NT2 oldbury-a reactor  
 NT2 oldbury-b reactor  
 NT2 saint laurent-1 reactor  
 NT2 saint laurent-2 reactor  
 NT2 sizewell-a reactor  
 NT2 tokai-mura reactor  
 NT2 torness reactor  
 NT2 trawsfynydd reactor  
 NT2 vandellos reactor  
 NT2 wagr reactor  
 NT2 wylfa reactor  
 NT1 ewg-1 reactor  
 NT1 gcf type reactors  
 NT2 gcf reactor  
 NT1 gcr type reactors  
 NT2 agr type reactors  
 NT3 connah quay-b reactor  
 NT3 dungeness-b reactor  
 NT3 hartlepool reactor  
 NT3 heysham-a reactor  
 NT3 heysham-b reactor  
 NT3 hinkley point-b reactor  
 NT3 hunterston-b reactor  
 NT3 torness reactor  
 NT3 wagr reactor  
 NT2 bugey-1 reactor  
 NT2 chinon-1 reactor  
 NT2 chinon-2 reactor  
 NT2 chinon-3 reactor  
 NT2 g-1 reactor  
 NT2 g-2 reactor  
 NT2 g-3 reactor  
 NT2 magnox type reactors  
 NT3 berkeley reactor  
 NT3 bradwell reactor  
 NT3 calder hall a-1 reactor  
 NT3 calder hall a-2 reactor  
 NT3 calder hall b-3 reactor  
 NT3 calder hall b-4 reactor  
 NT3 chapelcross-1 reactor  
 NT3 chapelcross-2 reactor  
 NT3 chapelcross-3 reactor  
 NT3 chapelcross-4 reactor  
 NT3 dungeness-a reactor  
 NT3 hinkley point-a reactor  
 NT3 hunterston-a reactor  
 NT3 latina reactor  
 NT3 oldbury-a reactor  
 NT3 sizewell-a reactor  
 NT3 tokai-mura reactor  
 NT3 trawsfynydd reactor  
 NT3 wylfa reactor  
 NT2 saint laurent-1 reactor  
 NT2 saint laurent-2 reactor  
 NT2 vandellos reactor  
 NT1 helium cooled reactors  
 NT2 avr reactor  
 NT2 dragon reactor  
 NT2 ebor reactor  
 NT2 egcr reactor  
 NT2 fulton-1 reactor  
 NT2 fulton-2 reactor  
 NT2 gcf reactor  
 NT2 gcre reactor  
 NT2 htr-10 reactor  
 NT2 httr reactor  
 NT2 iea-zpr reactor  
 NT2 peach bottom-1 reactor  
 NT2 schmehausen-2 reactor  
 NT2 summit-1 reactor  
 NT2 summit-2 reactor  
 NT2 thtr-300 reactor  
 NT2 uhtrex reactor  
 NT2 vg-400 reactor  
 NT2 vgr-50 reactor  
 NT2 vhtr reactor  
 NT2 vidal-1 reactor  
 NT2 vidal-2 reactor  
 NT2 vrain reactor  
 NT1 htgr type reactors  
 NT2 avr reactor  
 NT2 dragon reactor  
 NT2 fulton-1 reactor  
 NT2 fulton-2 reactor  
 NT2 ga standard reactor  
 NT2 htr-10 reactor  
 NT2 httr reactor  
 NT2 kahter reactor  
 NT2 peach bottom-1 reactor  
 NT2 schmehausen-2 reactor  
 NT2 summit-1 reactor  
 NT2 summit-2 reactor  
 NT2 thtr-300 reactor  
 NT2 vg-400 reactor  
 NT2 vgr-50 reactor  
 NT2 vhtr reactor  
 NT2 vidal-1 reactor  
 NT2 vidal-2 reactor  
 NT2 vrain reactor  
 NT1 hwgcr type reactors  
 NT2 bohunice a-1 reactor  
 NT2 bohunice a-2 reactor  
 NT2 el-4 reactor  
 NT2 lucens reactor  
 NT2 niederaichbach reactor  
 NT1 hydrogen cooled reactors  
 NT2 kiwi reactors  
 NT3 kiwi-tnt reactor  
 NT2 nerva reactor  
 NT2 nrx-a2 reactor  
 NT2 nrx-a3 reactor  
 NT2 nrx-a4-est reactor  
 NT2 nrx-a5 reactor  
 NT2 nrx-a6 reactor  
 NT2 pewee-1 reactor  
 NT2 pewee-2 reactor  
 NT2 pewee-3 reactor  
 NT2 pewee-4 reactor  
 NT2 phoebus-1a reactor  
 NT2 phoebus-1b reactor  
 NT2 phoebus-2a reactor  
 NT2 rover reactors  
 NT2 xe-prime reactor  
 NT1 nitrogen cooled reactors  
 NT2 httr reactor  
 NT2 ml-1 reactor  
 NT2 zenith reactor  
 NT1 pebble bed reactors  
 NT2 avr reactor  
 NT2 thtr-300 reactor  
 NT2 vg-400 reactor  
 NT2 vgr-50 reactor  
 RT steam cooled reactors

## GAS COOLING

BT1 cooling

## GAS CYLINDERS

BT1 containers

## GAS DISCHARGE TUBES

1996-01-24

BT1 electron tubes

NT1 flash tubes

NT1 ignitrons

NT1 thyratrons

## GAS DYNAMIC LASERS

INIS: 1992-08-11; ETDE: 1981-08-21

\*BT1 gas lasers

## gas engines

1994-09-09

USE internal combustion engines

## gas fields

INIS: 1992-02-19; ETDE: 1976-03-11

USE natural gas fields

## GAS FLOW

UF dampers (gas flow)

UF draft control systems

BT1 fluid flow

NT1 air flow

NT1 knudsen flow

NT1 slip flow

RT aerodynamics

RT air curtains

RT air infiltration

RT compressible flow

RT electrogasdynamics

RT magnetogasdynamics

RT multiphase flow

RT two-phase flow

## GAS-FLOW PROCESSES

INIS: 2000-04-12; ETDE: 1975-11-11

*Oil shale retorting processes in which heat transfer is effected by an externally heated carrier fluid, in this case superheated steam mixed with air.*

RT oil shales

## GAS FUELED REACTORS

\*BT1 fluid fueled reactors

\*BT1 homogeneous reactors

NT1 coaxial flow reactors

NT1 light bulb reactors

NT1 plasma core assembly

RT gas fuels

## GAS FUELS

2000-01-05

BT1 fuels

NT1 fuel gas

NT2 high btu gas

NT2 intermediate btu gas

NT3 carburetted water gas

NT3 town gas

NT3 water gas

NT2 landfill gas

NT2 low btu gas

NT3 producer gas

NT2 natural gas

NT3 abiogenic gas

NT3 liquefied natural gas

RT fissioning plasma

RT gas fueled reactors

RT nuclear fuels

## GAS FURNACES

INIS: 1993-03-10; ETDE: 1977-03-04

BT1 furnaces

RT gas burners

## GAS GENERATORS

INIS: 2000-01-04; ETDE: 1976-11-17

*Devices used to generate gases in the laboratory; chemical plants for producing gas from coal, for example, water gas.*

NT1 hydrogen generators

RT furnaces

RT gases

RT oil shale processing plants

RT wellman-incandescent process

## GAS HEAT PUMPS

INIS: 2000-01-05; ETDE: 1980-11-25

BT1 heat pumps

RT natural gas

RT space hvac systems

**GAS HYDRATES**

*INIS: 1993-01-28; ETDE: 1977-01-28*  
 Crystalline solid clathrate compound formed by natural gas and water and insoluble in water.

UF methane hydrates  
 BT1 hydrates  
 RT natural gas  
 RT natural gas hydrate deposits  
 RT pipelines

**GAS INJECTION**

*INIS: 1981-07-06; ETDE: 1976-03-11*

BT1 fluid injection  
 RT petroleum  
 RT thermonuclear fuels  
 RT thermonuclear reactor fueling  
 RT well stimulation

**GAS-INSULATED CABLES**

*INIS: 1976-08-17; ETDE: 1976-03-11*

\*BT1 electric cables  
 RT power transmission  
 RT power transmission lines  
 RT superconducting cables

**GAS-INSULATED SUBSTATIONS**

*INIS: 1993-03-24; ETDE: 1982-03-10*

BT1 power substations  
 RT power distribution systems  
 RT sulfur fluorides

**GAS-INSULATED TRANSFORMERS**

*INIS: 2000-01-05; ETDE: 1981-05-18*

\*BT1 transformers  
 RT power systems  
 RT power transmission

**GAS LASERS**

*1995-07-21*

BT1 lasers  
 NT1 carbon dioxide lasers  
 NT1 carbon monoxide lasers  
 NT1 excimer lasers  
 NT2 krypton chloride lasers  
 NT2 krypton fluoride lasers  
 NT1 gas dynamic lasers  
 NT1 helium-neon lasers  
 NT1 helium-xenon lasers  
 NT1 iodine lasers  
 NT1 metal vapor lasers

**GAS LIFTS**

*INIS: 1992-07-21; ETDE: 1977-01-28*

*Process of lifting fluids from a well by injecting relatively high-pressure gas.*

BT1 artificial lifts  
 RT oil wells  
 RT petroleum

**GAS LUBRICANTS**

BT1 lubricants

**GAS METAL-ARC WELDING**

\*BT1 arc welding  
 NT1 gas tungsten-arc welding

**GAS METERS**

*INIS: 1992-03-12; ETDE: 1978-04-06*

UF hydrocarbon logging  
 \*BT1 meters  
 RT energy consumption  
 RT master metering  
 RT natural gas

**gas odorization**

*INIS: 2000-04-12; ETDE: 1977-03-04*

USE odorization

**GAS OILS**

*1992-01-09*

*Petroleum distillates boiling within the general range 204 degrees to 593 degrees C.*

\*BT1 petroleum distillates  
 BT1 petroleum products  
 NT1 diesel fuels  
 NT1 fuel oils  
 NT2 heating oils  
 NT2 residual fuels  
 NT1 kerosene

**gas production rates**

*INIS: 2000-04-12; ETDE: 1979-09-26*

*Rates for production of helium or hydrogen in the lattice structure of reactor structural materials, induced by neutron irradiation. (Prior to June 1994, this was a valid ETDE descriptor.)*

SEE interstitial helium generation  
 SEE interstitial hydrogen generation

**GAS RECYCLE HYDROGENATION PROCESS**

*INIS: 2000-04-12; ETDE: 1976-01-23*

*Gasification of distillate feed stock produced from crude oil to manufacture sng.*

BT1 sng processes  
 RT petroleum  
 RT steam reformer processes

**GAS SATURATION**

*INIS: 1992-07-10; ETDE: 1977-06-02*

*Degree of filling of reservoir pore structure by reservoir gas.*

UF reservoir gas saturation  
 BT1 saturation  
 RT oil saturation  
 RT reservoir rock  
 RT water saturation

**GAS SCINTILLATION DETECTORS**

\*BT1 scintillation counters  
 RT proportional counters  
 RT rare gases

**GAS SPILLS**

*INIS: 1992-04-09; ETDE: 1976-07-07*

UF lng spills  
 BT1 accidents  
 RT chemical spills  
 RT hazardous materials spills  
 RT natural gas  
 RT pollution

**gas stations**

*INIS: 2000-04-12; ETDE: 1979-05-09*

USE gasoline service stations

**GAS TRACK DETECTORS**

UF track detectors (gas)  
 \*BT1 radiation detectors  
 NT1 bubble chambers  
 NT2 cryogenic bubble chambers  
 NT2 heavy liquid bubble chambers  
 NT2 ultrasonic bubble chambers  
 NT1 cloud chambers  
 NT2 diffusion chambers  
 NT2 expansion chambers  
 NT1 spark chambers  
 NT2 filmless spark chambers  
 NT3 sonic spark chambers  
 NT3 wire spark chambers  
 NT2 projection spark chambers  
 NT2 streamer spark chambers  
 NT2 wide gap spark chambers

**GAS TUNGSTEN-ARC WELDING**

\*BT1 gas metal-arc welding

**GAS TURBINE ENGINES**

*INIS: 1992-05-04; ETDE: 1979-02-23*

\*BT1 internal combustion engines  
 RT aaps  
 RT coal-fired gas turbines

**GAS TURBINE POWER PLANTS**

*INIS: 1982-12-06; ETDE: 1979-09-06*

BT1 power plants  
 RT coal-fired gas turbines  
 RT combined-cycle power plants  
 RT gas turbines  
 RT peaking power plants  
 RT power generation

**GAS TURBINES**

\*BT1 turbines  
 NT1 coal-fired gas turbines  
 RT brayton cycle power systems  
 RT gas turbine power plants  
 RT steam turbines

**GAS UTILITIES**

*INIS: 1992-04-09; ETDE: 1978-02-14*

SF utilities  
 BT1 public utilities  
 RT load analysis  
 RT master metering  
 RT natural gas distribution systems  
 RT natural gas industry

**GAS WELDING**

\*BT1 welding

**gas wells**

*INIS: 1976-05-07; ETDE: 1975-10-01*

USE natural gas wells

**GAS YIELDS**

*INIS: 1993-07-21; ETDE: 1976-04-19*

BT1 yields  
 RT productivity

**GASBUGGY EVENT**

\*BT1 crosstie operation  
 BT1 plowshare project  
 RT natural gas  
 RT oil shales

**GASEOUS DIFFUSION**

BT1 diffusion

**GASEOUS DIFFUSION PLANTS**

UF enrichment plants (gaseous diffusion)  
 \*BT1 isotope separation plants  
 NT1 cogema pierrelatte  
 NT1 orgdp  
 NT1 paducah plant  
 NT1 portsmouth gaseous diffusion plant  
 RT diffusion barriers  
 RT eurodif  
 RT gaseous diffusion process  
 RT nuclear industry

**GASEOUS DIFFUSION PROCESS**

\*BT1 isotope separation  
 RT diffusion barriers  
 RT gaseous diffusion plants  
 RT orgdp

**gaseous effluents**

USE gaseous wastes

**GASEOUS WASTES**

UF effluents (gaseous)  
 UF gaseous effluents  
 UF radioactive gaseous wastes  
 BT1 wastes  
 NT1 exhaust gases  
 NT1 flue gas  
 RT chemical effluents  
 RT combustion products

RT electrostatic precipitators  
 RT fume hoods  
 RT gases  
 RT ground release  
 RT industrial wastes  
 RT off-gas systems  
 RT plumes  
 RT radioactive effluents  
 RT stack disposal  
 RT stacks  
 RT ventilation  
 RT waste disposal  
 RT waste forms

**GASERS**

INIS: 1999-02-22; ETDE: 1976-05-17  
*Gamma-ray Amplification by Stimulated Emission of Radiation.*

UF *gamma-ray lasers*  
 UF *grasers*  
 SF *stimulated emission devices*  
 RT gamma sources  
 RT lasers  
 RT masers  
 RT nuclear pumping  
 RT stimulated emission

**GASES**

See also *ELECTRON GAS* and *FERMI GAS*.

UF *gas coolants*  
 BT1 fluids  
 NT1 air  
 NT2 compressed air  
 NT2 surface air  
 NT1 associated gas  
 NT1 coal gas  
 NT1 compressed gases  
 NT2 compressed air  
 NT1 cosmic gases  
 NT1 cover gas  
 NT1 dissociating gases  
 NT1 dissolved gases  
 NT1 exhaust gases  
 NT1 fuel gas  
 NT2 high btu gas  
 NT2 intermediate btu gas  
 NT3 carburetted water gas  
 NT3 town gas  
 NT3 water gas  
 NT2 landfill gas  
 NT2 low btu gas  
 NT3 producer gas  
 NT2 natural gas  
 NT3 abiogenic gas  
 NT3 liquefied natural gas  
 NT1 ionized gases  
 NT2 fully ionized gases  
 NT3 lorentz gas  
 NT2 strongly ionized gases  
 NT2 weakly ionized gases  
 NT1 pyrolytic gases  
 NT1 rare gases  
 NT2 argon  
 NT2 helium  
 NT2 krypton  
 NT2 neon  
 NT2 radon  
 NT2 xenon  
 NT1 rarefied gases  
 NT1 refinery gases  
 NT1 shale gas  
 NT1 synthesis gas  
 NT1 vapors  
 NT2 water vapor  
 NT1 volcanic gases  
 RT aeration  
 RT boltzmann equation  
 RT buffers  
 RT coolants  
 RT dispersions

RT electron gas  
 RT fermi gas  
 RT gas analysis  
 RT gas generators  
 RT gaseous wastes  
 RT hard-sphere model  
 RT jesse effect  
 RT kinetic equations  
 RT kinetics  
 RT paschen law  
 RT phase diagrams  
 RT underground disposal  
 RT virial equation

**GASIFICATION**

*Any technique for converting coal or other products into gaseous fuel. For other types of gasification, see EVAPORATION, BOILING, or DISTILLATION.*

BT1 thermochemical processes  
 NT1 biotherm gas process  
 NT1 coal gasification  
 NT2 agglomerating ash process  
 NT2 arc coal process  
 NT2 babcock and wilcox-dupont process  
 NT2 beacon process  
 NT2 bgc-lurgi slagging process  
 NT2 bi-gas process  
 NT2 ce entrained fuel process  
 NT2 coalcon process  
 NT2 cogas process  
 NT2 combined-cycle fw process  
 NT2 consol synthetic gas process  
 NT2 cs-r process  
 NT2 dow gasification process  
 NT2 exxon gasification process  
 NT2 flash hydrolysis process  
 NT2 gegas process  
 NT2 gkt process  
 NT2 htw process  
 NT2 humboldt gasification process  
 NT2 hydrane process  
 NT2 hygas process  
 NT2 i g process  
 NT2 kbw gasification process  
 NT2 kellogg process  
 NT2 kilngas process  
 NT2 kloekner-iron bath coal gasification process  
 NT2 koppers process  
 NT2 koppers-totzek process  
 NT2 krw gasification process  
 NT2 lurgi cfb gasification process  
 NT2 lurgi process  
 NT2 lurgi slagging process  
 NT2 molten iron puregas process  
 NT2 molten salt coal gasification process  
 NT2 moving-burden process  
 NT2 occidental flash pyrolysis process  
 NT2 otto rummel slag bath process  
 NT2 peatgas process  
 NT2 prenflo process  
 NT2 ruhr 100 gasification process  
 NT2 saarberg-otto gasification process  
 NT2 seacoal process  
 NT2 shell-koppers gasification process  
 NT2 synthane process  
 NT2 texaco gasification process  
 NT2 tosco-dyne process  
 NT2 toscoal process  
 NT2 u-gas process  
 NT2 wellman-galusha process  
 NT2 wellman-incandescent process  
 NT2 westinghouse gasification process  
 NT2 woodall-duckham process  
 NT1 fluidized bed refuse gasification  
 NT1 in-situ gasification  
 RT coal

**GASKETS**

1997-06-19  
 UF *o-rings*  
 BT1 seals  
 RT weatherstripping

**GASOHOL**

INIS: 1992-04-13; ETDE: 1979-08-07  
*Blend of gasoline and alcohol, usually methanol or ethanol.*  
 \*BT1 liquid fuels  
 RT alcohol fuels  
 RT alcohols  
 RT automotive fuels  
 RT ethanol fuels  
 RT gasoline  
 RT methanol fuels

**GASOHOL PROGRAM**

INIS: 2000-04-12; ETDE: 1976-09-15  
*Program for blending agriculturally derived ethanol and unleaded gasoline.*  
 RT ethanol  
 RT gasoline  
 RT synthetic fuels

**GASOLINE**

SF *aircraft fuels*  
 SF *aviation fuels*  
 \*BT1 liquid fuels  
 BT1 petroleum products  
 NT1 unleaded gasoline  
 RT automotive fuels  
 RT bromine number  
 RT gasohol  
 RT gasohol program  
 RT gasoline service stations  
 RT mobil m-gasoline process  
 RT spark ignition engines

**gasoline engines**

1994-09-09  
 USE internal combustion engines

**GASOLINE PLANTS**

INIS: 2000-04-12; ETDE: 1979-02-27  
 \*BT1 chemical plants  
 RT coal gasification  
 RT commercialization  
 RT methanol plants  
 RT mobil m-gasoline process

**GASOLINE SERVICE STATIONS**

INIS: 2000-04-12; ETDE: 1979-05-09  
 UF *filling stations*  
 UF *full-serve stations*  
 UF *gas stations*  
 UF *mini-serve stations*  
 UF *self-serve stations*  
 UF *service stations*  
 \*BT1 retailers  
 RT automotive fuels  
 RT gasoline  
 RT small businesses  
 RT unleaded gasoline

**gasoline spills**

INIS: 1992-04-09; ETDE: 2002-06-13  
 USE hazardous materials spills

**gasteropods**

USE molluscs

**GASTRECTOMY**

\*BT1 surgery  
 RT digestive system diseases  
 RT stomach

**GASTRIC ACID**

\*BT1 body fluids  
 RT digestion  
 RT gastrin

RT secretion  
RT stomach

**gastric administration**

USE oral administration

**GASTRIN**

\*BT1 peptide hormones  
\*BT1 polypeptides  
RT gastric acid  
RT secretion  
RT stomach

**GASTROINTESTINAL TRACT**

1996-11-13

BT1 digestive system  
NT1 intestines  
NT2 large intestine  
NT3 rectum  
NT2 small intestine  
NT1 stomach  
RT abdomen  
RT metabolic diseases  
RT peritoneum  
RT radiation syndrome  
RT trichinosis

**GASTUNITE**

2000-04-12

\*BT1 uranium minerals

**gasynthan process**

INIS: 2000-04-12; ETDE: 1976-01-23

Process for production of synthetic natural gas with calorific value up to 1000 btu/scf, at pressures between 300 and 500 psig, from natural gas condensates, propane - butane, refinery gases, light and full range naphtha. (Prior to January 1995, this was a valid ETDE descriptor.)

USE sng processes

**GATING CIRCUITS**

BT1 electronic circuits  
RT logic circuits  
RT switching circuits

**GAUGE INVARIANCE**

UF gauge transformations  
BT1 invariance principles  
RT aharonov-bohm effect  
RT baryon number  
RT charge conservation  
RT hypercharge  
RT instantons  
RT lattice field theory  
RT lepton number  
RT operator product expansion  
RT quantum chromodynamics  
RT quantum field theory  
RT strangeness  
RT supergravity  
RT unified gauge models  
RT ward identity

**gauge transformations**

USE gauge invariance

**gauss distribution**

USE gauss function

**GAUSS FUNCTION**

UF gauss distribution  
BT1 functions  
RT distribution  
RT gaussian processes  
RT statistics

**gauss nuclear model**

USE gauss potential

**GAUSS POTENTIAL**

UF gauss nuclear model  
\*BT1 nucleon-nucleon potential

**gauss quadratures**

USE quadratures

**GAUSSIAN PROCESSES**

RT distribution  
RT gauss function  
RT stochastic processes

**gcep**

1987-04-28

USE portsmouth centrifuge enrichment plant

**GCFR REACTOR**

Gulf General Atomic, San Diego, California, USA.

UF gas cooled fast breeder reactor  
UF gulf general atomic fast breeder reactor  
\*BT1 gcf type reactors  
\*BT1 helium cooled reactors

**GCFR TYPE REACTORS**

1977-06-17

UF gas cooled fast breeder reactors  
\*BT1 fbr type reactors  
\*BT1 gas cooled reactors  
NT1 gcf reactor

**GCR TYPE REACTORS**

UF gas cooled graphite moderated reactors

\*BT1 gas cooled reactors  
\*BT1 graphite moderated reactors  
NT1 agr type reactors  
NT2 connah quay-b reactor  
NT2 dungeness-b reactor  
NT2 hartlepool reactor  
NT2 heysham-a reactor  
NT2 heysham-b reactor  
NT2 hinkley point-b reactor  
NT2 hunterston-b reactor  
NT2 torness reactor  
NT2 wagr reactor  
NT1 bugey-1 reactor  
NT1 chinon-1 reactor  
NT1 chinon-2 reactor  
NT1 chinon-3 reactor  
NT1 g-1 reactor  
NT1 g-2 reactor  
NT1 g-3 reactor  
NT1 magnox type reactors  
NT2 berkeley reactor  
NT2 bradwell reactor  
NT2 calder hall a-1 reactor  
NT2 calder hall a-2 reactor  
NT2 calder hall b-3 reactor  
NT2 calder hall b-4 reactor  
NT2 chapelcross-1 reactor  
NT2 chapelcross-2 reactor  
NT2 chapelcross-3 reactor  
NT2 chapelcross-4 reactor  
NT2 dungeness-a reactor  
NT2 hinkley point-a reactor  
NT2 hunterston-a reactor  
NT2 latina reactor  
NT2 oldbury-a reactor  
NT2 sizewell-a reactor  
NT2 tokai-mura reactor  
NT2 trawsfynydd reactor  
NT2 wylfa reactor  
NT1 saint laurent-1 reactor  
NT1 saint laurent-2 reactor  
NT1 vandello reactor  
RT carbon dioxide cooled reactors  
RT power reactors

**GCRE REACTOR**

2000-04-12

INEEL, Idaho Falls, Idaho, USA. Shut down in 1961.

UF gas cooled reactor experiment  
\*BT1 experimental reactors  
\*BT1 helium cooled reactors  
\*BT1 power reactors  
\*BT1 water moderated reactors

**GDL FACILITY**

INIS: 1986-05-26; ETDE: 1986-02-03

Nd glass laser facility at University of Rochester.

UF glass development laser facility  
RT laser fusion reactors  
RT neodymium lasers  
RT omega facility

**GE 2541**

INIS: 2000-04-12; ETDE: 1980-11-25

\*BT1 aluminium alloys  
\*BT1 chromium alloys  
\*BT1 iron base alloys  
\*BT1 yttrium alloys

**ge computers**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE computers

**ge detectors (high-purity)**

INIS: 1975-12-09; ETDE: 2002-06-13

USE high-purity ge detectors

**ge process**

INIS: 2000-04-12; ETDE: 1982-07-27

In the process pyritic and organic sulfur is removed from coal by leaching with caustic solution, producing sulfides and polysulfides. The leaching is performed in two stages under microwave irradiation lasting 30 seconds or less per stage.

(Prior to January 1995, this was a valid ETDE descriptor.)

USE desulfurization

**GE SEMICONDUCTOR DETECTORS**

UF germanium detectors  
\*BT1 semiconductor detectors  
NT1 high-purity ge detectors  
NT1 li-drifted ge detectors

**GE STANDARD REACTOR**

1975-09-26

USA.

(Prior to 1975, BWR/6 TYPE REACTORS was used.)

UF bwr/6 type reactors  
UF general electric standard reactor  
\*BT1 bwr type reactors  
RT black fox-1 reactor  
RT black fox-2 reactor  
RT hartsville-1 reactor  
RT hartsville-2 reactor  
RT hartsville-3 reactor  
RT hartsville-4 reactor  
RT phipps bend-1 reactor  
RT phipps bend-2 reactor  
RT skagit-1 reactor  
RT skagit-2 reactor

**ge(li) detectors**

USE li-drifted ge detectors

**GEARS**

INIS: 1980-11-28; ETDE: 1976-09-28

BT1 machine parts  
RT lubricants  
RT lubrication  
RT mechanical efficiency

RT mechanical transmissions  
 RT rolling friction  
 RT wear  
 RT wear resistance  
 RT wheels

**GEESE**

INIS: 2000-04-12; ETDE: 1979-05-02  
 \*BT1 fowl

**geesthacht-1 research reactor**

USE frg-1 reactor

**geesthacht-2 research reactor**

USE frg-2 reactor

**GEGAS PROCESS**

INIS: 2000-04-12; ETDE: 1976-02-19  
*An integrated coal gasification--gas-cleaning process optimized for the production of clean low btu gas.*  
 \*BT1 coal gasification  
 RT low btu gas

**gegenschein**

USE zodiacal light

**GEIGER-MUELLER COUNTERS**

\*BT1 radiation detectors  
 RT avalanche quenching  
 RT flow counters

**GEIGER-NUTTALL LAW**

INIS: 1986-08-19; ETDE: 1986-09-05  
 RT alpha decay  
 RT alpha particles  
 RT half-life  
 RT mean free path

**GEKKO FACILITY**

INIS: 1985-09-09; ETDE: 1985-10-11  
*Nd glass laser facility at Osaka University for laser fusion experiments.*  
 RT laser fusion reactors  
 RT neodymium lasers

**GEL PERMEATION CHROMATOGRAPHY**

INIS: 1984-04-04; ETDE: 1983-05-21  
 \*BT1 chromatography

**GELATIN**

\*BT1 colloids  
 \*BT1 proteins

**GELATION**

RT colloids  
 RT sol-gel process

**GELL-MANN THEORY**

RT quantum numbers  
 RT strangeness

**GELS**

\*BT1 colloids  
 NT1 hydrogels  
 NT1 hydrophilic polymers  
 RT plugging agents  
 RT thixotropy

**gemeinschaftskernkraftwerk neckar**

USE neckar-1 reactor

**gene activators**

INIS: 1985-11-19; ETDE: 2002-06-13  
 USE gene regulation

**GENE AMPLIFICATION**

INIS: 1993-08-26; ETDE: 1986-01-24  
*An increase in the number of copies of a gene in the genome so that a protein product is produced at elevated levels.*  
 NT1 polymerase chain reaction  
 RT cell differentiation

RT genetic engineering  
 RT immunoglobulins  
 RT recombinant dna

**gene loci**

USE genes

**GENE MUTATIONS**

UF point mutations  
 BT1 mutations  
 RT gene recombination  
 RT gene therapy  
 RT genes  
 RT genetic engineering  
 RT polymerase chain reaction  
 RT recombinant dna

**GENE OPERONS**

INIS: 1985-11-19; ETDE: 1984-06-29  
*Small segments of chromosomes which govern transcription of the DNA by controlling access to the gene.*  
 RT chromosomes  
 RT codons  
 RT dna  
 RT gene regulation  
 RT genes  
 RT rna

**gene promoters**

INIS: 1985-11-19; ETDE: 1984-06-29  
 USE gene repressors

**GENE RECOMBINATION**

UF recombination (genetic)  
 RT crossing-over  
 RT dna mismatch  
 RT gene mutations  
 RT gene recombination proteins  
 RT genes  
 RT genetic variability  
 RT recombinant dna

**GENE RECOMBINATION PROTEINS**

INIS: 2000-04-12; ETDE: 1987-07-22  
*A group of enzymes which mediate gene recombination and crossing-over during meiosis but also are involved in repair of DNA.*  
 \*BT1 enzymes  
 RT crossing-over  
 RT dna repair  
 RT endonucleases  
 RT gene recombination  
 RT meiosis  
 RT nucleoproteins

**GENE REGULATION**

INIS: 1995-06-09; ETDE: 1985-11-19  
*The complex series of biochemical events serving to control the expression of a gene or gene family.*  
 UF gene activators  
 NT1 enzyme induction  
 RT biosynthesis  
 RT chromosomes  
 RT codons  
 RT exons  
 RT gene operons  
 RT gene repressors  
 RT genes  
 RT genetic engineering  
 RT human chromosomes  
 RT introns  
 RT microarray technology  
 RT splicing  
 RT transcription  
 RT transcription factors

**GENE REPRESSORS**

INIS: 1991-10-22; ETDE: 1984-06-29  
*A class of proteins which block the transcription of one or more genes by binding to a control segment of the chromosome. Since the gene product encoded cannot be synthesized, the property conferred by the gene is not expressed.*  
 UF gene promoters  
 RT enzyme induction  
 RT gene regulation  
 RT nucleoproteins  
 RT transcription  
 RT transcription factors

**GENE THERAPY**

2003-08-26  
*Technique for correcting defective genes responsible for disease development.*  
 \*BT1 therapy  
 RT gene mutations  
 RT genetic engineering

**general accounting office**

INIS: 2000-01-11; ETDE: 1979-02-23  
 USE us gao

**general atomic fuel fabrication facility**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE fuel fabrication plants

**general atomic standard reactor**

1993-11-08  
 USE ga standard reactor

**GENERAL CIRCULATION MODELS**

INIS: 1991-07-02; ETDE: 1986-06-12  
 BT1 mathematical models  
 RT atmospheric circulation  
 RT climate models  
 RT fluid mechanics  
 RT meteorology  
 RT oceanic circulation  
 RT three-dimensional calculations

**general electric nuclear test reactor**

1993-11-08  
 USE ntr reactor

**general electric standard reactor**

2000-01-11  
 USE ge standard reactor

**general electric test reactor**

2000-01-11  
 USE getr reactor

**general law**

INIS: 1990-12-15; ETDE: 2002-06-13  
 (Prior to December 1990, this was a valid descriptor.)  
 USE laws

**general quantum field theory**

INIS: 1977-11-21; ETDE: 1978-03-08  
 USE axiomatic field theory

**GENERAL RELATIVITY THEORY**

2000-01-11  
 UF einstein gravitation theory  
 BT1 field theories  
 BT1 relativity theory  
 RT cosmological constant  
 RT cosmological models  
 RT cosmology  
 RT einstein effect  
 RT einstein field equations  
 RT einstein-maxwell equations  
 RT energy-momentum tensor

RT equivalence principle  
 RT gravitation  
 RT gravitational fields  
 RT gravitational lenses  
 RT gravitational radiation  
 RT kaluza-klein theory  
 RT m-theory  
 RT mach principle  
 RT nonluminous matter  
 RT quantum gravity  
 RT schwarzschild metric

**generating capacity**

INIS: 1982-12-03; ETDE: 1977-06-02

USE capacity

**GENERATOR-COORDINATE METHOD**

BT1 calculation methods  
 RT boson expansion  
 RT nuclear structure  
 RT pairing interactions  
 RT quantum mechanics

**generators (aerosol)**

USE aerosol generators

**generators (electric)**

USE electric generators

**generators (pulse)**

USE pulse generators

**generators (radioisotope)**

USE radioisotope generators

**generators (steam)**

USE steam generators

**generators (vapor)**

USE vapor generators

**GENES**

1996-05-03

UF cistrons  
 UF gene loci  
 NT1 lethal genes  
 NT1 oncogenes  
 NT1 replicons  
 RT chromosomes  
 RT codons  
 RT exons  
 RT gene mutations  
 RT gene operons  
 RT gene recombination  
 RT gene regulation  
 RT genetic effects  
 RT genetic engineering  
 RT genetic mapping  
 RT genotype  
 RT human chromosomes  
 RT in-situ hybridization  
 RT introns  
 RT plasmids  
 RT rflps  
 RT transcription  
 RT transposons

**genesis**

INIS: 2000-01-11; ETDE: 1980-07-23

USE origin

**GENETIC CONTROL**

\*BT1 pest control  
 RT chromosomal aberrations  
 RT insects  
 RT mutagenesis  
 RT mutations  
 RT sterility

**GENETIC EFFECTS**

BT1 biological effects

NT1 genetic radiation effects  
 RT chromosomes  
 RT congenital malformations  
 RT genes  
 RT genetics  
 RT gonads  
 RT human chromosomes  
 RT mosaicism  
 RT mutations  
 RT radiation equivalence  
 RT sister chromatid exchanges  
 RT teratogens

**GENETIC ENGINEERING**

INIS: 1984-12-04; ETDE: 1981-07-18

BT1 biotechnology  
 NT1 nucleic acid hybridization  
 NT2 dna hybridization  
 NT3 dna-cloning  
 NT2 in-situ hybridization  
 RT cell differentiation  
 RT dna  
 RT gene amplification  
 RT gene mutations  
 RT gene regulation  
 RT gene therapy  
 RT genes  
 RT genetic radiation effects  
 RT hybridization  
 RT molecular biology  
 RT polymerase chain reaction  
 RT protein engineering  
 RT transposons

**GENETIC MAPPING**

INIS: 1997-06-17; ETDE: 1976-08-24

*The graphical representation of the linear arrangement of genes on a chromosome.*

BT1 mapping  
 RT banding techniques  
 RT chromosomes  
 RT contigs  
 RT dna hybridization  
 RT genes  
 RT human chromosomes  
 RT in-situ hybridization  
 RT microarray technology  
 RT rflps

**GENETIC RADIATION EFFECTS**

\*BT1 biological radiation effects  
 \*BT1 genetic effects  
 RT chromosome losses  
 RT delayed radiation effects  
 RT genetic engineering  
 RT genetically significant dose  
 RT sister chromatid exchanges

**GENETIC VARIABILITY**

2000-01-11

UF variability (genetic)  
 BT1 biological variability  
 RT ecological balance  
 RT gene recombination  
 RT rflps  
 RT transposons

**GENETICALLY SIGNIFICANT DOSE**

UF gsd  
 \*BT1 radiation doses  
 RT dose-response relationships  
 RT genetic radiation effects  
 RT populations  
 RT radiation hazards

**GENETICS**

UF heredity  
 BT1 biology  
 RT animal breeding  
 RT biological evolution  
 RT cytology

RT genetic effects  
 RT hereditary diseases  
 RT hybridization  
 RT nucleic acids  
 RT plasmids

**genitals (female)**

USE female genitals

**genitals (male)**

USE male genitals

**GENKAI-1 REACTOR**

*Kyushu Electric Power Co., Genkai, Saga, Japan.*

UF kyushu-1 reactor

\*BT1 pwr type reactors

**GENKAI-2 REACTOR**

INIS: 1979-09-18; ETDE: 1978-08-07

*Kyushu Electric Power Co., Genkai, Saga, Japan.*

UF kyushu-2 reactor

\*BT1 pwr type reactors

**GENKAI-3 REACTOR**

INIS: 1985-06-07; ETDE: 1985-07-18

*Kyushu Electric Power Co., Genkai, Saga, Japan.*

\*BT1 pwr type reactors

**GENKAI-4 REACTOR**

INIS: 1985-06-07; ETDE: 1985-07-18

*Kyushu Electric Power Co., Genkai, Saga, Japan.*

UF kyushu-4 reactor

\*BT1 pwr type reactors

**GENOME MUTATIONS**

BT1 mutations  
 RT aneuploidy  
 RT karyotype  
 RT non-disjunction  
 RT ploidy  
 RT polyploidy

**GENOTYPE**

RT genes  
 RT mutagenesis  
 RT ontogenesis  
 RT phenotype

**gentilly-1 reactor**

ETDE: 2002-06-13

USE gentilly reactor

**GENTILLY-2 REACTOR**

*Nicolet, Quebec, Canada.*

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

**GENTILLY REACTOR**

*Nicolet, Quebec, Canada.*

UF gentilly-1 reactor

\*BT1 candu type reactors

\*BT1 hwlwr type reactors

\*BT1 natural uranium reactors

**GEOBAROMETRY**

INIS: 2000-01-20; ETDE: 1977-12-22

*Any method for the direct or indirect determination of the pressure conditions under which a rock or mineral was formed.*

RT minerals  
 RT pressure measurement  
 RT rocks

**GEOBOTANY**

\*BT1 botany  
 RT biogeochemistry  
 RT biological evolution

**GEOCHEMICAL SURVEYS**

- SF* surveys  
 BT1 geologic surveys  
*RT* exploration  
*RT* geochemistry  
*RT* geology  
*RT* geothermal exploration  
*RT* ground truth measurements  
*RT* marine surveys  
*RT* prospecting  
*RT* seeps

**GEOCHEMISTRY**

1999-05-04

- BT1 chemistry  
 NT1 biogeochemistry  
*RT* acid neutralizing capacity  
*RT* coalification  
*RT* geochemical surveys  
*RT* geology  
*RT* geothermometry  
*RT* natural occurrence  
*RT* organic matter  
*RT* site characterization

**geochronology**

- USE age estimation

**GEOCORONA**

- RT* earth atmosphere  
*RT* interplanetary space  
*RT* solar wind

**GEODESICS**

*Lines along which the distance between two points reaches an extremum.*

- RT* mathematical space

**GEODESY**

- RT* mathematics

**GEODETTIC SURVEYS**

*INIS: 2000-01-20; ETDE: 1978-07-05*

*A survey of a large land area used for the precise location of basic points.*

- \*BT1 geophysical surveys  
*RT* earthquakes  
*RT* ground uplift

**GEOGRAPHIC INFORMATION SYSTEMS**

2003-05-30

- UF* *gis*  
 BT1 information systems  
*RT* baseline ecology  
*RT* data base management  
*RT* geography  
*RT* geologic surveys  
*RT* site characterization

**GEOGRAPHICAL VARIATIONS**

*INIS: 1999-07-16; ETDE: 1977-10-19*

- BT1 variations  
 NT1 latitude effect  
*RT* east-west asymmetry  
*RT* north-south asymmetry

**GEOGRAPHY**

- RT* earth planet  
*RT* geographic information systems  
*RT* oceanography  
*RT* site characterization

**geoisotherms**

*INIS: 1983-02-03; ETDE: 1976-08-25*

- USE isotherms

**GEOLOGIC AGES**

*INIS: 1992-04-14; ETDE: 1977-10-19*

- NT1 cenozoic era  
 NT2 quaternary period  
 NT3 pleistocene epoch

- NT2 tertiary period  
 NT3 eocene epoch  
 NT3 miocene epoch  
 NT3 pliocene epoch  
 NT1 mesozoic era  
 NT2 cretaceous period  
 NT2 jurassic period  
 NT2 triassic period  
 NT1 paleozoic era  
 NT2 cambrian period  
 NT2 carboniferous period  
 NT2 devonian period  
 NT2 ordovician period  
 NT2 permian period  
 NT2 silurian period  
 NT1 precambrian era  
*RT* age estimation  
*RT* geologic history  
*RT* paleomagnetism

**GEOLOGIC DEPOSITS**

(From August 1981 till March 1997 PARAGENESIS was a valid ETDE descriptor.)

- UF* deposits (geological)  
*SF* paragenesis  
 NT1 alluvial deposits  
 NT1 coal deposits  
 NT2 coal seams  
 NT1 concretions  
 NT1 moraines  
 NT1 natural gas deposits  
 NT2 natural gas fields  
 NT3 gas condensate fields  
 NT1 natural gas hydrate deposits  
 NT1 oil sand deposits  
 NT2 asphalt ridge deposit  
 NT2 athabasca deposit  
 NT2 circle cliffs deposit  
 NT2 cold lake deposit  
 NT2 edna deposit  
 NT2 lloydminster deposit  
 NT2 peace river deposit  
 NT2 pr springs deposit  
 NT2 santa rosa deposit  
 NT2 sunnyside deposit  
 NT2 tar sand triangle deposit  
 NT2 uvalde deposit  
 NT2 wabasca deposit  
 NT1 oil shale deposits  
 NT2 us naval oil shale reserves  
 NT1 petroleum deposits  
 NT2 gas condensate fields  
 NT2 oil fields  
 NT2 us naval petroleum reserves  
 NT1 placers  
 NT1 salt deposits  
 NT1 thorium deposits  
 NT1 uranium deposits  
 NT2 blizzard deposit  
 NT2 erzgebirge deposit  
 NT2 jabiluka deposit  
 NT2 koongarra deposit  
 NT2 nabarlek deposit  
 NT2 ranger deposit  
 NT2 ranstad deposit  
 NT2 roxby downs deposit  
 NT2 south alligator deposit  
 NT2 yeelirrie deposit  
*RT* availability  
*RT* inclined strata  
*RT* ores  
*RT* sediments  
*RT* underground storage  
*RT* working faces

**geologic engineering**

*INIS: 2000-04-12; ETDE: 1977-03-08*  
 USE engineering geology

**GEOLOGIC FAULTS**

*Fractures in rock along which the adjacent rock surfaces are differentially displaced.*

- UF* faults (geologic)  
 \*BT1 geologic fractures  
*RT* earthquakes  
*RT* geologic fissures  
*RT* geology  
*RT* geomorphology  
*RT* rift zones  
*RT* seismology

**GEOLOGIC FISSURES**

1985-12-10

- UF* geologic joints  
 BT1 geologic structures  
*RT* caves  
*RT* cracks  
*RT* fractured reservoirs  
*RT* fractures  
*RT* geologic faults  
*RT* geologic fractures  
*RT* geology

**GEOLOGIC FORMATIONS**

*INIS: 1996-01-25; ETDE: 1978-07-05*

- UF* boom clay formation  
 NT1 chattanooga formation  
 NT1 green river formation  
 NT2 mahogany zone  
 NT2 uinta formation  
 NT1 wasatch formation  
*RT* boom clay  
*RT* formation damage  
*RT* geologic structures  
*RT* natural analogue  
*RT* reservoir pressure

**GEOLOGIC FRACTURES**

*INIS: 1985-12-10; ETDE: 1984-08-06*

*Breaks in rock, whether or not there is displacement, due to mechanical failure by stress.*

- BT1 geologic structures  
 NT1 geologic faults  
*RT* cracks  
*RT* fractures  
*RT* geologic fissures

**GEOLOGIC HISTORY**

*INIS: 1985-12-10; ETDE: 1978-08-07*

- RT* eocene epoch  
*RT* geologic ages  
*RT* geologic models  
*RT* geologic structures  
*RT* geology  
*RT* miocene epoch  
*RT* pleistocene epoch  
*RT* pliocene epoch

**geologic joints**

*INIS: 2000-01-20; ETDE: 1984-08-06*

- USE geologic fissures

**GEOLOGIC MODELS**

*INIS: 1985-12-10; ETDE: 1978-02-14*

- RT* geologic history  
*RT* geologic structures

**geologic natural analogue**

*INIS: 1993-09-17; ETDE: 1993-11-08*

- USE natural analogue

**geologic provinces**

*INIS: 2000-04-12; ETDE: 1981-08-04*

- SEE snake river plain

**GEOLOGIC STRATA**

1975-12-09

- BT1 geologic structures  
 NT1 basement rock

**NT1** inclined strata  
*RT* chattanooga formation  
*RT* coal seams  
*RT* rocks  
*RT* strata movement  
*RT* stratification  
*RT* stratigraphy

**GEOLOGIC STRUCTURES**

1975-11-07

(From December 1980 till February 1997  
 DIKES was a valid ETDE descriptor; from  
 December 1984 till March 1997  
 LINEAMENTS was a valid ETDE descriptor.)

*UF* dikes  
*UF* lineaments  
**NT1** anticlines  
**NT1** fractured reservoirs  
**NT1** geologic fissures  
**NT1** geologic fractures  
   **NT2** geologic faults  
**NT1** geologic strata  
   **NT2** basement rock  
   **NT2** inclined strata  
**NT1** reefs  
**NT1** rift zones  
**NT1** sedimentary basins  
   **NT2** appalachian basin  
   **NT3** chattanooga formation  
   **NT2** williston basin  
*RT* geologic formations  
*RT* geologic history  
*RT* geologic models  
*RT* geology  
*RT* mid-atlantic ridge  
*RT* natural analogue  
*RT* seismic surveys  
*RT* seismology  
*RT* stratigraphy  
*RT* water influx

**GEOLOGIC SURVEYS**

INIS: 1975-11-07; ETDE: 1977-01-31

*UF* geological surveys  
*SF* surveys  
**NT1** geochemical surveys  
**NT1** geophysical surveys  
   **NT2** electrical surveys  
     **NT3** electromagnetic surveys  
     **NT4** magnetotelluric surveys  
   **NT3** resistivity surveys  
   **NT3** self-potential surveys  
   **NT3** telluric surveys  
   **NT2** geodetic surveys  
   **NT2** gravity surveys  
   **NT2** infrared surveys  
   **NT2** magnetic surveys  
   **NT2** radiometric surveys  
   **NT2** seismic surveys  
   **NT2** temperature surveys  
*RT* exploration  
*RT* geographic information systems  
*RT* geos satellites  
*RT* geothermal exploration  
*RT* goes satellites  
*RT* kriging  
*RT* prospecting  
*RT* site characterization

**geologic thermometry**

INIS: 2000-04-12; ETDE: 1976-03-31

USE geothermometry

**GEOLOGIC TRAPS**

INIS: 2000-01-21; ETDE: 1978-01-23

Configurations of rocks able to confine fluids  
 that float on other fluids.

*RT* natural gas deposits  
*RT* petroleum deposits

**geological surveys**

2000-01-21

USE geologic surveys

**GEOLOGY**

1996-07-18

**NT1** engineering geology  
**NT1** geomorphology  
**NT1** petrography  
**NT1** petroleum geology  
**NT1** petrology  
   **NT2** lithology  
   **NT2** petrogenesis  
**NT1** stratigraphy  
*RT* earth crust  
*RT* earth planet  
*RT* geochemical surveys  
*RT* geochemistry  
*RT* geologic faults  
*RT* geologic fissures  
*RT* geologic history  
*RT* geologic structures  
*RT* geophysical surveys  
*RT* geophysics  
*RT* geothermal energy  
*RT* metamorphism  
*RT* regional analysis  
*RT* rock mechanics  
*RT* site characterization  
*RT* volcanoes

**GEOMAGNETIC CONJUGACY**

*UF* conjugate points  
*RT* geomagnetic field

**GEOMAGNETIC COORDINATES**

**BT1** coordinates  
*RT* geomagnetic field

**geomagnetic cut-off rigidity**

USE threshold rigidity

**GEOMAGNETIC EQUATOR**

*RT* equator  
*RT* geomagnetic field

**GEOMAGNETIC FIELD**

**BT1** magnetic fields  
*RT* earth magnetosphere  
*RT* geomagnetic conjugacy  
*RT* geomagnetic coordinates  
*RT* geomagnetic equator  
*RT* geophysics  
*RT* inclination  
*RT* international magnetospheric study  
*RT* magnetosheath  
*RT* magnetotail  
*RT* paleomagnetism  
*RT* threshold rigidity

**geomagnetic storms**

USE magnetic storms

**GEOMETRIC BUCKLING**

A form of neutron density distribution in  
 reactors. For buckling of materials, see  
 DEFORMATION or FAILURES.

**BT1** buckling**geometric sensitivity**

INIS: 2000-04-12; ETDE: 1979-08-07

USE space dependence

**GEOMETRICAL ABERRATIONS**

*UF* cylindrical aberrations  
*UF* spherical aberrations  
*RT* beam optics  
*RT* optical properties

**GEOMETRY**

**BT1** mathematics  
**NT1** differential geometry

**NT1** lobachevsky geometry  
*RT* configuration  
*RT* cusped geometries  
*RT* invariant imbedding  
*RT* mapping  
*RT* prisms  
*RT* spheres  
*RT* spheroids

**GEOMORPHOLOGY**

1997-06-19

A science that deals with the land and  
 submarine relief features of the earth's surface  
 and seeks a genetic interpretation of them  
 through using the principles of physiography  
 in its descriptive aspects and of dynamic and  
 structural geology in its explanatory phases.

*UF* landforms  
**BT1** geology  
*RT* earth crust  
*RT* geologic faults  
*RT* geophysics  
*RT* regional analysis  
*RT* sea bed  
*RT* site characterization  
*RT* stratigraphy

**geophones**

INIS: 2000-01-21; ETDE: 1976-09-15

USE seismic detectors

**GEOPHYSICAL SURVEYS**

1996-04-18

Surveys using one or more geophysical  
 techniques in geophysical exploration, such as  
 electrical, infrared, heat flow, magnetic,  
 radioactivity, and seismic techniques.

*SF* surveys  
**BT1** geologic surveys  
**NT1** electrical surveys  
   **NT2** electromagnetic surveys  
   **NT3** magnetotelluric surveys  
   **NT2** resistivity surveys  
   **NT2** self-potential surveys  
   **NT2** telluric surveys  
**NT1** geodetic surveys  
**NT1** gravity surveys  
**NT1** infrared surveys  
**NT1** magnetic surveys  
**NT1** radiometric surveys  
**NT1** seismic surveys  
**NT1** temperature surveys  
*RT* aerial monitoring  
*RT* coal deposits  
*RT* exploration  
*RT* geology  
*RT* geophysics  
*RT* geothermal exploration  
*RT* ground truth measurements  
*RT* marine surveys  
*RT* natural gas deposits  
*RT* oil shale deposits  
*RT* petroleum deposits  
*RT* prospecting  
*RT* remote sensing  
*RT* uranium deposits  
*RT* well logging

**GEOPHYSICS**

2000-01-24

**BT1** physics  
*RT* bathymetry  
*RT* earth planet  
*RT* geology  
*RT* geomagnetic field  
*RT* geomorphology  
*RT* geophysical surveys  
*RT* international geophysical year



**GEOPRESSURE ANOMALIES**

INIS: 2000-04-12; ETDE: 1979-01-30

RT geopressured systems

**GEOPRESSURED SYSTEMS**

1992-07-10

*Underground reservoirs in which the pressure exceeds normal hydrostatic pressure.*

BT1 energy systems  
 RT geopressure anomalies  
 RT geothermal systems  
 RT natural gas deposits  
 RT reservoir pressure

**GEORGES BANK**

INIS: 1992-06-09; ETDE: 1978-12-11

*Submerged sandbank east of Massachusetts.*

RT atlantic ocean  
 RT mid-atlantic bight

**GEORGIA**

1997-06-17

\*BT1 usa

NT1 atlanta  
 RT altamaha river  
 RT chattahoochee river  
 RT chattanooga formation  
 RT savannah river  
 RT us east coast

**georgia (republic of)**

INIS: 1993-02-01; ETDE: 1993-04-08

USE republic of georgia

**georgia tech. research reactor**

USE gtrr reactor

**GEOS SATELLITES**

BT1 satellites  
 RT geologic surveys  
 RT remote sensing

**geostationary operational environmental satellite**

INIS: 2000-01-24; ETDE: 1980-04-14

USE goes satellites

**geostatistics**

INIS: 2000-03-27; ETDE: 1993-07-07

SEE kriging

**GEOTHERMAL AIR****CONDITIONING**

INIS: 2000-04-12; ETDE: 1979-01-30

BT1 air conditioning  
 RT geothermal refrigeration

**geothermal areas**

1990-12-15

USE geothermal fields

**GEOTHERMAL DISTRICT HEATING**

INIS: 1993-01-26; ETDE: 1977-08-24

\*BT1 district heating  
 \*BT1 geothermal heating  
 RT geothermal space heating

**GEOTHERMAL ENERGY**

BT1 energy  
 \*BT1 renewable energy sources  
 RT earth crust  
 RT geology  
 RT geothermal fields  
 RT geothermal heating  
 RT geothermal industry  
 RT geothermal power plants  
 RT thermal springs  
 RT volcanoes

**GEOTHERMAL ENERGY CONVERSION**

1992-08-19

\*BT1 energy conversion  
 RT binary-fluid systems  
 RT flashed steam systems  
 RT total flow systems

**GEOTHERMAL EXPLORATION**

1996-04-18

*Exploration for sources of geothermal energy.*

BT1 exploration  
 RT electrical surveys  
 RT electromagnetic surveys  
 RT exploratory wells  
 RT geochemical surveys  
 RT geologic surveys  
 RT geophysical surveys  
 RT gravity surveys  
 RT infrared surveys  
 RT magnetic surveys  
 RT seismic surveys  
 RT telluric surveys  
 RT temperature surveys  
 RT well logging equipment

**GEOTHERMAL FIELDS**

1997-06-19

UF geothermal areas  
 UF geothermal regions  
 NT1 ahuachapan geothermal field  
 NT1 baca geothermal field  
 NT1 beppu geothermal field  
 NT1 brawley geothermal field  
 NT1 broadlands geothermal field  
 NT1 cerro prieto geothermal field  
 NT1 dieng geothermal field  
 NT1 east mesa geothermal field  
 NT1 el tatio geothermal field  
 NT1 geysers geothermal field  
 NT1 hatchobaru geothermal field  
 NT1 heber geothermal field  
 NT1 kakkonda geothermal field  
 NT1 kamojang geothermal field  
 NT1 kawerau geothermal field  
 NT1 kizildere geothermal field  
 NT1 krafla geothermal field  
 NT1 larderello geothermal field  
 NT1 matsukawa geothermal field  
 NT1 momotombo geothermal field  
 NT1 monte amiata geothermal field  
 NT1 namafjall geothermal field  
 NT1 onikobe geothermal field  
 NT1 onuma geothermal field  
 NT1 otake geothermal field  
 NT1 palimpinon geothermal field  
 NT1 paratunka geothermal field  
 NT1 pathe geothermal field  
 NT1 pauzhetsk geothermal field  
 NT1 salton sea geothermal field  
 NT1 soultz-sous-forets geothermal field  
 NT1 takenoyu geothermal field  
 NT1 takinoue geothermal field  
 NT1 tiwi geothermal field  
 NT1 tongonan geothermal field  
 NT1 travale geothermal field  
 NT1 urach geothermal field  
 NT1 waiotapu geothermal field  
 NT1 wairakei geothermal field  
 RT geothermal energy  
 RT geothermal systems  
 RT imperial valley  
 RT kgra  
 RT klamath falls  
 RT roosevelt hot springs  
 RT salton sea  
 RT thermal springs  
 RT well spacing  
 RT wendell-amedee hot springs

**GEOTHERMAL FLUIDS**

1992-05-12

*Naturally occurring steam or hot water found in the earth's volcanic or young orogenic zones.*

SF thermal waters  
 BT1 fluids  
 NT1 fumarolic fluids  
 NT1 natural steam  
 RT brines  
 RT fluid withdrawal  
 RT hydrothermal systems

**GEOTHERMAL GRADIENTS**

1993-06-07

*The rate of increase of temperature in the earth with depth.*

BT1 temperature gradients

**GEOTHERMAL HEATING**

INIS: 2000-04-12; ETDE: 1975-11-11

BT1 heating  
 NT1 geothermal district heating  
 NT1 geothermal space heating  
 NT1 geothermal water heating  
 RT geothermal energy  
 RT geothermal heating systems  
 RT geothermal process heat

**GEOTHERMAL HEATING SYSTEMS**

INIS: 2000-04-12; ETDE: 1976-04-19

\*BT1 heating systems  
 RT district heating  
 RT geothermal heating

**GEOTHERMAL HOT-WATER SYSTEMS**

INIS: 1997-06-19; ETDE: 1992-08-12

*Hydrothermal convective systems characterized by liquid water as the continuous, pressure-controlling fluid phase.*

UF hot-water systems  
 SF liquid-dominated hydrothermal convective systems  
 \*BT1 hydrothermal systems  
 RT baca geothermal field  
 RT broadlands geothermal field  
 RT cerro prieto geothermal field  
 RT kawerau geothermal field  
 RT otake geothermal field  
 RT pathe geothermal field  
 RT pauzhetsk geothermal field  
 RT wairakei geothermal field

**GEOTHERMAL INDUSTRY**

INIS: 1992-05-12; ETDE: 1977-12-22

BT1 industry  
 RT geothermal energy

**GEOTHERMAL POWER PLANTS**

\*BT1 thermal power plants  
 RT binary-fluid systems  
 RT flashed steam systems  
 RT geothermal energy  
 RT total flow systems

**GEOTHERMAL PROCESS HEAT**

INIS: 2000-04-12; ETDE: 1978-02-15

\*BT1 process heat  
 RT geothermal heating

**GEOTHERMAL REFRIGERATION**

INIS: 2000-04-12; ETDE: 1975-11-26

\*BT1 refrigeration  
 RT geothermal air conditioning

**geothermal regions**

1990-12-15

USE geothermal fields

**GEOHERMAL RESOURCES**

1992-03-30

(Until March 1992, this was indexed by GEOHERMAL ENERGY and RESOURCES.)

BT1 resources  
RT geothermal systems

**GEOHERMAL SPACE HEATING**

INIS: 2000-04-12; ETDE: 1975-10-28

\*BT1 geothermal heating  
\*BT1 space heating  
RT geothermal district heating

**geothermal springs**

INIS: 2000-03-27; ETDE: 1980-08-12

SEE geysers  
SEE hot springs  
SEE thermal springs  
SEE warm springs

**geothermal steam**

2000-04-12

USE natural steam

**GEOHERMAL SYSTEMS**

1992-03-30

Localized regions in which geothermal heat is carried close enough to the earth's surface by steam or hot water to be harnessed for use.

NT1 hot-dry-rock systems  
NT1 hydrothermal systems  
NT2 geothermal hot-water systems  
NT2 vapor-dominated systems  
NT1 magma systems  
RT geopressured systems  
RT geothermal fields  
RT geothermal resources

**GEOHERMAL WATER HEATING**

INIS: 2000-04-12; ETDE: 1980-03-04

Use for domestic water heating; for industrial application use GEOHERMAL PROCESS HEAT.

\*BT1 geothermal heating  
\*BT1 water heating

**GEOHERMAL WELLS**

1992-09-03

BT1 wells  
RT directional drilling  
RT exploratory wells  
RT injection wells  
RT well drilling  
RT well pressure  
RT wellheads

**GEOHERMOMETERS**

2000-05-24

Minerals or mineral assemblages whose composition, structure, or inclusions are fixed within known thermal limits under particular conditions of pressure and composition and whose presence thus denotes a limit or a range for the temperature of formation of the enclosing rock.

\*BT1 thermometers  
RT geothermometry  
RT temperature measurement

**GEOHERMOMETRY**

2000-01-20

Measurement or estimation, by direct or indirect methods, of the maximum, minimum, or actual temperatures at which geological processes occur or have occurred in the past.

UF geologic thermometry  
RT geochemistry  
RT geothermometers  
RT temperature measurement

**geraniol**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE alcohols  
USE terpenes

**GERBILS**

\*BT1 rodents

**gerjuoy-stein theory**

1996-06-28

(Until June 1996 this was a valid descriptor.)

SEE excitation functions

**GERM CELLS**

NT1 gametes  
NT2 ova  
NT2 pollen  
NT2 spermatozoa  
NT1 oocytes  
NT1 oogonia  
NT1 spermatocytes  
NT1 spermatogonia  
RT gametogenesis  
RT gonads

**GERM-FREE ANIMALS**

UF gnothobionts  
BT1 animals  
RT antibody formation  
RT bacteria

**german (mainz) triga-mk-2 reactor**

1993-11-08

USE triga-2-mainz reactor

**german democratic republic**

1991-05-02

(Prior to May 1991, this was a valid descriptor.)

USE federal republic of germany

**german dr organizations**

INIS: 1991-05-02; ETDE: 1977-04-13

(Prior to May 1991, this was a valid descriptor.)

USE german fr organizations

**german federal republic**

1984-07-20

USE federal republic of germany

**GERMAN FR ORGANIZATIONS**

UF german dr organizations  
BT1 national organizations  
NT1 bundesamt fuer strahlenschutz  
NT1 forschungszentrum juelich  
NT1 forschungszentrum karlsruhe  
NT1 gesellschaft fuer anlagen- und reaktorsicherheit  
NT1 ipp garching  
NT1 reaktorsicherheitskommission  
NT1 strahlenschutzkommission  
NT1 wak  
NT1 zfi leipzig  
NT1 zfk rossendorf  
RT federal republic of germany

**german measles**

INIS: 1980-04-02; ETDE: 1980-05-06

USE measles

**german silver**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE copper base alloys  
USE nickel alloys  
USE zinc alloys

**GERMANATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor with the exception of the one NT below.

BT1 germanium compounds  
BT1 oxygen compounds  
NT1 bismuth germanates  
RT germanium oxides

**germanes**

(Prior to December 1984 this was a valid ETDE descriptor.)

USE germanium hydrides

**GERMANIDES**

INIS: 1989-07-19; ETDE: 1989-08-01

BT1 germanium compounds

**GERMANIUM**

\*BT1 metals

**GERMANIUM 58**

2007-01-30

\*BT1 even-even nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei

**GERMANIUM 59**

2007-01-30

\*BT1 even-odd nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei

**GERMANIUM 60**

2007-01-30

\*BT1 even-even nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes

**GERMANIUM 61**

INIS: 1978-01-13; ETDE: 1977-08-24

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes

**GERMANIUM 62**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 even-even nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 proton decay radioisotopes

**GERMANIUM 63**

2007-01-30

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes

**GERMANIUM 64**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes

**GERMANIUM 65**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes

**GERMANIUM 66**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**GERMANIUM 67**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**GERMANIUM 68**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- RT radioisotope generators

**GERMANIUM 69**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei

**GERMANIUM 70**

- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**GERMANIUM 70 REACTIONS**

INIS: 1992-04-16; ETDE: 1992-08-12  
\*BT1 heavy ion reactions

**GERMANIUM 70 TARGET**

ETDE: 1976-07-09  
BT1 targets

**GERMANIUM 71**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes

**GERMANIUM 71 TARGET**

ETDE: 1976-07-09  
BT1 targets

**GERMANIUM 72**

- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**GERMANIUM 72 TARGET**

ETDE: 1976-07-09  
BT1 targets

**GERMANIUM 73**

- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 stable isotopes

**GERMANIUM 73 TARGET**

ETDE: 1976-07-09  
BT1 targets

**GERMANIUM 74**

- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- RT germanium 74 beams
- RT germanium 74 reactions

**GERMANIUM 74 BEAMS**

- \*BT1 ion beams
- RT germanium 74

**GERMANIUM 74 REACTIONS**

1978-11-24  
\*BT1 heavy ion reactions  
RT germanium 74

**GERMANIUM 74 TARGET**

ETDE: 1976-07-09  
BT1 targets

**GERMANIUM 75**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes

**GERMANIUM 75 TARGET**

ETDE: 1976-07-09  
BT1 targets

**GERMANIUM 76**

- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- RT germanium 76 beams

**GERMANIUM 76 BEAMS**

- \*BT1 ion beams
- RT germanium 76

**GERMANIUM 76 REACTIONS**

INIS: 1976-03-02; ETDE: 1976-04-19  
\*BT1 heavy ion reactions

**GERMANIUM 76 TARGET**

ETDE: 1976-07-09  
BT1 targets

**GERMANIUM 77**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes

**GERMANIUM 78**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**GERMANIUM 79**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**GERMANIUM 80**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**GERMANIUM 81**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**GERMANIUM 82**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**GERMANIUM 83**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**GERMANIUM 84**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**GERMANIUM 85**

1991-05-02  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes

**GERMANIUM 86**

2007-01-30  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 nanoseconds living radioisotopes

**GERMANIUM 86 TARGET**

INIS: 1980-07-24; ETDE: 1980-08-12  
BT1 targets

**GERMANIUM 87**

2007-01-30  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes

**GERMANIUM 88**

2007-01-30  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 nanoseconds living radioisotopes

**GERMANIUM 89**

2007-01-30  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 nanoseconds living radioisotopes

**GERMANIUM ADDITIONS**

Alloys containing not more than 1% Ge are listed here.  
\*BT1 germanium alloys

**GERMANIUM ALLOYS**

Alloys containing more than 1% Ge.  
BT1 alloys  
NT1 germanium additions  
NT1 germanium base alloys

**GERMANIUM ARSENIDES***INIS: 1978-02-23; ETDE: 1975-11-11*

- \*BT1 arsenides
- BT1 germanium compounds

**GERMANIUM BASE ALLOYS**

- \*BT1 germanium alloys

**GERMANIUM BORIDES***INIS: 1991-09-16; ETDE: 1978-10-23*

- \*BT1 borides
- BT1 germanium compounds

**GERMANIUM BROMIDES**

- \*BT1 bromides
- BT1 germanium compounds

**GERMANIUM CARBIDES***INIS: 2000-04-12; ETDE: 1977-07-23*

- \*BT1 carbides
- BT1 germanium compounds

**GERMANIUM CHLORIDES**

- \*BT1 chlorides
- BT1 germanium compounds

**GERMANIUM COMPLEXES**

- BT1 complexes

**GERMANIUM COMPOUNDS***1997-06-17*

- NT1 germanates
- NT2 bismuth germanates
- NT1 germanides
- NT1 germanium arsenides
- NT1 germanium borides
- NT1 germanium bromides
- NT1 germanium carbides
- NT1 germanium chlorides
- NT1 germanium fluorides
- NT1 germanium hydrides
- NT1 germanium hydroxides
- NT1 germanium iodides
- NT1 germanium nitrides
- NT1 germanium oxides
- NT1 germanium phosphates
- NT1 germanium phosphides
- NT1 germanium selenides
- NT1 germanium silicates
- NT1 germanium silicides
- NT1 germanium sulfides
- NT1 germanium tellurides

**germanium detectors***INIS: 2000-01-25; ETDE: 1978-12-28*

- USE ge semiconductor detectors

**GERMANIUM DIODES**

- \*BT1 semiconductor diodes

**GERMANIUM FLUORIDES**

- \*BT1 fluorides
- BT1 germanium compounds

**GERMANIUM HYDRIDES**

- UF *germanes*
- BT1 germanium compounds
- \*BT1 hydrides

**GERMANIUM HYDROXIDES***INIS: 1996-07-18; ETDE: 1978-04-06*

(From July 1996 to November 2007 GERMANIUM COMPOUNDS + HYDROXIDES was used for this concept.)

- BT1 germanium compounds
- \*BT1 hydroxides

**GERMANIUM IODIDES**

- BT1 germanium compounds
- \*BT1 iodides

**GERMANIUM IONS**

- \*BT1 ions

**GERMANIUM ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 germanium 58
- NT1 germanium 59
- NT1 germanium 60
- NT1 germanium 61
- NT1 germanium 62
- NT1 germanium 63
- NT1 germanium 64
- NT1 germanium 65
- NT1 germanium 66
- NT1 germanium 67
- NT1 germanium 68
- NT1 germanium 69
- NT1 germanium 70
- NT1 germanium 71
- NT1 germanium 72
- NT1 germanium 73
- NT1 germanium 74
- NT1 germanium 75
- NT1 germanium 76
- NT1 germanium 77
- NT1 germanium 78
- NT1 germanium 79
- NT1 germanium 80
- NT1 germanium 81
- NT1 germanium 82
- NT1 germanium 83
- NT1 germanium 84
- NT1 germanium 85
- NT1 germanium 86
- NT1 germanium 87
- NT1 germanium 88
- NT1 germanium 89

**GERMANIUM NITRIDES***INIS: 1979-04-27; ETDE: 1979-05-25*

- BT1 germanium compounds
- \*BT1 nitrides

**GERMANIUM OXIDES**

- BT1 germanium compounds
- \*BT1 oxides
- RT germanates

**GERMANIUM PHOSPHATES***INIS: 2000-04-12; ETDE: 1978-10-23*

- BT1 germanium compounds
- \*BT1 phosphates

**GERMANIUM PHOSPHIDES***INIS: 1978-07-03; ETDE: 1975-11-28*

- BT1 germanium compounds
- \*BT1 phosphides

**GERMANIUM SELENIDES***1977-10-17*

- BT1 germanium compounds
- \*BT1 selenides

**GERMANIUM SILICATES**

- BT1 germanium compounds
- \*BT1 silicates

**GERMANIUM SILICIDES***INIS: 1990-09-24; ETDE: 1976-03-11*

- BT1 germanium compounds
- \*BT1 silicides

**GERMANIUM SULFIDES**

- BT1 germanium compounds
- \*BT1 sulfides

**GERMANIUM TELLURIDES***1977-10-17*

- BT1 germanium compounds
- \*BT1 tellurides

**germany***INIS: 2000-04-12; ETDE: 1976-09-28*

*For use in indexing pre-World War II research.*

(Prior to June 1992 this was a valid ETDE descriptor.)

- USE federal republic of germany

**germany (democratic republic)**

- USE federal republic of germany

**germany (federal republic)***2000-04-12*

- USE federal republic of germany

**GERMICIDES***INIS: 1997-06-17; ETDE: 1980-03-04*

*Agents that destroy microorganisms.*

- UF bactericides
- NT1 antiseptics
- NT1 disinfectants
- RT antibiotics
- RT bacteria
- RT infectivity
- RT sterilization

**GERMINATION**

- RT coleoptile
- RT seedlings
- RT seeds

**germs (microorganisms)**

- USE microorganisms

**gerontine**

- USE spermine

**ges fuer reaktorsicherheit***INIS: 1994-07-14; ETDE: 1977-10-19*

(Until July 1994 this was a valid descriptor.)

- USE gesellschaft fuer anlagen- und reaktorsicherheit

**GESELLSCHAFT FUER ANLAGEN- UND REAKTORSICHERHEIT***1994-07-14*

*A section of the Technical Inspection Associations of the German Federal Republic.*

(Until July 1994 this concept was indexed by GES FUER REAKTORSICHERHEIT.)

- UF *ges fuer reaktorsicherheit*
- UF *grs*
- UF *institute for reactor safety*
- \*BT1 german fr organizations
- RT inspection
- RT reactor licensing
- RT reactor safety
- RT safety standards

**GETR REACTOR**

*General Electric Company, Vallecitos Nuclear Center, Pleasanton, California, USA, Shut down in 1977.*

- UF *general electric test reactor*
- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**GETTERING**

- RT adsorption
- RT electron tubes
- RT getters

**GETTERS**

*Materials used for the purification of vacuum atmospheres; see also the specific materials.*

- RT electron tubes
- RT gettering

RT sputter-ion pumps  
RT vacuum pumps

**GEV RANGE**

From 10 exp 9 to 10 exp 12 ev.

BT1 energy range  
NT1 gev range 01-10  
NT1 gev range 10-100  
NT1 gev range 100-1000  
RT shower counters

**GEV RANGE 01-10**

\*BT1 gev range

**GEV RANGE 10-100**

\*BT1 gev range

**GEV RANGE 100-1000**

\*BT1 gev range

**GEYSERS**

2000-03-31

Hot springs that intermittently erupt jets of hot water and steam.

UF old faithful geyser  
SF geothermal springs  
SF thermal waters

\*BT1 hot springs  
RT ground water  
RT hydrothermal systems

**GEYSERS GEOTHERMAL FIELD**

1992-06-04

UF the geysers  
BT1 geothermal fields  
RT california  
RT vapor-dominated systems

**GHANA**

BT1 africa  
BT1 developing countries

**ghana miniature neutron source reactor**

2004-03-15

USE gharr-1 reactor

**GHANAIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**GHARR-1 REACTOR**

1999-08-17

Ghana National Nuclear Research Institute, Legon Accra, Ghana.

UF ghana miniature neutron source reactor

\*BT1 mnsr type reactors

**GHZ RANGE**

BT1 frequency range  
NT1 ghz range 01-100  
NT1 ghz range 100-1000  
RT radioastronomy

**GHZ RANGE 01-100**

UF decimeter wave radiation (1-3 dm)  
UF shf radiation  
UF super high frequency radiation  
UF uhf (lower range)  
UF uhf radiation (01-100 ghz)  
UF uhf radiation (upper range)  
UF ultrahigh frequency (lower range)  
UF ultrahigh frequency radiation (01-100 ghz)  
UF ultrahigh frequency radiation (upper range)

\*BT1 ghz range

**GHZ RANGE 100-1000**

UF uhf (upper range)  
UF ultrahigh frequency (upper range)  
\*BT1 ghz range

**GIAMMARCO VETROCOKE SULFUR PROCESS**

2000-04-12

Process for the continuous removal of hydrogen sulfide from natural gas or synthesis gases by scrubbing sour gas with an alkali arsenate or arsenite solution.

\*BT1 desulfurization

**giant cells**

USE tumor cells

**GIANT RESONANCE**

BT1 resonance  
RT cross sections  
RT giant resonance model  
RT nuclear reactions  
RT photonuclear reactions

**GIANT RESONANCE MODEL**

UF goldhaber-teller model  
RT cross sections  
RT giant resonance  
RT photonuclear reactions  
RT resonance

**GIANT STARS**

BT1 stars  
NT1 red giant stars  
NT1 supergiant stars

**GIBBERELIC ACID**

UF gibberellin a3  
\*BT1 hydroxy acids  
\*BT1 lactones  
RT auxins

**gibberellin a3**

USE gibberellic acid

**gibbs formation free energy**

INIS: 1976-03-25; ETDE: 1976-05-17

USE formation free enthalpy

**gibbs free energy**

USE free enthalpy

**GIBBSITE**

INIS: 1999-03-02; ETDE: 1976-01-23

A white or tinted monoclinic mineral: Al(OH).

\*BT1 oxide minerals  
RT aluminium hydroxides

**GIBSSAR STANDARD PLANT**

INIS: 1977-11-03; ETDE: 1977-06-24

Gibbs and Hill reference PWR nuclear power plant.

\*BT1 nuclear power plants  
RT westinghouse standard reactor

**gibraltar**

INIS: 2000-04-12; ETDE: 1981-10-24

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE united kingdom

**gidep**

INIS: 2000-04-12; ETDE: 1984-11-09

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE data acquisition

**GIDRA REACTOR**

2004-09-09

Russian Research Center, Kurchatov Institute, Moscow, Russian Federation.

UF hydra reactor  
\*BT1 aqueous homogeneous reactors  
\*BT1 enriched uranium reactors  
\*BT1 pulsed reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**GIGAWATT POWER RANGE**

INIS: 1988-04-15; ETDE: 1989-08-10

BT1 power range  
NT1 power range 01-10 gw  
NT1 power range 10-100 gw  
NT1 power range 100-1000 gw

**gigily oil**

USE sesame oil

**GILLS**

BT1 respiratory system  
RT fishes

**gingelly oil**

USE sesame oil

**ginger**

INIS: 1996-04-26; ETDE: 1996-05-03

USE spices

**gingily oil**

USE sesame oil

**GINNA-1 REACTOR**

Rochester Gas Electric Corp., Ontario, New York, USA.

UF robert e. ginna-1 reactor

\*BT1 pwr type reactors

**GINNA-2 REACTOR**

Ontario, New York, USA. Unit never ordered.

UF robert e. ginna-2 reactor

\*BT1 power reactors

**GINZBURG-LANDAU THEORY**

UF maki parameter  
RT coherence length  
RT penetration depth  
RT superconductivity

**GINZBURG-PITAEVSKII THEORY**

UF landau-ginzburg-pitaevskii theory  
RT superfluidity

**GIRBOTOL PROCESS**

2000-04-12

\*BT1 desulfurization

**girdler-girbotol process**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE desulfurization

**GIROMILL TURBINES**

INIS: 2000-04-12; ETDE: 1977-06-02

Vertical axis turbines with vertical blades which change orientation with increased speed.

\*BT1 vertical axis turbines

**gis**

2003-05-30

USE geographic information systems

**gkn-1 reactor (neckar)**

1979-11-02

USE neckar-1 reactor

**gkn-2 reactor (neckar)**

INIS: 2000-04-12; ETDE: 1979-11-23

USE neckar-2 reactor

**gkn reactor (dodewaard)**

USE dodewaard reactor

**gkn reactor (neckar)**

2000-04-12

SEE neckar-1 reactor

SEE neckar-2 reactor

**GKT PROCESS**

INIS: 2000-04-12; ETDE: 1982-03-10

Process developed by Gesellschaft fuer Kohle-Technologie in which coal dust/oxygen/steam mixture reacts rapidly to form synthesis gas.

\*BT1 coal gasification

**GLACIERS**

RT antarctic regions  
RT arctic regions  
RT cryosphere  
RT hydrosphere  
RT ice  
RT ice caps  
RT pleistocene epoch  
RT snow  
RT water

**GLANDS**

UF sebaceous glands  
UF sweat glands

\*BT1 organs

NT1 endocrine glands  
NT2 adrenal glands  
NT2 pancreas  
NT2 parathyroid glands  
NT2 pituitary gland  
NT2 thyroid  
NT1 liver  
NT1 mammary glands  
NT1 pineal gland  
NT1 prostate  
NT1 salivary glands  
RT adenomas  
RT excretion  
RT secretion

**glasgow utr-100 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE srcc-utr-100 reactor

**GLASS**

A hard, amorphous, brittle substance made by fusing silicates, sometimes borates and phosphates, with basic oxides and then rapidly cooling.

NT1 borophosphate glass  
NT1 borosilicate glass  
NT2 pyrex  
NT1 phosphate glass  
RT ceramics  
RT colorimetric dosimeters  
RT dielectric track detectors  
RT double glazing  
RT fiberglass  
RT glass industry  
RT glazing materials  
RT metallic glasses  
RT perlite  
RT phase diagrams  
RT phase transformations  
RT silicon oxides  
RT solids  
RT vitrification  
RT vycor

**glass development laser facility**

INIS: 1993-11-08; ETDE: 1986-02-04

At University of Rochester.

USE gdl facility

**glass dosimeters**

USE rpl dosimeters

**GLASS INDUSTRY**

INIS: 1994-09-13; ETDE: 1977-06-02

BT1 industry  
RT beverage industry  
RT glass

**glass melters**

INIS: 2000-04-12; ETDE: 1980-12-08

USE ceramic melters

**GLASS SCINTILLATORS**

BT1 phosphors  
RT luminescent dosimeters  
RT solid scintillation detectors

**glassy alloys**

INIS: 1984-01-18; ETDE: 2002-06-13

USE metallic glasses

**glassy metals**

INIS: 1984-01-18; ETDE: 1983-02-09

USE metallic glasses

**GLAUBER THEORY**

RT fsc approximation  
RT multiple scattering  
RT scattering

**glauber's salt**

INIS: 2000-04-12; ETDE: 1979-11-07

USE sodium sulfates

**GLAZES**

BT1 coatings  
RT ceramics

**glazing**

INIS: 2000-04-12; ETDE: 1983-03-23

A covering of transparent or translucent materials used for admitting light.

(Prior to April 1997 this was a valid ETDE descriptor.)

USE glazing materials

**GLAZING MATERIALS**

INIS: 1992-08-19; ETDE: 1978-04-06

Transparent or translucent materials such as glass or glass substitutes.

UF glazing  
BT1 materials  
RT building materials  
RT coverings  
RT double glazing  
RT fiberglass  
RT glass  
RT heat mirrors  
RT polyethylenes  
RT polyvinyls  
RT skylights  
RT windows

**GLEEP REACTOR**

UKAEA Atomic Energy Research Establishment, Harwell, United Kingdom.

UF graphite low-energy experimental pile

\*BT1 air cooled reactors  
\*BT1 graphite moderated reactors  
\*BT1 materials testing reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**GLEN DAVIS FACILITY**

2000-04-12

\*BT1 oil shale processing plants  
RT new south wales

**glioblastomas**

ETDE: 2002-06-13

USE gliomas

**GLIOMAS**

INIS: 1986-12-18; ETDE: 1981-01-12

UF glioblastomas  
\*BT1 neoplasms  
\*BT1 nervous system diseases

NT1 astrocytomas

**GLOBAL ANALYSIS**

Studies mathematical manifolds with topology which is locally Euclidean but globally non-Euclidean.

BT1 mathematics  
RT topology

**GLOBAL ASPECTS**

UF global risk  
SF world  
RT contamination  
RT earth atmosphere  
RT fallout  
RT globalization  
RT pollution  
RT waste disposal

**global climate change**

INIS: 1992-01-08; ETDE: 1991-10-28

USE climatic change

**GLOBAL FALLOUT**

UF world-wide fallout  
BT1 fallout  
RT nuclear explosions  
RT stratosphere  
RT tropopause

**GLOBAL POSITIONING SYSTEM**

2004-08-30

UF gps  
RT coordinates  
RT navigational instruments  
RT positioning  
RT satellites

**global risk**

USE global aspects  
USE hazards

**global temperature**

INIS: 1993-07-06; ETDE: 2002-06-13

USE ambient temperature

**global warming**

INIS: 2000-04-12; ETDE: 1991-05-17

USE greenhouse effect

**GLOBALIZATION**

2004-08-30

RT economy  
RT global aspects  
RT market  
RT trade

**GLOBINS**

INIS: 1982-12-08; ETDE: 1990-10-09

(The form GLOBIN was used by INIS prior to January 1983 and by ETDE prior to October 1990.)

\*BT1 proteins  
NT1 hemoglobin  
NT2 methemoglobin  
NT1 myoglobin

**GLOBULINS**

UF c-reactive protein

\*BT1 proteins  
NT1 angiotensin  
NT1 fibrinogen  
NT1 globulins-alpha  
NT2 ceruloplasmin  
NT2 haptoglobins  
NT1 globulins-beta  
NT2 transferrin  
NT1 globulins-gamma  
NT1 immunoglobulins  
NT1 lactoferrin  
NT1 myosin  
NT1 thyroglobulin

**GLOBULINS-ALPHA**

- \*BT1 globulins
- NT1 ceruloplasmin
- NT1 haptoglobins

**GLOBULINS-BETA**

- \*BT1 globulins
- NT1 transferrin

**GLOBULINS-GAMMA**

- \*BT1 globulins

**GLOBUS-M SPHEROMAK**

- INIS: 1999-07-26; ETDE: 1999-09-03
- Ioffe Institute, St. Petersburg, Russia.
- \*BT1 spheromak devices

**GLOMERULI**

- \*BT1 kidneys
- RT capillaries
- RT renal clearance
- RT tubules
- RT ultrafiltration

**glossaries**

- INIS: 1994-09-29; ETDE: 1976-11-01
- USE dictionaries

**GLOSSINA**

- UF tsetse fly
- \*BT1 flies
- RT disease vectors
- RT trypanosoma

**GLOVEBOXES**

- \*BT1 laboratory equipment
- RT containment
- RT gloves
- RT hot cells
- RT leaks
- RT radiation protection
- RT remote handling
- RT shielding

**GLOVES**

- \*BT1 protective clothing
- RT gloveboxes
- RT hands
- RT radiation protection
- RT shielding
- RT skin
- RT skin absorption

**GLOW CURVE**

- RT luminescence

**GLOW DISCHARGES**

- BT1 electric discharges

**GLUCAGON**

- \*BT1 peptide hormones
- \*BT1 polypeptides
- RT glucose
- RT metabolism
- RT pancreas

**GLUCOCORTICOIDS**

- \*BT1 corticosteroids
- NT1 corticosterone
- NT1 cortisone
- NT1 dexamethasone
- NT1 hydrocortisone
- NT1 prednisolone
- NT1 prednisone
- RT acth
- RT immunosuppression

**GLUCOHEPTONATE**

- INIS: 2000-04-12; ETDE: 1978-06-14
- \*BT1 carboxylic acid esters

**GLUCONIC ACID**

- UF dextronic acid

- UF glyconic acid
- UF glykogenic acid
- \*BT1 hydroxy acids
- RT monosaccharides

**GLUCOPROTEINS**

1975-08-20

- \*BT1 glycoproteins
- NT1 lactoferrin
- NT1 ovalbumin
- RT golgi complexes
- RT post-translation modification

**GLUCOSAMINE**

- \*BT1 hexosamines
- RT chitin

**GLUCOSE**

- \*BT1 aldehydes
- \*BT1 hexoses
- RT fluorodeoxyglucose
- RT glucagon
- RT insulin
- RT uridine diphosphoglucose

**GLUCOSIDASE**

INIS: 1992-02-03; ETDE: 1981-01-30

- \*BT1 o-glycosyl hydrolases

**GLUCURONIC ACID**

- \*BT1 aldehydes
- \*BT1 hydroxy acids
- RT glucuronidase
- RT glucuronide conjugates
- RT hyaluronic acid
- RT pectins

**GLUCURONIDASE**

Code number 3.2.1.31.

- \*BT1 o-glycosyl hydrolases
- RT glucuronic acid

**GLUCURONIDE CONJUGATES**

INIS: 2000-04-12; ETDE: 1985-09-24

Water soluble conjugates of many foreign substances are formed by condensation with glucuronic acid. This conjugation precedes and facilitates the elimination of the foreign substance from the organism.

- BT1 metabolites
- RT biliary tract
- RT excretion
- RT glucuronic acid
- RT glutathione conjugates
- RT sulfates

**GLUEBALLS**

INIS: 1983-10-14; ETDE: 1983-03-07

Bound states of gluons.

- UF gluonium
- RT bound state
- RT color model
- RT gluon model
- RT gluons

**GLUON CONDENSATION**

INIS: 1989-04-20; ETDE: 1989-05-11

- RT gluons
- RT quantum operators
- RT vacuum states

**GLUON-GLUON INTERACTIONS**

INIS: 1988-11-16; ETDE: 1988-12-02

- \*BT1 particle interactions
- RT gluons
- RT quantum chromodynamics

**GLUON MODEL**

- UF massive vector-meson model
- SF parton model
- \*BT1 particle models
- RT glueballs
- RT gluons

- RT quantum chromodynamics
- RT vector mesons

**gluonium**

INIS: 1983-10-14; ETDE: 1983-03-07

USE glueballs

**GLUONS**

INIS: 1979-01-18; ETDE: 1979-02-23

- SF partons
- BT1 bosons
- RT glueballs
- RT gluon condensation
- RT gluon-gluon interactions
- RT gluon model
- RT quantum chromodynamics
- RT quark-gluon interactions
- RT quark matter
- RT vector mesons

**GLUTAMIC ACID**

- UF aminoglutaric acid-alpha
- \*BT1 amino acids
- NT1 pyridoxylideneglutamate
- RT glutamine
- RT glutaric acid

**GLUTAMINE**

- \*BT1 amides
- \*BT1 amino acids
- RT glutamic acid

**GLUTARIC ACID**

- \*BT1 dicarboxylic acids
- RT glutamic acid

**GLUTATHIONE**

- \*BT1 polypeptides
- \*BT1 radioprotective substances
- RT glutathione conjugates

**GLUTATHIONE CONJUGATES**

INIS: 2000-04-12; ETDE: 1985-09-24

Water soluble conjugates of many foreign substances are formed by condensation with glutathione. This conjugation precedes and facilitates the elimination of the foreign substance from the organism.

- BT1 metabolites
- RT biliary tract
- RT excretion
- RT glucuronide conjugates
- RT glutathione
- RT sulfates

**GLUTIN**

- \*BT1 scleroproteins

**GLYCERIC ACID**

- UF dihydroxypropionic acid
- \*BT1 hydroxy acids

**glycerin**

- USE glycerol

**GLYCEROL**

1996-10-22

- UF 1,2,3-propanetriol
- UF glycerin
- \*BT1 alcohols
- RT lecithins
- RT lugol
- RT nitroglycerin
- RT triglycerides

**glyceryl trioleate**

- USE triolein

**glycides**

- USE saccharides

**GLYCINE**

- UF aminoacetic acid

UF *glycocoll*  
 \*BT1 amino acids  
 RT glycyglycine  
 RT hippuric acid  
 RT sarcosine

**GLYCINE HISPIDA**

UF *soybean plant*  
 \*BT1 leguminosae  
 RT forage  
 RT soybeans

**glycocoll**

USE glycine

**GLYCOGEN**

\*BT1 polysaccharides  
 RT liver

**glycol monoalkyl ethers**

USE cellosolves

**GLYCOLIC ACID**

UF *hydroxyacetic acid*  
 \*BT1 hydroxy acids  
 \*BT1 monocarboxylic acids  
 RT thionalide

**GLYCOLIPIDS**

\*BT1 lipids  
 \*BT1 saccharides  
 NT1 cerebrosides  
 NT1 gangliosides  
 RT golgi complexes

**GLYCOLS**

1996-06-26

UF *1,2-ethanediol*  
 UF *benzopinacol*  
 UF *carbitols*  
 UF *diglycol monoalkyl ethers*  
 UF *diols*  
 UF *ethylene glycol*  
 UF *tetraphenylethylene glycol*  
 \*BT1 alcohols  
 NT1 butanediols  
 NT1 cellosolves  
 NT1 egta  
 NT1 pinacol  
 NT1 polyethylene glycols  
 NT2 carbowax  
 NT2 pluronics  
 RT dacron  
 RT mylar

**GLYCOLYSIS**

\*BT1 decomposition  
 BT1 metabolism  
 RT carbohydrates  
 RT catabolism  
 RT enzymes  
 RT saccharides

**glyconic acid**

USE gluconic acid

**GLYCOPROTEINS**

1975-11-27

\*BT1 proteins  
 \*BT1 saccharides  
 NT1 avidin  
 NT1 glucoproteins  
 NT2 lactoferrin  
 NT2 ovalbumin  
 NT1 luteinizing hormone  
 RT mucopolysaccharides  
 RT mucoproteins  
 RT post-translation modification

**GLYCOSIDES**

1996-10-23

UF *hesperidin*

UF *phloredzin*  
 UF *phlorhizin*  
 UF *phlorizin*  
 \*BT1 carbohydrates  
 NT1 cardiac glycosides  
 NT2 digitalis glycosides  
 NT3 digitoxin  
 NT3 digoxin  
 NT2 strophanthins  
 NT3 ouabain  
 NT1 saponins  
 NT1 strophanthin  
 NT1 uridine diphosphoglucose  
 RT lignin  
 RT quercetin

**glycosuria**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE metabolic diseases  
 USE urogenital system diseases

**GLYCOSYL HYDROLASES**

Code number 3.2.

\*BT1 hydrolases  
 NT1 o-glycosyl hydrolases  
 NT2 amylase  
 NT2 cellulase  
 NT2 galactosidase  
 NT2 glucosidase  
 NT2 glucuronidase  
 NT2 hyaluronidase  
 NT2 lysozyme  
 NT2 xylanase

**GLYCOSYL TRANSFERASES**

INIS: 1982-06-09; ETDE: 1981-06-13

Code number 2.4.

\*BT1 transferases  
 NT1 hexosyl transferases  
 NT1 pentosyl transferases  
 NT2 hypoxanthine phosphoribosyltransferase

**GLYCYLGLYCINE**

2000-04-05

\*BT1 amino acids  
 \*BT1 peptides  
 RT glycine

**glykogenic acid**

USE gluconic acid

**GLYOXAL**

UF *1,2-ethanedial*  
 UF *oxalaldehyde*  
 \*BT1 aldehydes

**GLYOXYLIC ACID**

UF *oxoacetic acid*  
 \*BT1 aldehydes  
 \*BT1 carboxylic acids

**GNEISSES**

INIS: 1984-02-22; ETDE: 1980-08-12

\*BT1 metamorphic rocks

**GNOME EVENT**

BT1 plowshare project  
 BT1 vela project

**gnothobionts**

USE germ-free animals

**GOATS**

\*BT1 domestic animals  
 \*BT1 ruminants

**gobar gas**

INIS: 2000-04-12; ETDE: 1975-10-01  
 (Prior to March 1983 this concept in ETDE was indexed by INTERMEDIATE BTU GAS.)

USE intermediate btu gas  
 USE methane

**GODIVA REACTOR**

LANL, Los Alamos, New Mexico, USA.

\*BT1 zero power reactors

**GOES SATELLITES**

INIS: 1983-03-15; ETDE: 1980-04-14

UF *geostationary operational environmental satellite*

BT1 satellites  
 RT geologic surveys  
 RT remote sensing

**GOESGEN REACTOR**

Daeniken, Soleure, Switzerland.

UF *kernkraftwerk goesgen-daeniken*

\*BT1 pwr type reactors

**GOETHITE**

INIS: 1992-09-03; ETDE: 1984-02-10

\*BT1 oxide minerals  
 RT iron oxides  
 RT limonite

**goiania radiological emergency**

INIS: 1988-08-02; ETDE: 2002-06-13

Goiania, Goias, Brazil.

USE brazil  
 USE radiation accidents

**GOITER**

\*BT1 endocrine diseases  
 RT hyperthyroidism  
 RT hypothyroidism  
 RT thyroid

**GOL-3 DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03

Budker Institute for Nuclear Physics, Novosibirsk, Russia.

\*BT1 magnetic mirrors

**GOLD**

\*BT1 transition elements

**GOLD 169**

2007-10-22

\*BT1 gold isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**GOLD 170**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 gold isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes

**GOLD 171**

2003-06-26

\*BT1 alpha decay radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes

**GOLD 172**

1994-04-11

\*BT1 alpha decay radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei



**GOLD 173**

1983-09-01

- \*BT1 alpha decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**GOLD 174**

1983-09-01

- \*BT1 alpha decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GOLD 175**

ETDE: 1975-08-19

- \*BT1 alpha decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**GOLD 176**

ETDE: 1975-08-19

- \*BT1 alpha decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GOLD 177**

- \*BT1 alpha decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GOLD 178**

- \*BT1 alpha decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GOLD 179**

- \*BT1 alpha decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GOLD 180**

- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GOLD 181**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GOLD 182**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GOLD 183**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei

- \*BT1 seconds living radioisotopes

**GOLD 184**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GOLD 185**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**GOLD 186**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**GOLD 187**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**GOLD 187 TARGET**INIS: 1978-11-24; ETDE: 1978-12-20  
BT1 targets**GOLD 188**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**GOLD 189**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**GOLD 190**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**GOLD 191**

- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**GOLD 192**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**GOLD 193**

- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GOLD 193 TARGET**INIS: 1977-11-21; ETDE: 1978-03-08  
BT1 targets**GOLD 194**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei

**GOLD 194 TARGET**INIS: 1977-11-21; ETDE: 1978-03-08  
BT1 targets**GOLD 195**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GOLD 195 TARGET**INIS: 1977-11-21; ETDE: 1978-03-08  
BT1 targets**GOLD 196**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GOLD 196 TARGET**INIS: 1977-11-21; ETDE: 1978-03-08  
BT1 targets**GOLD 197**

- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes

**GOLD 197 BEAMS**INIS: 1979-04-27; ETDE: 1979-05-25  
\*BT1 ion beams**GOLD 197 REACTIONS**INIS: 1984-06-21; ETDE: 1984-07-10  
\*BT1 heavy ion reactions**GOLD 197 TARGET**ETDE: 1976-07-09  
BT1 targets**GOLD 198**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei

- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- RT radiocolloids
- GOLD 198 TARGET**
- INIS: 1977-11-21; ETDE: 1978-03-08
- BT1 targets
- GOLD 199**
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- GOLD 199 TARGET**
- INIS: 1977-11-21; ETDE: 1978-03-08
- BT1 targets
- GOLD 200**
- \*BT1 beta-minus decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- GOLD 201**
- \*BT1 beta-minus decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- GOLD 202**
- \*BT1 beta-minus decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- GOLD 203**
- \*BT1 beta-minus decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- GOLD 204**
- \*BT1 beta-minus decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- GOLD 205**
- 1994-04-11
- \*BT1 beta-minus decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- GOLD ADDITIONS**
- 2000-04-05
- Alloys containing not more than 1% Au are listed here.
- \*BT1 gold alloys
- GOLD ALLOYS**
- 1995-02-27
- Alloys containing more than 1% Au.
- \*BT1 transition element alloys
- NT1 gold additions
- NT1 gold base alloys
- NT2 palau
- GOLD BASE ALLOYS**
- \*BT1 gold alloys
- NT1 palau

- GOLD BROMIDES**
- \*BT1 bromides
- \*BT1 gold compounds
- GOLD CHLORIDES**
- \*BT1 chlorides
- \*BT1 gold compounds
- GOLD COMPLEXES**
- \*BT1 transition element complexes
- GOLD COMPOUNDS**
- 1997-06-17
- UF aurates
- BT1 transition element compounds
- NT1 gold bromides
- NT1 gold chlorides
- NT1 gold fluorides
- NT1 gold hydrides
- NT1 gold iodides
- NT1 gold oxides
- NT1 gold silicides
- NT1 gold tellurides
- GOLD FLUORIDES**
- \*BT1 fluorides
- \*BT1 gold compounds
- GOLD HYDRIDES**
- 1978-11-24
- \*BT1 gold compounds
- \*BT1 hydrides
- GOLD IODIDES**
- \*BT1 gold compounds
- \*BT1 iodides
- GOLD IONS**
- \*BT1 ions
- GOLD ISOTOPEs**
- 1999-07-16
- BT1 isotopes
- NT1 gold 169
- NT1 gold 170
- NT1 gold 171
- NT1 gold 172
- NT1 gold 173
- NT1 gold 174
- NT1 gold 175
- NT1 gold 176
- NT1 gold 177
- NT1 gold 178
- NT1 gold 179
- NT1 gold 180
- NT1 gold 181
- NT1 gold 182
- NT1 gold 183
- NT1 gold 184
- NT1 gold 185
- NT1 gold 186
- NT1 gold 187
- NT1 gold 188
- NT1 gold 189
- NT1 gold 190
- NT1 gold 191
- NT1 gold 192
- NT1 gold 193
- NT1 gold 194
- NT1 gold 195
- NT1 gold 196
- NT1 gold 197
- NT1 gold 198
- NT1 gold 199
- NT1 gold 200
- NT1 gold 201
- NT1 gold 202
- NT1 gold 203
- NT1 gold 204
- NT1 gold 205

- GOLD ORES**
- BT1 ores
- GOLD OXIDES**
- 1996-07-16
- \*BT1 gold compounds
- \*BT1 oxides
- GOLD SILICIDES**
- INIS: 1985-01-17; ETDE: 1975-12-16
- \*BT1 gold compounds
- \*BT1 silicides
- GOLD TELLURIDES**
- INIS: 2000-04-12; ETDE: 1975-11-28
- \*BT1 gold compounds
- \*BT1 tellurides
- GOLDBERGER MODEL**
- UF serber-goldberger model
- \*BT1 nuclear models
- GOLDBERGER-TREIMAN RELATION**
- RT coupling
- RT pions
- RT quantum field theory
- RT weak interactions
- GOLDFISH**
- UF carassius
- \*BT1 fishes
- goldhaber-teller model**
- USE giant resonance model
- GOLDSTONE BOSONS**
- Massless particles occurring in certain broken-symmetry theories.
- BT1 bosons
- \*BT1 postulated particles
- NT1 axions
- RT invariance principles
- RT su groups
- GOLDSTONE DIAGRAMS**
- UF brueckner approximation
- UF brueckner-goldstone theory
- UF brueckner-sawada theory
- UF sawada method
- \*BT1 diagrams
- RT many-body problem
- GOLFECH-1 REACTOR**
- INIS: 1984-07-23; ETDE: 1984-09-05
- \*BT1 pwr type reactors
- GOLFECH-2 REACTOR**
- 1995-06-29
- \*BT1 pwr type reactors
- golgi apparatus**
- USE golgi complexes
- golgi bodies**
- INIS: 2000-04-12; ETDE: 1991-08-21
- USE golgi complexes
- GOLGI COMPLEXES**
- INIS: 1999-04-20; ETDE: 1991-08-21
- (Until August 1994 this concept was indexed to ORGANOIDs.)
- UF dictyosomes
- UF golgi apparatus
- UF golgi bodies
- UF organoids
- BT1 cell constituents
- RT cell membranes
- RT endoplasmic reticulum
- RT glucoproteins
- RT glycolipids
- RT lysosomes
- RT post-translation modification

**GONADOTROPINS**

- \*BT1 pituitary hormones
- NT1 fsh
- NT1 hcg
- NT1 lth
- NT1 luteinizing hormone
- RT gonads

**GONADS**

- NT1 ovaries
- NT1 testes
- RT castration
- RT endocrine glands
- RT female genitals
- RT fertility
- RT gametogenesis
- RT genetic effects
- RT germ cells
- RT gonadotropins
- RT hcg
- RT male genitals
- RT pelvis
- RT reproduction
- RT sex

**GONDWANA**

- INIS: 2000-04-12; ETDE: 1989-09-08
- RT plate tectonics

**GONIOMETERS**

- BT1 measuring instruments

**GONORRHEA**

- INIS: 1976-06-23; ETDE: 1976-08-24
- \*BT1 bacterial diseases
- \*BT1 urogenital system diseases

**GOODS AND SERVICES**

- INIS: 2000-04-12; ETDE: 1983-03-23
- Includes personal property, actions, and services, as distinguished from real property.*
- RT procurement

**GORKOV-ELIASHBERG THEORY**

- INIS: 1977-07-05; ETDE: 1976-01-07
- Theory of gapless superconductivity arising from magnetic impurities.*
- UF eliasberg equations
- RT superconductivity

**GORLEBEN SALT DOME**

- INIS: 1989-11-24; ETDE: 1989-12-08
- \*BT1 radioactive waste facilities
- RT high-level radioactive wastes
- RT salt caverns
- RT salt deposits
- RT underground disposal

**gosatomnadzor**

- INIS: 1997-08-08; ETDE: 1977-06-03
- (Until July 1997 this was a valid descriptor.)
- USE gosatomnadzor rossii

**GOSATOMNADZOR ROSSII**

- 1997-08-08
- Until July 1997 this was known as GOSATOMNADZOR.*
- UF gosatomnadzor
- UF nuclear and radiation safety federal authority of russia
- UF russian state nuclear and radiation safety authority
- \*BT1 russian organizations

**GOVERNMENT BUILDINGS**

- INIS: 1994-10-03; ETDE: 1993-01-20
- (Until September 1994 this concept was indexed to FEDERAL BUILDINGS.)
- UF federal buildings
- BT1 buildings
- RT military facilities
- RT office buildings

- RT public buildings

**government industry data exchange program (gidep)**

- INIS: 2000-04-12; ETDE: 1984-11-09
- SEE data acquisition

**GOVERNMENT POLICIES**

- 1998-01-28
- (From August 1979 till March 1997 LEGAL INCENTIVES was a valid ETDE descriptor.)
- SF legal incentives
- SF policy
- NT1 economic policy
- NT1 energy policy
- NT2 national energy plans
- NT3 us national energy plan
- NT2 project independence
- NT1 environmental policy
- NT2 emissions trading
- NT2 water policy
- NT1 foreign policy
- RT deregulation
- RT implementation
- RT institutional factors
- RT local government
- RT national government
- RT nationalization
- RT non-proliferation policy
- RT nuclear power phaseout
- RT planning
- RT political aspects
- RT public enterprises
- RT public officials
- RT public policy
- RT regional cooperation
- RT regulations
- RT state government
- RT territorial waters
- RT us federal assistance programs
- RT us national program plans

**government spending**

- INIS: 2000-04-12; ETDE: 1980-08-25
- Coordinate the descriptor below with one for the level of government involved, e.g. NATIONAL GOVERNMENT.*
- (Prior to February 1997 FEDERAL EXPENDITURES was used for this concept.)
- USE expenditures

**GOVERNOR MODEL**

- \*BT1 shell models
- RT cranking model
- RT deformed nuclei
- RT fission

**governors**

- INIS: 2000-04-12; ETDE: 1979-11-23
- USE state officials

**gps**

- 2004-08-30
- USE global positioning system

**GRABEN-1 REACTOR**

- \*BT1 bwr type reactors

**GRABEN-2 REACTOR**

- 2000-04-12
- \*BT1 bwr type reactors

**GRABS**

- \*BT1 materials handling equipment
- RT hoists
- RT materials handling

**grace particles**

- INIS: 1978-08-14; ETDE: 1978-10-19
- Flavor of quarks proposed in certain U(3) gauge theories of electroweak interactions.*
- (This was a valid descriptor from August 1978 to March 2006.)
- SEE quarks

**GRAD-SHAFRANOV EQUATION**

- INIS: 1983-10-14; ETDE: 1983-11-09
- \*BT1 partial differential equations
- RT mercier criterion
- RT plasma
- RT transport theory

**graded band gap solar cells**

- INIS: 1992-05-28; ETDE: 1981-07-18
- USE cascade solar cells

**GRADED BAND GAPS**

- INIS: 1992-05-28; ETDE: 1978-12-11
- RT band theory
- RT cascade solar cells
- RT semiconductor materials
- RT solar cells

**GRADED LIE GROUPS**

- INIS: 1978-11-24; ETDE: 1978-12-20
- Lie groups defined by an algebraic structure which contains commutation and anticommutation relations.*
- UF lie superalgebra
- \*BT1 lie groups
- RT algebra
- RT supergravity
- RT supersymmetry

**GRAFENRHEINFELD REACTOR**

- \*BT1 pwr type reactors

**GRAFT-HOST REACTION**

- RT antigen-antibody reactions
- RT grafts
- RT histocompatibility complex
- RT host
- RT immunity
- RT transplants

**GRAFT POLYMERS**

- \*BT1 organic polymers
- RT ion exchange materials

**GRAFTS**

- BT1 transplants
- RT graft-host reaction
- RT radioimmunology

**grain alcohol**

- USE ethanol

**GRAIN BOUNDARIES**

- UF boundaries (grain)
- BT1 microstructure
- RT dislocation pinning
- RT grain growth
- RT intergranular corrosion

**GRAIN DENSITY**

- UF density (grain)
- BT1 microstructure
- RT granular materials

**GRAIN DISINFESTATION**

- BT1 disinfestation
- RT agriculture
- RT cereals
- RT fumigants
- RT insects
- RT pesticides
- RT preservation
- RT radiodisinfestation
- RT sterilization

**GRAIN GROWTH**

- UF growth (grain)  
 RT crystal growth  
 RT grain boundaries  
 RT grain refinement  
 RT grain size  
 RT recrystallization

**GRAIN ORIENTATION**

- UF orientation (grain)  
 UF preferred orientation  
 BT1 microstructure  
 BT1 orientation  
 RT texture

**GRAIN REFINEMENT**

- UF refinement (grain)  
 RT grain growth  
 RT grain size  
 RT heat treatments

**GRAIN SIZE**

See also *PARTICLE SIZE*.

- BT1 microstructure  
 BT1 size  
 RT grain growth  
 RT grain refinement  
 RT granular materials

**grains (cereal)**

- USE cereals  
 USE seeds

**GRAMINEAE**

ETDE: 1991-07-01

(Prior to December 1984 this was a valid ETDE descriptor. From December 1984 to July 1991 this concept in ETDE was indexed to GRASS.)

- UF grass  
 \*BT1 liliopsida  
 NT1 bamboo  
 NT1 cereals  
 NT2 barley  
 NT2 maize  
 NT2 millet  
 NT2 oats  
 NT2 rice  
 NT2 rye  
 NT2 sorghum  
 NT2 wheat

- NT1 reeds  
 NT2 sugar cane

- RT cattle  
 RT forage  
 RT ground cover  
 RT pastures  
 RT preferred species  
 RT weeds

**grand accélérateur national d'ions lourds**

INIS: 1976-07-30; ETDE: 2002-06-13

- USE ganil cyclotron

**GRAND GULF-1 REACTOR**

Entergy Operations, Inc., Port Gibson, Mississippi, USA.

- \*BT1 bwr type reactors

**GRAND GULF-2 REACTOR**

Entergy Operations, Inc., Port Gibson, Mississippi, USA. Canceled in 1990 after construction began (1974).

- \*BT1 bwr type reactors

**GRAND RIVER**

INIS: 1992-06-04; ETDE: 1981-01-27

- \*BT1 rivers  
 RT hydroelectric power  
 RT michigan

**grand unification**

INIS: 1983-12-01; ETDE: 2002-06-13

- USE grand unified theory

**GRAND UNIFIED THEORY**

INIS: 1995-08-10; ETDE: 1984-01-27

Gauge field theory to unify electromagnetic, weak and strong interactions. For unified theories involving gravitation see UNIFIED-FIELD THEORIES.

- UF grand unification  
 \*BT1 unified gauge models  
 NT1 standard model  
 RT electromagnetic interactions  
 RT quantum chromodynamics  
 RT so-10 groups  
 RT strong interactions  
 RT su-5 groups  
 RT unified-field theories  
 RT weak interactions  
 RT weinberg-salam gauge model

**GRANITES**

- \*BT1 plutonic rocks  
 NT1 aplites  
 NT1 granodiorites  
 NT1 quartz monzonite  
 RT biotite  
 RT feldspars  
 RT hornblende  
 RT pegmatites  
 RT quartz  
 RT rhyolites  
 RT xenotime

**GRANODIORITES**

- \*BT1 granites  
 RT feldspars  
 RT quartz

**grants**

INIS: 1985-01-17; ETDE: 1978-02-14

Things bestowed or transferred, such as money or land, for particular purposes. (Prior to February 1997 this was a valid ETDE descriptor.)

- USE financing

**GRANULAR BED FILTERS**

INIS: 1999-07-29; ETDE: 1978-06-14

(Until July 1999 this concept was indexed by MECHANICAL FILTERS.)

- \*BT1 mechanical filters  
 RT pollution control equipment

**GRANULAR MATERIALS**

INIS: 1982-09-21; ETDE: 1979-11-23

For unspecified materials having a granular texture.

- BT1 materials  
 RT grain density  
 RT grain size  
 RT particles  
 RT powders

**GRANULATION**

2006-02-08

Process of producing particles of grain-like structure from solid substances.

- BT1 fabrication  
 RT agglomeration

**granulation (solar)**

- USE solar granulation

**GRANULITES**

INIS: 2000-04-12; ETDE: 1980-08-12

- \*BT1 metamorphic rocks

**granulocytes**

- USE leukocytes

**GRANULOMAS**

- \*BT1 neoplasms  
 RT infectious diseases  
 RT inflammation  
 RT pathological changes

**GRAPEFRUITS**

- \*BT1 fruits  
 RT citrus

**GRAPES**

- \*BT1 fruits

**GRAPH THEORY**

2002-09-10

- SF graphs  
 BT1 mathematics  
 RT mathematical manifolds  
 RT mathematical space  
 RT measure theory  
 RT topological mapping  
 RT topology

**GRAPHITE**

- UF graphite moderator  
 \*BT1 carbon  
 BT1 minerals  
 RT carbon fibers  
 RT graphitization  
 RT matrix materials  
 RT moderators  
 RT refractories  
 RT solid lubricants  
 RT wigner effect

**graphite fibers**

INIS: 1983-03-15; ETDE: 1975-11-11

- USE carbon fibers

**graphite low-energy experimental pile**

1993-11-08

- USE gleep reactor

**GRAPHITE MODERATED REACTORS**

1996-01-24

- SF berkeley nuclear laboratory reactor  
 SF bnl reactor  
 SF smr reactor  
 SF solid moderated reactor  
 BT1 reactors  
 NT1 anna reactor  
 NT1 bepo reactor  
 NT1 bgrr reactor  
 NT1 bigr reactor  
 NT1 br-1 reactor  
 NT1 cesar reactor  
 NT1 cp-2 reactor  
 NT1 egcr reactor  
 NT1 f-1 reactor  
 NT1 ger type reactors  
 NT2 agr type reactors  
 NT3 connah quay-b reactor  
 NT3 dungeness-b reactor  
 NT3 hartlepool reactor  
 NT3 heysham-a reactor  
 NT3 heysham-b reactor  
 NT3 hinkley point-b reactor  
 NT3 hunterston-b reactor  
 NT3 torness reactor  
 NT3 wagr reactor  
 NT2 bugey-1 reactor  
 NT2 chinon-1 reactor  
 NT2 chinon-2 reactor  
 NT2 chinon-3 reactor  
 NT2 g-1 reactor  
 NT2 g-2 reactor  
 NT2 g-3 reactor  
 NT2 magnox type reactors

NT3 berkeley reactor  
 NT3 bradwell reactor  
 NT3 calder hall a-1 reactor  
 NT3 calder hall a-2 reactor  
 NT3 calder hall b-3 reactor  
 NT3 calder hall b-4 reactor  
 NT3 chapelcross-1 reactor  
 NT3 chapelcross-2 reactor  
 NT3 chapelcross-3 reactor  
 NT3 chapelcross-4 reactor  
 NT3 dungeness-a reactor  
 NT3 hinkley point-a reactor  
 NT3 hunterston-a reactor  
 NT3 latina reactor  
 NT3 oldbury-a reactor  
 NT3 sizewell-a reactor  
 NT3 tokai-mura reactor  
 NT3 trawsfynydd reactor  
 NT3 wylfa reactor  
 NT2 saint laurent-1 reactor  
 NT2 saint laurent-2 reactor  
 NT2 vandellos reactor  
 NT1 gleep reactor  
 NT1 hector reactor  
 NT1 hero reactor  
 NT1 hew-305 reactor  
 NT1 hitrex-1 reactor  
 NT1 hnpf reactor  
 NT1 htgr type reactors  
   NT2 avr reactor  
   NT2 dragon reactor  
   NT2 fulton-1 reactor  
   NT2 fulton-2 reactor  
   NT2 ga standard reactor  
   NT2 htr-10 reactor  
   NT2 httr reactor  
   NT2 kahter reactor  
   NT2 peach bottom-1 reactor  
   NT2 schmehausen-2 reactor  
   NT2 summit-1 reactor  
   NT2 summit-2 reactor  
   NT2 thtr-300 reactor  
   NT2 vg-400 reactor  
   NT2 vgr-50 reactor  
   NT2 vhtr reactor  
   NT2 vidal-1 reactor  
   NT2 vidal-2 reactor  
   NT2 vrain reactor  
 NT1 htltr reactor  
 NT1 ica-zpr reactor  
 NT1 igr reactor  
 NT1 iowa utr-10 reactor  
 NT1 kuca reactor  
 NT1 lwgr type reactors  
   NT2 aps reactor  
   NT2 beloyarsk-1 reactor  
   NT2 beloyarsk-2 reactor  
   NT2 bilibin reactor  
   NT2 chernobylsk-1 reactor  
   NT2 chernobylsk-2 reactor  
   NT2 chernobylsk-3 reactor  
   NT2 chernobylsk-4 reactor  
   NT2 ignalina-1 reactor  
   NT2 ignalina-2 reactor  
   NT2 kursk-1 reactor  
   NT2 kursk-2 reactor  
   NT2 kursk-3 reactor  
   NT2 kursk-4 reactor  
   NT2 leningrad-1 reactor  
   NT2 leningrad-2 reactor  
   NT2 leningrad-3 reactor  
   NT2 leningrad-4 reactor  
   NT2 n-reactor  
   NT2 rpt reactor  
   NT2 smolensk-1 reactor  
   NT2 smolensk-2 reactor  
   NT2 smolensk-3 reactor  
   NT2 uwtr reactor  
 NT1 marius reactor

NT1 msre reactor  
 NT1 ntr reactor  
 NT1 pctr reactor  
 NT1 proteus reactor  
 NT1 rb-1 reactor  
 NT1 sgr type reactors  
   NT2 sre reactor  
 NT1 shca reactor  
 NT1 sr-305 reactor  
 NT1 treat reactor  
 NT1 uhtrex reactor  
 NT1 windscale production reactors  
 NT1 x-10 reactor  
 NT1 zenith reactor

### graphite moderator

USE graphite

### GRAPHITIZATION

INIS: 1984-07-20; ETDE: 1975-11-11

RT carbonization  
 RT crystal-phase transformations  
 RT graphite

### graphs

INIS: 2000-04-12; ETDE: 1979-03-29

(Prior to December 1991 this was a valid ETDE descriptor.)

SEE diagrams  
 SEE graph theory

### gasers

INIS: 1981-04-03; ETDE: 1978-03-08

USE gasers

### GRASHOF NUMBER

BT1 dimensionless numbers  
 RT natural convection  
 RT viscosity

### grass

(Prior to July 1991 this was a valid ETDE descriptor.)

USE gramineae

### GRASSHOPPERS

\*BT1 orthoptera  
 NT1 locusts

### grasslands

INIS: 2000-04-12; ETDE: 1982-12-23

USE rangelands

### grates

INIS: 2000-04-12; ETDE: 1997-04-02

USE gratings

### GRATINGS

INIS: 1984-01-18; ETDE: 1982-01-21

*Crossed arrays of metal ribs or wires. Not for SCREENS or INTAKE STRUCTURES. See also DIFFRACTION GRATINGS, for which concept this term was used till November 1989.*

UF grates  
 RT diffraction  
 RT furnaces  
 RT screens  
 RT waveguides

### GRAVELINES-1 REACTOR

2004-12-20

Gravelines, Nord, France.

(Prior to December 2004 GRAVELINES-B1 REACTOR was used for this reactor.)

UF gravelines-b1 reactor  
 \*BT1 pwr type reactors  
 RT gravelines site

### GRAVELINES-2 REACTOR

2004-12-20

Gravelines, Nord, France.

\*BT1 pwr type reactors  
RT gravelines site

### GRAVELINES-3 REACTOR

2004-12-20

Gravelines, Nord, France.

\*BT1 pwr type reactors  
RT gravelines site

### GRAVELINES-4 REACTOR

2004-12-20

Gravelines, Nord, France.

\*BT1 pwr type reactors  
RT gravelines site

### GRAVELINES-5 REACTOR

2004-12-20

Gravelines, Nord, France.

\*BT1 pwr type reactors  
RT gravelines site

### GRAVELINES-6 REACTOR

2004-12-20

Gravelines, Nord, France.

(Prior to December 2004 GRAVELINES-C6 REACTOR was used for this reactor.)

UF gravelines-c6 reactor  
 \*BT1 pwr type reactors  
 RT gravelines site

### gravelines-b1 reactor

INIS: 1980-02-26; ETDE: 1980-03-29

Gravelines, Nord, France.

(Prior to December 2004 this was a valid descriptor.)

USE gravelines-1 reactor

### gravelines-c6 reactor

INIS: 1990-09-24; ETDE: 1990-10-09

Gravelines, Nord, France.

(Prior to December 2004 this was a valid descriptor.)

USE gravelines-6 reactor

### GRAVELINES SITE

2004-12-20

Gravelines, Nord, France.

BT1 reactor sites  
 RT gravelines-1 reactor  
 RT gravelines-2 reactor  
 RT gravelines-3 reactor  
 RT gravelines-4 reactor  
 RT gravelines-5 reactor  
 RT gravelines-6 reactor

### gravichem process

INIS: 2000-04-12; ETDE: 1980-06-23

*Desulfurization process in which coal is mixed with ferric sulfate, which oxidizes pyritic sulfur to elemental sulfur.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

### GRAVIMELT PROCESS

INIS: 2000-04-12; ETDE: 1980-08-25

*The chemical desulfurization of coal by reaction with an 80% molten caustic mixture with a 1:1 mole ratio of KOH and NaOH. The reaction occurs in a nickel reaction vessel at atmospheric pressure and 715 degrees F.*

\*BT1 desulfurization

### GRAVIMETRIC ANALYSIS

\*BT1 quantitative chemical analysis  
 NT1 thermal gravimetric analysis

**GRAVIMETRY**

1996-04-18

*For gravitation measurement only; see also GRAVIMETRIC ANALYSIS.*

- RT acceleration
- RT gravitation
- RT gravity surveys

**GRAVITATION**

- RT einstein effect
- RT general relativity theory
- RT gravimetry
- RT gravitational fields
- RT gravitational interactions
- RT gravitational lenses
- RT gravity waves
- RT kaluza-klein theory
- RT quantum gravity
- RT schwarzschild metric
- RT supergravity
- RT twistor theory
- RT unified-field theories
- RT weightlessness

**gravitational charges**

INIS: 1975-08-22; ETDE: 2002-06-13

- USE fundamental constants
- USE gravitons

**GRAVITATIONAL COLLAPSE**

- UF collapse (gravitational)
- RT black holes
- RT neutron stars
- RT schwarzschild radius
- RT star evolution

**GRAVITATIONAL FIELDS**

- UF fields (gravitational)
- NT1 kerr field
- RT einstein effect
- RT einstein field equations
- RT einstein-maxwell equations
- RT equivalence principle
- RT general relativity theory
- RT gravitation
- RT gravitational interactions
- RT gravitational lenses
- RT gravitational radiation
- RT mass
- RT metrics
- RT potentials
- RT quantum gravity
- RT roche equipotentials
- RT uniton
- RT weyl unified theory

**GRAVITATIONAL INSTABILITY**

2000-04-12

- \*BT1 plasma instability

**GRAVITATIONAL INTERACTIONS**

- \*BT1 basic interactions
- RT gravitation
- RT gravitational fields
- RT gravitational radiation
- RT gravitational waves

**GRAVITATIONAL LENSES**

INIS: 1983-02-04; ETDE: 1983-03-07

- BT1 lenses
- RT general relativity theory
- RT gravitation
- RT gravitational fields

**GRAVITATIONAL RADIATION**

- BT1 radiations
- NT1 gravitons
- RT general relativity theory
- RT gravitational fields
- RT gravitational interactions
- RT gravitational wave detectors

- RT gravitational waves

**GRAVITATIONAL WAVE DETECTORS**

INIS: 1976-03-02; ETDE: 1976-04-19

- \*BT1 radiation detectors
- RT gravitational radiation
- RT gravitational waves

**GRAVITATIONAL WAVES**

- RT einstein-maxwell equations
- RT gravitational interactions
- RT gravitational radiation
- RT gravitational wave detectors

**GRAVITONS**

- UF gravitational charges
- \*BT1 gravitational radiation
- \*BT1 massless particles
- \*BT1 postulated particles
- RT quantum gravity
- RT supergravity
- RT uniton

**GRAVITY LOGGING**

INIS: 1996-04-18; ETDE: 1977-01-28

- BT1 well logging
- RT gravity surveys

**GRAVITY SURVEYS**

1996-06-18

(Until April 1996 this concept was indexed to GEOPHYSICAL SURVEYS and GRAVIMETRY.)

- \*BT1 geophysical surveys
- RT geothermal exploration
- RT gravimetry
- RT gravity logging

**GRAVITY WAVES***Waves in an interface between fluids of different density in which the restoring force is gravity.*

- NT1 water waves
- NT2 tsunamis
- RT fluid mechanics
- RT gravitation

**gray**

INIS: 1997-06-05; ETDE: 1980-08-12

*See also RADIATION DOSES.*

- USE radiation dose units
- USE si units

**GRAY ENERGY**

2004-11-02

*Amount of energy consumed in the manufacture of a product or in providing a service.*

- UF grey energy
- SF energy content
- BT1 energy
- RT energy accounting

**GRAYWACKE**

- \*BT1 sandstones
- RT conglomerates

**GRAZING**

INIS: 1992-07-21; ETDE: 1979-10-03

*Feeding on growing herbage.*

- BT1 feeding
- RT domestic animals
- RT forage
- RT rangelands
- RT wild animals

**GRAZING INCIDENCE TOMOGRAPHY**

INIS: 1981-05-11; ETDE: 1981-06-13

- \*BT1 tomography

**GREASES**

- BT1 lubricants
- RT lubrication
- RT oils

**GREAT BASIN**

INIS: 1992-06-04; ETDE: 1978-04-06

*Area including Nevada, Western and Central Utah, Mohave county in Arizona, and the counties of Alpine, El Dorado, Inyo, Mono, and San Bernardino in California.*

- \*BT1 usa
- RT arizona
- RT california
- RT nevada
- RT utah

**great britain**

- USE united kingdom

**GREAT LAKES**

- \*BT1 lakes
- NT1 lake erie
- NT1 lake huron
- NT1 lake michigan
- NT1 lake ontario
- NT1 lake superior
- RT great lakes basin

**GREAT LAKES BASIN**

INIS: 1992-01-14; ETDE: 1978-06-14

- BT1 watersheds
- RT great lakes

**great lakes region**

INIS: 2000-04-12; ETDE: 1978-07-06

*(Prior to June 1982 this was a valid ETDE descriptor.)*

- USE usa

**great plains**

INIS: 2000-04-12; ETDE: 1978-09-13

*An area of land encompassing the eastern portions of Montana, Wyoming, Colorado, and New Mexico and the western portions of North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, and Texas. The area includes the southern provinces of Canada.*

- USE usa

**GREAT SALT LAKE**

INIS: 1992-06-04; ETDE: 1976-07-07

- \*BT1 lakes
- RT utah

**GREATER ANTILLES**

INIS: 1992-06-04; ETDE: 1980-02-11

- \*BT1 west indies
- NT1 cuba
- NT1 hispaniola
- NT2 dominican republic
- NT2 haiti
- NT1 jamaica
- NT1 puerto rico

**GREECE**

1995-04-03

- BT1 developing countries
- \*BT1 western europe
- RT oecd

**GREEK ORGANIZATIONS**

INIS: 1984-11-30; ETDE: 1984-12-27

- BT1 national organizations

**greek research reactor**

- USE democritus reactor

**greeley event**

1994-10-14

*A test made during OPERATION LATCHKEY.*

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**green energy**

2007-09-06

- SEE renewable energy sources

**GREEN FUNCTION**

- BT1 functions
- RT differential equations
- RT Sturm-Liouville equation

**green oil**

INIS: 2000-04-12; ETDE: 1976-04-19

- USE shale oil fractions

**GREEN RIVER FORMATION**

1997-06-19

- BT1 geologic formations
- NT1 mahogany zone
- NT1 Uinta formation
- RT Colorado
- RT oil shale deposits
- RT oil shales
- RT Piceance creek basin
- RT sand wash basin
- RT uranium deposits
- RT uranium ores
- RT Utah
- RT Washakie basin
- RT Wyoming

**GREEN ROOFS**

2007-05-11

*Roofs at least partially covered with vegetation and including supporting systems such as waterproofing, drainage systems, and growing mediums.*

- \*BT1 roofs

**GREENE COUNTY REACTOR**

INIS: 1976-10-29; ETDE: 1975-11-28

*Power Authority of the State of New York, USA. Canceled in 1979 before construction began.*

- \*BT1 pwr type reactors

**GREENHOUSE EFFECT**

INIS: 1999-05-05; ETDE: 1976-05-17

- UF global warming
- BT1 climatic change
- RT earth atmosphere
- RT greenhouse gases
- RT heat transfer
- RT Kyoto protocol
- RT reflection
- RT Rio Declaration
- RT trapping

**GREENHOUSE GASES**

INIS: 1992-04-29; ETDE: 1991-09-04

- RT air pollution
- RT atmospheric chemistry
- RT carbon dioxide
- RT carbon sequestration
- RT chlorofluorocarbons
- RT emissions tax
- RT emissions trading
- RT greenhouse effect
- RT Kyoto protocol
- RT methane
- RT nitrogen oxides

**GREENHOUSE PROJECT**

2000-04-07

- UF project greenhouse

- \*BT1 nuclear explosions

RT eniwetok

**GREENHOUSES**

1992-08-25

(Until August 1992, this concept was indexed by BUILDINGS.)

- BT1 buildings
- NT1 attached greenhouses
- RT agriculture
- RT horticulture
- RT hydroponic culture

**GREENLAND**

- BT1 islands
- RT arctic ocean
- RT arctic regions
- RT Denmark

**GREENWOOD-2 REACTOR***Detroit Edison Co., St. Clair County, Michigan, USA. Canceled in 1980 before construction began.*

- \*BT1 pwr type reactors

**GREENWOOD-3 REACTOR***Detroit Edison Co., St. Clair County, Michigan, USA. Canceled in 1980 before construction began.*

- \*BT1 pwr type reactors

**GREIFSWALD-1 REACTOR***Greifswald, Federal Republic of Germany.*

- UF Bruno Leuschner-1 reactor
- UF KKW Greifswald-1 reactor
- \*BT1 wwr type reactors

**GREIFSWALD-2 REACTOR***Greifswald, Federal Republic of Germany.*

- UF Bruno Leuschner-2 reactor
- UF KKW Greifswald-2 reactor
- \*BT1 wwr type reactors

**GREIFSWALD-3 REACTOR**

INIS: 1978-07-31; ETDE: 1978-09-11

*Greifswald, Federal Republic of Germany.*

- UF Bruno Leuschner-3 reactor
- UF KKW Greifswald-3 reactor
- \*BT1 wwr type reactors

**GREIFSWALD-4 REACTOR**

INIS: 1978-07-31; ETDE: 1978-09-11

*Greifswald, Federal Republic of Germany.*

- UF Bruno Leuschner-4 reactor
- UF KKW Greifswald-4 reactor
- \*BT1 wwr type reactors

**GREIFSWALD-5 REACTOR**

INIS: 1990-07-24; ETDE: 1990-08-06

*Greifswald, German Democratic Republic.*

- UF KKW Greifswald-5 reactor
- \*BT1 wwr type reactors

**GREIFSWALD-6 REACTOR**

INIS: 1990-07-24; ETDE: 1990-08-06

*Greifswald, German Democratic Republic.*

- UF KKW Greifswald-6 reactor
- \*BT1 wwr type reactors

**GRENADA**

1997-03-07

- \*BT1 Lesser Antilles

**GRENOBLE CYCLOTRON**

- \*BT1 isochronous cyclotrons

**GRENOBLE REACTOR**

- UF Franco-German high flux reactor
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors

**grenoble reactor melusine-1**

- USE melusine-1 reactor

**grenoble reactor melusine-2**

- USE siloette reactor

**greuling-goertzel approximation**

2000-04-12

*Treatment of neutron slowing-down which includes absorption.*

(Prior to January 1995, this was a valid ETDE descriptor.)

- SEE neutron slowing-down theory

**grey energy**

2004-11-02

- USE gray energy

**GRIBOV-LIPATOV RELATION**

- BT1 equations
- RT annihilation
- RT scattering
- RT structure functions

**GRIDS**

- BT1 electrodes
- RT battery paste

**grids (coordinates)**

- USE coordinates

**GRIGNARD REAGENTS**

- UF alkylmagnesium compounds
- UF arylmagnesium compounds
- \*BT1 magnesium compounds
- \*BT1 organometallic compounds

**grillo process**

2000-04-12

*A desulfurization process based on chemisorption of the acidic components of waste gas in which the absorbent consists of an oxide compound of magnesium oxide and magnesium dioxide.*

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**GRINDING***For grinding in the sense of pulverization, use COMMINATION.*

- BT1 comminution
- BT1 machining
- RT grinding machines
- RT honing
- RT wear

**GRINDING MACHINES**

- SF mullers
- \*BT1 machine tools
- RT grinding

**GROHNDE REACTOR**

INIS: 1976-07-19; ETDE: 1976-09-15

*Grohnde, Niedersachsen, Federal Republic of Germany.*

- \*BT1 pwr type reactors

**grom devices**

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor.)

- USE pinch devices

**GROMMET OPERATION**

INIS: 2000-04-12; ETDE: 1979-11-23

- \*BT1 nuclear explosions
- \*BT1 underground explosions
- RT contained explosions

**groningen (kvi) cyclotron**

INIS: 1983-06-01; ETDE: 1983-07-07

USE kvi cyclotron

**groningen versneller instituut**

INIS: 1977-09-06; ETDE: 1977-10-19

USE kvi

**GROSS DOMESTIC PRODUCT**

INIS: 1986-12-18; ETDE: 1978-02-14

*Sum of a nation's economic output measured in terms of expenditures for goods and services by consumers, government, business, and foreign countries.*

SF net material product  
 SF nmp(net material product)  
 RT economic development  
 RT gross national product  
 RT market  
 RT production

**GROSS NATIONAL PRODUCT**

INIS: 1986-12-18; ETDE: 1976-01-23

*Sum of a nation's economic output measured in terms of expenditures for goods and services by consumers, government, business, and foreign countries and the earnings from foreign investments.*

SF net material product  
 SF nmp(net material product)  
 RT domestic supplies  
 RT economic development  
 RT economics  
 RT economy  
 RT gross domestic product  
 RT market  
 RT production

**gross-neveu model**

INIS: 1982-01-13; ETDE: 1982-02-09

USE lagrangian field theory

**grosswelzheim hdr reactor**

USE hdr reactor

**grosswelzheim pr-10 reactor**

USE aeg-pr-10 reactor

**ground control**

INIS: 2000-04-12; ETDE: 1978-05-03

USE strata control

**GROUND COVER**

INIS: 1981-11-26; ETDE: 1978-09-11

*Vegetation or other means for ensuring soil stability, usually in connection with buried wastes.*

RT canopies  
 RT crops  
 RT erosion  
 RT forests  
 RT gramineae  
 RT plants  
 RT revegetation  
 RT underground disposal  
 RT water pollution abatement

**GROUND DISPOSAL**

INIS: 1982-12-06; ETDE: 1978-08-08

*For disposal of wastes near the earth's surface, e.g. in trenches.*

UF land application  
 UF shallow land burial  
 SF waste burial  
 \*BT1 waste disposal  
 RT liquid wastes  
 RT radioactive wastes  
 RT sanitary landfills  
 RT sewage sludge  
 RT solid wastes  
 RT underground disposal

**ground-effect machines**

INIS: 2000-04-12; ETDE: 1977-08-09

USE air cushion vehicles

**ground experimental engine experiment**

2000-04-12

USE xe-prime reactor

**ground experimental engine experiment-2**

2000-04-12

USE xe-2 reactor

**GROUND LEVEL**

BT1 levels

**GROUND MOTION**

(From September 1979 till February 1997

DISPLACEMENT RATES was a valid ETDE descriptor.)

UF displacements (seismic)  
 SF displacement rates  
 BT1 motion  
 RT earthquakes  
 RT ground subsidence  
 RT ground uplift  
 RT landslides  
 RT nuclear explosions  
 RT seismic detectors  
 RT seismic effects  
 RT seismic events  
 RT seismic waves  
 RT seismographs  
 RT seismology  
 RT shock waves  
 RT slope stability  
 RT soil-structure interactions  
 RT strata movement  
 RT underground explosions

**GROUND RELEASE**

*Release of gaseous effluents at ground level.*

\*BT1 waste disposal  
 RT gaseous wastes  
 RT radioactive waste disposal  
 RT stack disposal

**GROUND SOURCE HEAT PUMPS**

INIS: 2000-05-02; ETDE: 1980-01-24

BT1 heat pumps  
 RT air conditioning  
 RT solar-assisted heat pumps  
 RT space heating

**GROUND STATES**

BT1 energy levels

**GROUND SUBSIDENCE**

1982-07-22

*Gradual sinking of the ground surface, e.g. due to collapse of an underground cavity.*

UF subsidence (ground)  
 RT ground motion

**ground truth**

INIS: 2000-04-12; ETDE: 1980-04-14

*Data obtained on the ground concerning the significance of anomalies observed in remote sensing to help interpretation.*

(Prior to March 1996 this was a valid ETDE descriptor.)

USE ground truth measurements

**GROUND TRUTH MEASUREMENTS**

1996-04-18

*Data obtained on the ground concerning the significance of anomalies observed in remote sensing to help interpretation.*

(From April 1980 until March 1996

GROUND TRUTH was used for this concept in ETDE.)

UF ground truth  
 RT data analysis  
 RT geochemical surveys  
 RT geophysical surveys  
 RT remote sensing

**GROUND UPLIFT**

INIS: 2000-04-12; ETDE: 1979-04-11

*Process of elevating a part of the earth's surface.*

RT geodetic surveys  
 RT ground motion  
 RT strata movement  
 RT tectonics

**GROUND WATER**

(From January 1975 till March 1997

METEORIC WATER was a valid ETDE descriptor.)

UF meteoric water  
 \*BT1 water  
 NT1 interstitial water  
 NT1 magmatic water  
 RT alluvial deposits  
 RT aquicludes  
 RT aquifers  
 RT artesian basins  
 RT atmospheric precipitations  
 RT clays  
 RT drawdown  
 RT fluid withdrawal  
 RT geysers  
 RT groundwater recharge  
 RT hydraulic conductivity  
 RT hydrology  
 RT leachates  
 RT liquid wastes  
 RT radionuclide migration  
 RT reservoir pressure  
 RT rock-fluid interactions  
 RT soil mechanics  
 RT soils  
 RT surface waters  
 RT underground  
 RT water influx  
 RT water resources  
 RT water springs  
 RT water tables

**ground-water reserves**

INIS: 2000-04-12; ETDE: 1976-03-31

USE aquifers

**ground water withdrawal**

INIS: 2000-04-12; ETDE: 1975-11-11

USE fluid withdrawal

**groundnuts**

Arachis hypogaea.

USE peanuts

**grounds**

2000-04-12

USE electric grounds

**grounds (electric)**

INIS: 1982-06-09; ETDE: 1982-07-08

USE electric grounds



**GROUNDWATER RECHARGE**

INIS: 1995-04-13; ETDE: 1995-05-09

The processes involved in the adsorption and addition of water to the zone of saturation.

SF recharge

RT ground water

**GROUP CONSTANTS**

BT1 cross sections

RT energy range

RT energy spectra

RT multigroup theory

**group *iva* metal compounds**

INIS: 1984-04-04; ETDE: 2002-06-13

USE transition element compounds

**GROUP THEORY**

1997-08-20

For mathematical groups only; for neutron-energy groups use MULTIGROUP THEORY.

BT1 mathematics

RT clebsch-gordan coefficients

RT clifford algebra

RT galilei transformations

RT irreducible representations

RT nonunitary representations

RT periodicity

RT quantum groups

RT r matrix

RT racah coefficients

RT space groups

RT supersymmetry

RT symmetry groups

RT wigner coefficients

RT young diagram

**group *va* metal compounds**

INIS: 1984-04-04; ETDE: 2002-06-13

USE transition element compounds

**group *via* metal compounds**

INIS: 1984-04-04; ETDE: 2002-06-13

USE transition element compounds

**groups (space)**

USE space groups

**GROUTING**

INIS: 1981-02-27; ETDE: 1977-03-08

UF grouts

RT bonding

RT cementing

RT cements

RT fillers

RT mortars

RT plugging

RT sealing materials

RT seals

RT stemming materials

RT well completion

**grouts**

INIS: 1984-04-04; ETDE: 2002-06-13

USE grouting

**GROWTH**

UF cell growth (animal)

UF cell growth (plant)

UF growth inhibition

UF growth stimulation

NT1 animal growth

NT1 plant growth

RT age dependence

RT augmentation

RT biological regeneration

RT life cycle

RT metabolism

RT physiology

RT population dynamics

RT ripening

RT sth

RT teratogenesis

RT viability

**growth (bubble)**

INIS: 2000-04-12; ETDE: 1980-11-08

USE bubble growth

**growth (crystal)**

USE crystal growth

**growth (economic)**

INIS: 2000-04-12; ETDE: 1977-10-19

USE economic development

**growth (grain)**

USE grain growth

**GROWTH FACTORS**

INIS: 1999-09-08; ETDE: 1987-08-14

Tissue specific proteins released by a cell which act on neighboring cells to stimulate their replication.

BT1 mitogens

\*BT1 proteins

NT1 lymphokines

NT2 interferon

RT cell differentiation

RT cell proliferation

RT erythropoietin

RT oncogenes

RT ontogenesis

RT peptide hormones

**growth hormone**

USE sth

**growth hormone-release inhibiting factor**

INIS: 2000-04-12; ETDE: 1979-02-05

USE somatostatin

**growth inhibition**

If possible, use a more specific term for growth.

USE growth

USE inhibition

**growth rings**

INIS: 1993-06-03; ETDE: 2002-06-13

SEE tree rings

**growth stimulation**

USE growth

USE stimulation

**grr reactor**

USE democritus reactor

**grs**

INIS: 1977-09-06; ETDE: 1977-10-19

USE gesellschaft fuer anlagen- und reaktorsicherheit

**GRUENEISEN CONSTANT**

RT compressibility

RT specific heat

RT thermal expansion

**GRUENEISEN FORMULA**

RT electric conductivity

RT metals

**gs process**

ETDE: 1975-09-11

USE dual temperature process

**gsd**

USE genetically significant dose

**GTP-ASES**

INIS: 2000-04-12; ETDE: 1988-05-23

UF g-proteins

\*BT1 acid anhydases

RT membrane proteins

RT oncogenes

**GTR REACTOR**

General Dynamics--Convair/U.S. Air Force, Fort Worth, Texas, USA.

UF fort worth gtr reactor

\*BT1 pool type reactors

\*BT1 test reactors

**GTRR REACTOR**

Georgia Institute of Technology, Atlanta, Georgia, USA. Shut down in 1988.

UF georgia tech. research reactor

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 training reactors

**GUAM**

INIS: 1992-06-09; ETDE: 1978-02-14

\*BT1 mariana islands

**guanethidine**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE carbonic acid derivatives

USE heterocyclic compounds

USE organic nitrogen compounds

**GUANIDINES**

INIS: 1996-10-23; ETDE: 1976-11-17

UF iminourea

\*BT1 carbonic acid derivatives

\*BT1 organic nitrogen compounds

NT1 mibg

RT amides

RT creatine

RT imines

RT mercaptoethylguanidine

**guanidylaminovaleric acid**

USE arginine

**GUANINE**

UF aminohypoxanthine

\*BT1 amines

\*BT1 hydroxy compounds

\*BT1 purines

RT guanosine

RT guanylic acid

**GUANOSINE**

\*BT1 nucleosides

\*BT1 purines

RT guanine

RT guanylic acid

**GUANYLIC ACID**

\*BT1 nucleotides

RT guanine

RT guanosine

**guard logging**

INIS: 2000-06-27; ETDE: 1979-05-02

USE resistivity logging

**guards**

INIS: 1983-06-30; ETDE: 1981-01-27

USE security personnel

**GUATEMALA**

\*BT1 central america

BT1 developing countries

**GUAYULE**

INIS: 2000-04-12; ETDE: 1980-01-15

UF *parthenium argentatum*

\*BT1 rubber trees

RT natural rubber

**guidance (electronic)**

USE electronic guidance

**GUIDE TUBES**

INIS: 1986-02-28; ETDE: 1990-11-20

*Tubes which are a part of a reactor core and serve as guides for control rods or monitoring instruments.*

BT1 tubes

RT control elements

RT fuel assemblies

**guidelines**

USE recommendations

**guides (shaft)**

INIS: 2000-04-12; ETDE: 1983-05-21

USE shaft guides

**GUIDING-CENTER APPROXIMATION**

\*BT1 approximations

RT charged particles

RT magnetic fields

RT motion

RT plasma

RT rotation

**GUILLEMINITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 uranium minerals

RT selenium oxides

RT uranium oxides

**GUINEA**

INIS: 1992-06-04; ETDE: 1980-08-12

BT1 africa

RT niger river

**GUINEA PIGS**

\*BT1 rodents

**GUINIER-PRESTON ZONES**

BT1 zones

RT crystal structure

RT phase transformations

RT segregation

**gulf coast**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to January 1992 this was a valid ETDE descriptor.)

USE us gulf coast

**gulf general atomic fast breeder reactor**

1993-11-08

USE gcfr reactor

**gulf general atomic triga-mk-3**

USE gulf triga-mk-3 reactor

**GULF HDS PROCESS**

INIS: 2000-04-12; ETDE: 1982-05-12

*Fix-bed catalytic hydrogenation process.*

*Primary reactions are desulfurization,*

*demetallization, denitrogenation, and*

*upgrading of asphaltenes.*

\*BT1 desulfurization

\*BT1 hydrogenation

\*BT1 refining

**GULF OF ALASKA**

INIS: 1992-06-04; ETDE: 1976-04-19

UF *cook inlet*

\*BT1 pacific ocean

**GULF OF CALIFORNIA**

INIS: 1992-06-04; ETDE: 1975-11-11

\*BT1 pacific ocean

**GULF OF MAINE**

1975-12-09

\*BT1 atlantic ocean

RT massachusetts

RT new hampshire

**GULF OF MEXICO**

1997-06-17

\*BT1 caribbean sea

NT1 galveston bay

NT1 san antonio bay

RT us gulf coast

**GULF OF SUEZ**

INIS: 1992-06-04; ETDE: 1976-01-07

\*BT1 red sea

**GULF STREAM**

INIS: 1992-02-18; ETDE: 1977-06-21

UF *florida current*

\*BT1 water currents

RT atlantic ocean

RT mid-atlantic bight

**GULF TRIGA-MK-3 REACTOR**

*Gulf General Atomics, San Diego, California,*

*USA. Shut down in 1975; decommissioned.*

UF *gulf general atomic triga-mk-3*

UF *triga-3-gulf reactor*

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 training reactors

\*BT1 triga type reactors

**GUM ACACIA**

UF *gum arabic*

\*BT1 polysaccharides

RT arabinose

**gum arabic**

USE gum acacia

**gummite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE oxide minerals

USE uranium minerals

**GUMS**

2000-04-12

RT colloids

**gun cotton**

USE nitrocellulose

**gundremmingen-1 reactor**

INIS: 1975-08-20; ETDE: 2002-06-13

USE rwe-bayernwerk reactor

**GUNDREMMINGEN-2 REACTOR**

1975-08-20

UF *krb ii-b reactor*

UF *rwe-bayernwerk-b reactor*

\*BT1 bwr type reactors

**GUNDREMMINGEN-3 REACTOR**

1975-08-20

UF *krb ii-c reactor*

UF *rwe-bayernwerk-c reactor*

\*BT1 bwr type reactors

**gundremminger krb reactor**

INIS: 2000-04-12; ETDE: 1975-08-19

USE rwe-bayernwerk reactor

**GUNNISON RIVER**

\*BT1 rivers

RT colorado

**GUNS**

1976-05-05

RT ammunition

RT armor

RT explosives

RT projectiles

**guns (electron)**

INIS: 1978-04-21; ETDE: 2002-06-13

USE electron guns

**guns (plasma)**

INIS: 1978-04-21; ETDE: 2002-06-13

USE plasma guns

**GUYANA**

INIS: 1999-05-05; ETDE: 1981-10-24

*Formerly British Guiana; achieved independence in 1966.*

UF *british guiana*

BT1 developing countries

\*BT1 south america

**gymnosperms**

INIS: 2000-04-12; ETDE: 1989-01-09

USE pinophyta

**GYNECOLOGY**

*Including obstetrics.*

UF *obstetrics*

BT1 medicine

RT female genitals

RT pregnancy

RT urogenital system diseases

RT women

**GYPSUM**

\*BT1 sulfate minerals

RT anhydrite

RT calcium sulfates

**GYPSUM CEMENTS**

UF *plaster of paris*

\*BT1 cements

**gypsy moth**

USE lymantria dispar

**GYROCONS**

INIS: 1981-03-10; ETDE: 1979-05-25

*Electron tubes operating by deflection modulation.*

BT1 electron tubes

RT klystrons

RT power supplies

RT rf systems

**gyroelectric ratio**

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE angular momentum

SEE electric moments

**GYROFREQUENCY**

UF *frequency (gyro)*

RT cyclotron frequency

**gyromagnetic radius**

USE larmor radius

**GYROMAGNETIC RATIO**

UF *g factor (gyromagnetic ratio)*

RT angular momentum

RT magnetic moments

**GYROSCOPES**

RT measuring instruments

RT precession

RT rotation

**gyrotrons**

INIS: 1995-06-14; ETDE: 1978-04-06  
USE microwave amplifiers

**H-1 HELIAC**

INIS: 1995-09-14; ETDE: 1990-05-16  
\*BT1 heliac stellarators  
RT sheila heliac

**h-2050 resonances**

INIS: 1987-12-21; ETDE: 1976-11-01  
(Prior to December 1987 this was a valid descriptor.)  
USE f4-2050 mesons

**h-alpha line**

USE balmer lines

**h-beta line**

USE balmer lines

**H CENTERS**

\*BT1 color centers

**H-COAL PROCESS**

2000-04-12  
*Hydrocarbon Research, Inc. process for the direct catalytic conversion of whole coal to synthetic crude oil at moderate temperature (950 degrees F) and high pressure (2250-2700 psig).*  
\*BT1 coal liquefaction

**H CODES**

BT1 computer codes

**h-gamma line**

USE balmer lines

**H-MODE PLASMA CONFINEMENT**

INIS: 1996-04-16; ETDE: 1989-10-26  
*An operational regime in neutral-beam-injection-heated divertor tokamaks.*  
\*BT1 magnetic confinement  
RT confinement time  
RT divertors  
RT edge localized modes  
RT l-mode plasma confinement  
RT tokamak devices

**H-OIL PROCESS**

2000-04-12  
*Method of hydrogenation to upgrade oil shale.*  
RT oil sands  
RT oil shales

**H THEOREM**

RT boltzmann statistics  
RT entropy

**H1-1170 MESONS**

1995-08-07  
(Until July 1995 this concept was indexed by H1-1190 MESONS.)  
UF h1-1190 mesons  
\*BT1 axial vector mesons

**h1-1190 mesons**

INIS: 1995-08-07; ETDE: 1988-01-28  
(Until July 1995 this was a valid term.)  
USE h1-1170 mesons

**H1 REGIONS**

BT1 cosmic radio sources  
RT hydrogen

**H2 REGIONS**

BT1 cosmic radio sources  
RT hydrogen ions I plus  
RT nebulae

**haag-araki field theory**

INIS: 1977-11-21; ETDE: 1978-03-08  
USE algebraic field theory

**HAAG THEOREM**

RT phi4-field theory  
RT quantum field theory

**HABIT PLANES**

RT crystal lattices  
RT phase transformations

**HABITAT**

INIS: 1991-08-12; ETDE: 1976-11-01  
*The area or type of environment in which a plant or animal normally occurs or lives.*  
RT environment  
RT nests

**habrobracon**

1997-01-28  
(Until October 1996 this was a valid descriptor.)  
USE wasps

**HACHIMANTAI**

INIS: 2000-04-12; ETDE: 1978-04-05  
\*BT1 japan  
RT matsukawa geothermal field  
RT onuma geothermal field  
RT takinoue geothermal field  
RT volcanic regions

**haddam neck reactor**

USE connecticut yankee reactor

**HADES UNDERGROUND RESEARCH FACILITY**

2005-03-18  
*Experimental site for disposal of high-level radioactive waste in boom clay formation at Mol, Belgium.*  
\*BT1 radioactive waste facilities  
BT1 underground facilities  
RT boom clay

**HADRON-HADRON INTERACTIONS**

\*BT1 particle interactions  
NT1 baryon-baryon interactions  
NT2 hyperon-hyperon interactions  
NT2 nucleon-antinucleon interactions  
NT3 antiproton-neutron interactions  
NT3 neutron-antineutron interactions  
NT3 proton-antineutron interactions  
NT3 proton-antiproton interactions  
NT2 nucleon-hyperon interactions  
NT2 nucleon-nucleon interactions  
NT3 neutron-neutron interactions  
NT3 proton-nucleon interactions  
NT4 proton-neutron interactions  
NT4 proton-proton interactions  
NT1 meson-baryon interactions  
NT2 meson-hyperon interactions  
NT3 kaon-hyperon interactions  
NT3 pion-hyperon interactions  
NT2 meson-nucleon interactions  
NT3 kaon-nucleon interactions  
NT4 kaon-neutron interactions  
NT5 kaon minus-neutron interactions  
NT5 kaon neutral-neutron interactions  
NT5 kaon plus-neutron interactions  
NT4 kaon-proton interactions  
NT5 kaon minus-proton interactions  
NT5 kaon neutral-proton interactions  
NT5 kaon plus-proton interactions  
NT3 pion-nucleon interactions  
NT4 pion-neutron interactions

NT5 pion minus-neutron interactions  
NT5 pion plus-neutron interactions  
NT4 pion-proton interactions  
NT5 pion minus-proton interactions  
NT5 pion plus-proton interactions  
NT1 meson-meson interactions  
NT2 kaon-kaon interactions  
NT2 pion-kaon interactions  
NT2 pion-pion interactions  
RT electromagnetic interactions  
RT strong interactions

**HADRON REACTIONS**

BT1 nuclear reactions  
NT1 baryon reactions  
NT2 hyperon reactions  
NT2 nucleon reactions  
NT3 antinucleon reactions  
NT4 antineutron reactions  
NT4 antiproton reactions  
NT3 neutron reactions  
NT4 fast fission  
NT4 thermal fission  
NT3 proton reactions  
NT1 meson reactions  
NT2 kaon reactions  
NT3 kaon minus reactions  
NT3 kaon neutral reactions  
NT3 kaon plus reactions  
NT2 pion reactions  
NT3 pion minus reactions  
NT3 pion plus reactions  
RT space-time model

**HADRONIC ATOMS**

*Atoms with a hadron such as an antiproton or a sigma-minus particle bound in atomic orbits.*  
UF antiprotonic atoms  
UF exotic atoms  
UF sigma-minus atoms  
BT1 atoms  
NT1 mesic atoms  
NT2 kaonic atoms  
NT2 pionic atoms  
NT1 protonium

**hadronic clusters**

INIS: 2000-04-12; ETDE: 1978-06-14  
USE cluster emission model

**HADRONIC PARTICLE DECAY**

INIS: 1978-02-23; ETDE: 1978-04-28  
*Particle decay due to hadronic interaction.*  
\*BT1 particle decay  
RT strong interactions

**HADRONS**

BT1 elementary particles  
NT1 baryons  
NT2 antibaryons  
NT3 antihyperons  
NT4 antilambda particles  
NT4 antiomega particles  
NT4 antisigma particles  
NT4 antixi particles  
NT3 antinucleons  
NT4 antineutrons  
NT4 antiprotons  
NT2 beauty baryons  
NT3 lambda b neutral baryons  
NT2 charmed baryons  
NT3 lambda c-2625 baryons  
NT3 lambda c plus baryons  
NT3 omega c neutral baryons  
NT3 sigma c-2455 baryons  
NT3 xi c neutral baryons  
NT3 xi c plus baryons  
NT2 dibaryons  
NT3 dineutrons

- NT3** diprotons  
**NT3** lambda-n-2130 dibaryons  
**NT3** nn-2170 dibaryons  
**NT3** nn-2250 dibaryons  
**NT2** hyperons  
**NT3** antihyperons  
**NT4** antilambda particles  
**NT4** antiomega particles  
**NT4** antisigma particles  
**NT4** antixi particles  
**NT3** lambda baryons  
**NT4** lambda-1405 baryons  
**NT4** lambda-1520 baryons  
**NT4** lambda-1600 baryons  
**NT4** lambda-1670 baryons  
**NT4** lambda-1690 baryons  
**NT4** lambda-1800 baryons  
**NT4** lambda-1810 baryons  
**NT4** lambda-1820 baryons  
**NT4** lambda-1830 baryons  
**NT4** lambda-1890 baryons  
**NT4** lambda-2100 baryons  
**NT4** lambda-2110 baryons  
**NT4** lambda particles  
**NT5** antilambda particles  
**NT3** lambda-n-2130 dibaryons  
**NT3** omega baryons  
**NT4** omega-2250 baryons  
**NT4** omega particles  
**NT5** antiomega particles  
**NT5** omega minus particles  
**NT3** sigma baryons  
**NT4** sigma-1385 baryons  
**NT4** sigma-1660 baryons  
**NT4** sigma-1670 baryons  
**NT4** sigma-1750 baryons  
**NT4** sigma-1770 baryons  
**NT4** sigma-1775 baryons  
**NT4** sigma-1915 baryons  
**NT4** sigma-1940 baryons  
**NT4** sigma-2030 baryons  
**NT4** sigma-2455 baryons  
**NT4** sigma particles  
**NT5** antisigma particles  
**NT5** sigma minus particles  
**NT5** sigma neutral particles  
**NT5** sigma plus particles  
**NT3** xi baryons  
**NT4** xi-1530 baryons  
**NT4** xi-1690 baryons  
**NT4** xi-1820 baryons  
**NT4** xi-1950 baryons  
**NT4** xi-2030 baryons  
**NT4** xi-2250 baryons  
**NT4** xi-2500 baryons  
**NT4** xi particles  
**NT5** antixi particles  
**NT5** xi minus particles  
**NT5** xi neutral particles  
**NT3** z\*baryons  
**NT2** n\*baryons  
**NT3** delta baryons  
**NT4** delta-1232 baryons  
**NT4** delta-1600 baryons  
**NT4** delta-1620 baryons  
**NT4** delta-1700 baryons  
**NT4** delta-1900 baryons  
**NT4** delta-1905 baryons  
**NT4** delta-1910 baryons  
**NT4** delta-1920 baryons  
**NT4** delta-1930 baryons  
**NT4** delta-1950 baryons  
**NT4** delta-2000 baryons  
**NT4** delta-2150 baryons  
**NT4** delta-2200 baryons  
**NT4** delta-2400 baryons  
**NT4** delta-2420 baryons  
**NT4** delta-3000 baryons  
**NT3** n baryons  
**NT4** n-1440 baryons  
**NT4** n-1520 baryons  
**NT4** n-1535 baryons  
**NT4** n-1650 baryons  
**NT4** n-1675 baryons  
**NT4** n-1680 baryons  
**NT4** n-1700 baryons  
**NT4** n-1710 baryons  
**NT4** n-1720 baryons  
**NT4** n-1960 baryons  
**NT4** n-1990 baryons  
**NT4** n-2000 baryons  
**NT4** n-2080 baryons  
**NT4** n-2100 baryons  
**NT4** n-2190 baryons  
**NT4** n-2250 baryons  
**NT4** n-3000 baryons  
**NT2** nucleons  
**NT3** antinucleons  
**NT4** antineutrons  
**NT4** antiprotons  
**NT3** neutrons  
**NT4** antineutrons  
**NT4** beta-delayed neutrons  
**NT4** cold neutrons  
**NT5** ultracold neutrons  
**NT4** cosmic neutrons  
**NT4** epithermal neutrons  
**NT4** fast neutrons  
**NT4** fission neutrons  
**NT5** delayed neutrons  
**NT5** prompt neutrons  
**NT4** intermediate neutrons  
**NT4** photoneutrons  
**NT4** pile neutrons  
**NT4** polynucleons  
**NT5** dineutrons  
**NT5** tetra-neutrons  
**NT5** trineutrons  
**NT4** resonance neutrons  
**NT4** slow neutrons  
**NT4** solar neutrons  
**NT4** thermal neutrons  
**NT3** photonucleons  
**NT4** photoneutrons  
**NT4** photoprotons  
**NT3** protons  
**NT4** antiprotons  
**NT4** cosmic protons  
**NT4** delayed protons  
**NT4** diprotons  
**NT4** photoprotons  
**NT4** prompt protons  
**NT4** solar protons  
**NT4** trapped protons  
**NT1** mesons  
**NT2** antimesons  
**NT3** pseudoscalar antimesons  
**NT4** anti-b neutral mesons  
**NT4** anti-d neutral mesons  
**NT2** axial vector mesons  
**NT3** a1-1260 mesons  
**NT3** b1-1235 mesons  
**NT3** chi b1-9890 mesons  
**NT3** chi1-3510 mesons  
**NT3** d s-2536 mesons  
**NT3** d1-2420 mesons  
**NT3** f1-1285 mesons  
**NT3** f1-1420 mesons  
**NT3** f1-1510 mesons  
**NT3** h1-1170 mesons  
**NT3** k1-1270 mesons  
**NT3** k1-1400 mesons  
**NT2** baryonium  
**NT2** beauty mesons  
**NT3** b c mesons  
**NT3** b mesons  
**NT4** b minus mesons  
**NT4** b neutral mesons  
**NT5** anti-b neutral mesons  
**NT4** b plus mesons  
**NT3** b s mesons  
**NT3** d mesons  
**NT4** d minus mesons  
**NT4** d neutral mesons  
**NT5** anti-d neutral mesons  
**NT4** d plus mesons  
**NT3** d s mesons  
**NT3** eta-1295 mesons  
**NT3** eta-1440 mesons  
**NT3** eta c-2980 mesons  
**NT3** eta mesons  
**NT3** eta prime-958 mesons  
**NT3** k-1460 mesons  
**NT3** k-1830 mesons  
**NT3** kaons  
**NT4** antikaons  
**NT5** antikaons neutral  
**NT4** cosmic kaons  
**NT4** kaons minus  
**NT4** kaons neutral  
**NT5** antikaons neutral  
**NT5** kaons neutral long-lived  
**NT5** kaons neutral short-lived  
**NT4** kaons plus  
**NT3** pi-1300 mesons  
**NT3** pi-1770 mesons  
**NT5** anti-b neutral mesons  
**NT4** b plus mesons  
**NT3** b s mesons  
**NT3** b\*-5325 mesons  
**NT2** bottomonium  
**NT3** chi b0-10235 mesons  
**NT3** chi b0-9860 mesons  
**NT3** chi b1-10255 mesons  
**NT3** chi b1-9890 mesons  
**NT3** chi b2-10270 mesons  
**NT3** chi b2-9915 mesons  
**NT3** upsilon-10023 mesons  
**NT3** upsilon-10355 mesons  
**NT3** upsilon-10580 mesons  
**NT3** upsilon-10860 mesons  
**NT3** upsilon-11020 mesons  
**NT3** upsilon-9460 mesons  
**NT2** charmed mesons  
**NT3** b c mesons  
**NT3** d mesons  
**NT4** d minus mesons  
**NT4** d neutral mesons  
**NT5** anti-d neutral mesons  
**NT4** d plus mesons  
**NT3** d s-2536 mesons  
**NT3** d s mesons  
**NT3** d\*-2010 mesons  
**NT3** d\*2-2460 mesons  
**NT3** d\*s-2110 mesons  
**NT3** d1-2420 mesons  
**NT2** charmonium  
**NT3** chi0-3415 mesons  
**NT3** chi1-3510 mesons  
**NT3** chi2-3555 mesons  
**NT3** eta c-2980 mesons  
**NT3** eta c-3590 mesons  
**NT3** j psi-3097 mesons  
**NT3** psi-3685 mesons  
**NT3** psi-3770 mesons  
**NT3** psi-4040 mesons  
**NT3** psi-4160 mesons  
**NT3** psi-4415 mesons  
**NT2** phi mesons  
**NT3** phi-1020 mesons  
**NT3** phi-1680 mesons  
**NT3** phi3-1850 mesons  
**NT2** pseudoscalar mesons  
**NT3** b c mesons  
**NT3** b mesons  
**NT4** b minus mesons  
**NT4** b neutral mesons  
**NT5** anti-b neutral mesons  
**NT4** b plus mesons  
**NT3** b s mesons  
**NT3** d mesons  
**NT4** d minus mesons  
**NT4** d neutral mesons  
**NT5** anti-d neutral mesons  
**NT4** d plus mesons  
**NT3** d s mesons  
**NT3** eta-1295 mesons  
**NT3** eta-1440 mesons  
**NT3** eta c-2980 mesons  
**NT3** eta mesons  
**NT3** eta prime-958 mesons  
**NT3** k-1460 mesons  
**NT3** k-1830 mesons  
**NT3** kaons  
**NT4** antikaons  
**NT5** antikaons neutral  
**NT4** cosmic kaons  
**NT4** kaons minus  
**NT4** kaons neutral  
**NT5** antikaons neutral  
**NT5** kaons neutral long-lived  
**NT5** kaons neutral short-lived  
**NT4** kaons plus  
**NT3** pi-1300 mesons  
**NT3** pi-1770 mesons

**NT3** pions  
**NT4** cosmic pions  
**NT4** pions minus  
**NT4** pions neutral  
**NT4** pions plus  
**NT3** pseudoscalar antimesons  
**NT4** anti-b neutral mesons  
**NT4** anti-d neutral mesons  
**NT2** scalar mesons  
**NT3** a0-980 mesons  
**NT3** chi0-3415 mesons  
**NT3** f0-1240 mesons  
**NT3** f0-1300 mesons  
**NT3** f0-1590 mesons  
**NT3** f0-1730 mesons  
**NT3** f0-980 mesons  
**NT3** k\*0-1430 mesons  
**NT2** strange mesons  
**NT3** b s mesons  
**NT3** d s-2536 mesons  
**NT3** d s mesons  
**NT3** d\*s-2110 mesons  
**NT3** k-1460 mesons  
**NT3** k-1830 mesons  
**NT3** k\*-1410 mesons  
**NT3** k\*-1680 mesons  
**NT3** k\*-892 mesons  
**NT3** k\*0-1430 mesons  
**NT3** k\*2-1430 mesons  
**NT3** k\*3-1780 mesons  
**NT3** k\*4-2045 mesons  
**NT3** k1-1270 mesons  
**NT3** k1-1400 mesons  
**NT3** k2-1770 mesons  
**NT3** k2-1820 mesons  
**NT3** kaons  
**NT4** antikaons  
**NT5** antikaons neutral  
**NT4** cosmic kaons  
**NT4** kaons minus  
**NT4** kaons neutral  
**NT5** antikaons neutral  
**NT5** kaons neutral long-lived  
**NT5** kaons neutral short-lived  
**NT4** kaons plus  
**NT2** strangeonium  
**NT3** f2 prime-1525 mesons  
**NT2** tensor mesons  
**NT3** a2-1320 mesons  
**NT3** a4-2040 mesons  
**NT3** a6-2450 mesons  
**NT3** chi b2-9915 mesons  
**NT3** chi2-3555 mesons  
**NT3** d\*2-2460 mesons  
**NT3** f2-1270 mesons  
**NT3** f2-1430 mesons  
**NT3** f2-1720 mesons  
**NT3** f2-1810 mesons  
**NT3** f2-2010 mesons  
**NT3** f2-2300 mesons  
**NT3** f2-2340 mesons  
**NT3** f2 prime-1525 mesons  
**NT3** f4-2050 mesons  
**NT3** f4-2300 mesons  
**NT3** f6-2510 mesons  
**NT3** k\*2-1430 mesons  
**NT3** k\*3-1780 mesons  
**NT3** k\*4-2045 mesons  
**NT3** k2-1770 mesons  
**NT3** k2-1820 mesons  
**NT3** omega3-1670 mesons  
**NT3** phi3-1850 mesons  
**NT3** pi2-1670 mesons  
**NT3** pi2-2100 mesons  
**NT3** rho3-1690 mesons  
**NT3** rho3-2250 mesons  
**NT3** rho5-2350 mesons  
**NT2** toponium  
**NT2** vector mesons

**NT3** b\*-5325 mesons  
**NT3** d\*-2010 mesons  
**NT3** j psi-3097 mesons  
**NT3** k\*-1410 mesons  
**NT3** k\*-1680 mesons  
**NT3** k\*-892 mesons  
**NT3** omega-1420 mesons  
**NT3** omega-1600 mesons  
**NT3** omega-782 mesons  
**NT3** phi-1020 mesons  
**NT3** phi-1680 mesons  
**NT3** psi-3685 mesons  
**NT3** psi-3770 mesons  
**NT3** psi-4040 mesons  
**NT3** psi-4160 mesons  
**NT3** psi-4415 mesons  
**NT3** rho-1450 mesons  
**NT3** rho-1700 mesons  
**NT3** rho-2150 mesons  
**NT3** rho-770 mesons  
**NT3** upsilon-10023 mesons  
**NT3** upsilon-10355 mesons  
**NT3** upsilon-10580 mesons  
**NT3** upsilon-10860 mesons  
**NT3** upsilon-11020 mesons  
**NT3** upsilon-9460 mesons  
**NT2** x-1700 mesons  
**NT2** x-1935 mesons  
**NT2** x-2220 mesons  
**NT2** x-3075 mesons  
**NT1** resonance particles  
**NT2** exotic resonances  
*RT* centauro-type events  
*RT* charm particles  
*RT* cim model  
*RT* melosh transformation

### haem dehydrogenases

*INIS: 2000-04-12; ETDE: 1981-01-12*

*Code number 1.9.*

(Prior to February 1997 this was a valid ETDE descriptor.)

USE oxidoreductases

### HAEMOPHILUS

*UF hemophilus*

\*BT1 bacteria

### HAFNATES

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 hafnium compounds

BT1 oxygen compounds

*RT* hafnium oxides

### HAFNIUM

\*BT1 refractory metals

\*BT1 transition elements

**NT1** hafnium-alpha

**NT1** hafnium-beta

### HAFNIUM 153

*2007-11-01*

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

### HAFNIUM 154

*INIS: 1986-05-05; ETDE: 1986-07-03*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

### HAFNIUM 155

*INIS: 1986-05-05; ETDE: 1986-07-03*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

### HAFNIUM 156

*INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 microseconds living radioisotopes

\*BT1 milliseconds living radioisotopes

### HAFNIUM 157

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

### HAFNIUM 158

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

### HAFNIUM 159

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

### HAFNIUM 160

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

### HAFNIUM 161

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

### HAFNIUM 162

*INIS: 1982-06-09; ETDE: 1982-02-08*

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

### HAFNIUM 163

*INIS: 1980-12-01; ETDE: 1980-08-25*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

### HAFNIUM 164

*INIS: 1982-04-14; ETDE: 1982-02-08*

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**HAFNIUM 165***INIS: 1982-06-09; ETDE: 1982-07-08*

- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**HAFNIUM 166**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**HAFNIUM 167**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**HAFNIUM 168**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**HAFNIUM 169**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**HAFNIUM 170**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**HAFNIUM 171**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**HAFNIUM 172**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 years living radioisotopes

**HAFNIUM 173**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**HAFNIUM 174**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 years living radioisotopes

**HAFNIUM 174 TARGET***INIS: 1977-09-15; ETDE: 1977-05-07*  
BT1 targets**HAFNIUM 175**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei

- \*BT1 hafnium isotopes
- \*BT1 intermediate mass nuclei

**HAFNIUM 176**

- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**HAFNIUM 176 TARGET***INIS: 1976-04-03; ETDE: 1976-07-12*  
BT1 targets**HAFNIUM 177**

- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes

**HAFNIUM 177 TARGET***ETDE: 1976-07-09*  
BT1 targets**HAFNIUM 178**

- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes
- \*BT1 years living radioisotopes

**HAFNIUM 178 TARGET***ETDE: 1976-07-09*  
BT1 targets**HAFNIUM 179**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes

**HAFNIUM 179 TARGET***ETDE: 1976-07-09*  
BT1 targets**HAFNIUM 180**

- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes

**HAFNIUM 180 TARGET***ETDE: 1976-07-09*  
BT1 targets**HAFNIUM 181**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei

**HAFNIUM 182**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 years living radioisotopes

**HAFNIUM 183**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes

**HAFNIUM 184**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes

**HAFNIUM 185**

- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei

**HAFNIUM 186**

- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei

**HAFNIUM 187***2007-11-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HAFNIUM 188***2007-11-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HAFNIUM ADDITIONS***2000-04-10**Alloys containing not more than 1% Hf are listed here.*

- \*BT1 hafnium alloys
- NT1 astar 811c

**HAFNIUM ALLOYS***1995-02-27**Alloys containing more than 1% Hf.*

- \*BT1 transition element alloys
- NT1 alloy-c-103
- NT1 alloy-ta90w8hf
- NT2 tantalum alloy-t111
- NT1 hafnium additions
- NT2 astar 811c
- NT1 hafnium base alloys

**HAFNIUM-ALPHA**

- \*BT1 hafnium

**HAFNIUM ARSENIDES***INIS: 2000-04-12; ETDE: 1984-06-14*

- \*BT1 arsenides
- \*BT1 hafnium compounds

**HAFNIUM BASE ALLOYS**

- \*BT1 hafnium alloys

**HAFNIUM-BETA**

- \*BT1 hafnium

**HAFNIUM BORIDES**

- \*BT1 borides
- \*BT1 hafnium compounds

**HAFNIUM BROMIDES**

- \*BT1 bromides
- \*BT1 hafnium compounds

**HAFNIUM CARBIDES**

- \*BT1 carbides
- \*BT1 hafnium compounds

**HAFNIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 hafnium compounds

**HAFNIUM COMPLEXES**

- \*BT1 transition element complexes

**HAFNIUM COMPOUNDS**

1997-06-17

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 hafnates
- NT1 hafnium arsenides
- NT1 hafnium borides
- NT1 hafnium bromides
- NT1 hafnium carbides
- NT1 hafnium chlorides
- NT1 hafnium fluorides
- NT1 hafnium hydrides
- NT1 hafnium hydroxides
- NT1 hafnium iodides
- NT1 hafnium nitrates
- NT1 hafnium nitrides
- NT1 hafnium oxides
- NT1 hafnium perchlorates
- NT1 hafnium phosphates
- NT1 hafnium phosphides
- NT1 hafnium selenides
- NT1 hafnium silicates
- NT1 hafnium silicides
- NT1 hafnium sulfates
- NT1 hafnium sulfides
- NT1 hafnium tellurides
- NT1 hafnium tungstates

**HAFNIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 hafnium compounds

**HAFNIUM HYDRIDES**

- \*BT1 hafnium compounds
- \*BT1 hydrides

**HAFNIUM HYDROXIDES**

- \*BT1 hafnium compounds
- \*BT1 hydroxides

**HAFNIUM IODIDES**

- \*BT1 hafnium compounds
- \*BT1 iodides

**HAFNIUM IONS**

- \*BT1 ions

**HAFNIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 hafnium 153
- NT1 hafnium 154
- NT1 hafnium 155
- NT1 hafnium 156
- NT1 hafnium 157
- NT1 hafnium 158
- NT1 hafnium 159
- NT1 hafnium 160
- NT1 hafnium 161
- NT1 hafnium 162
- NT1 hafnium 163
- NT1 hafnium 164
- NT1 hafnium 165
- NT1 hafnium 166
- NT1 hafnium 167
- NT1 hafnium 168
- NT1 hafnium 169
- NT1 hafnium 170
- NT1 hafnium 171
- NT1 hafnium 172
- NT1 hafnium 173
- NT1 hafnium 174
- NT1 hafnium 175
- NT1 hafnium 176

- NT1 hafnium 177
- NT1 hafnium 178
- NT1 hafnium 179
- NT1 hafnium 180
- NT1 hafnium 181
- NT1 hafnium 182
- NT1 hafnium 183
- NT1 hafnium 184
- NT1 hafnium 185
- NT1 hafnium 186
- NT1 hafnium 187
- NT1 hafnium 188

**HAFNIUM NITRATES**

- \*BT1 hafnium compounds
- \*BT1 nitrates

**HAFNIUM NITRIDES**

- \*BT1 hafnium compounds
- \*BT1 nitrides

**HAFNIUM OXIDES**

- \*BT1 hafnium compounds
- \*BT1 oxides
- RT baddeleyite
- RT hafnates
- RT oxide minerals

**HAFNIUM PERCHLORATES**

INIS: 1991-09-16; ETDE: 1980-03-04

- \*BT1 hafnium compounds
- \*BT1 perchlorates

**HAFNIUM PHOSPHATES**

- \*BT1 hafnium compounds
- \*BT1 phosphates

**HAFNIUM PHOSPHIDES**

INIS: 1991-09-16; ETDE: 1979-02-23

- \*BT1 hafnium compounds
- \*BT1 phosphides

**HAFNIUM SELENIDES**

- \*BT1 hafnium compounds
- \*BT1 selenides

**HAFNIUM SILICATES**

- \*BT1 hafnium compounds
- \*BT1 silicates

**HAFNIUM SILICIDES**

1979-04-27

- \*BT1 hafnium compounds
- \*BT1 silicides

**HAFNIUM SULFATES**

- \*BT1 hafnium compounds
- \*BT1 sulfates

**HAFNIUM SULFIDES**

- \*BT1 hafnium compounds
- \*BT1 sulfides

**HAFNIUM TELLURIDES**

INIS: 1985-09-06; ETDE: 1978-09-11

- \*BT1 hafnium compounds
- \*BT1 tellurides

**HAFNIUM TUNGSTATES**

INIS: 1996-07-18; ETDE: 1978-03-03

(From July 1996 to February 2008 HAFNIUM COMPOUNDS + TUNGSTATES was used for this concept.)

- \*BT1 hafnium compounds
- \*BT1 tungstates

***hahn-meitner vicksi accelerator***

INIS: 1993-11-08; ETDE: 2002-06-13

- USE vicksi accelerator

***hahnium***

INIS: 1984-06-21; ETDE: 2002-06-13

- USE dubnium

**HAIL**

- BT1 atmospheric precipitations
- RT ice
- RT weather

***haines process***

INIS: 2000-04-12; ETDE: 1977-01-28

*An adsorption process for desulfurization and sulfur recovery which uses alkali metal aluminosilicates.*

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**HAIR**

- \*BT1 skin
- RT epilation
- RT hair follicles
- RT melanin

**HAIR FOLLICLES**

1975-09-16

- BT1 animal cells
- \*BT1 skin
- RT epithelium
- RT hair

**HAITI**

INIS: 1988-04-15; ETDE: 1979-09-26

- BT1 developing countries
- \*BT1 hispaniola
- BT1 latin america

***haizy***

INIS: 2000-04-12; ETDE: 1983-03-24

(Prior to July 1985, this was a valid ETDE descriptor.)

- USE haizy cyclotron

**HAIZY CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-07-07

*Hamburg isochronous cyclotron.*UF *haizy*

- \*BT1 isochronous cyclotrons

***halden heavy boiling water reactor***

1993-11-08

- USE hbwr reactor

***hallex process***

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

- USE purex process

**HALF-LIFE**

- UF *halftime*
- RT days living radioisotopes
- RT decay
- RT ft value
- RT geiger-nuttall law
- RT hours living radioisotopes
- RT lifetime
- RT microseconds living radioisotopes
- RT milliseconds living radioisotopes
- RT minutes living radioisotopes
- RT nanoseconds living radioisotopes
- RT radioisotope generators
- RT residence half-time
- RT seconds living radioisotopes
- RT years living radioisotopes

***half-life (biological)***

- USE biological half-life

***half-life (effective)***

- USE biological half-life

**HALF-THICKNESS**

*Thickness of material which reduces the intensity of a beam of radiation passing through it to one-half its initial value.*

- BT1 physical properties  
 RT absorption  
 RT radiation length  
 RT radiation protection  
 RT radiation quality  
 RT shielding  
 RT thickness

**halfbeak event**

*INIS: 1994-10-14; ETDE: 1977-01-10*

*A test made during OPERATION*

*FLINTLOCK.*

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions  
 USE underground explosions

**halfime**

- USE half-life

**HALIDE MINERALS**

*INIS: 1996-07-08; ETDE: 1982-05-12*

- UF *schroekingierite*  
 BT1 minerals  
 NT1 carnallite  
 NT1 fluorite  
 NT1 halite  
 RT calcium fluorides  
 RT magnesium chlorides  
 RT potassium chlorides

**HALIDES**

UF *acid halides*

- BT1 halogen compounds  
 NT1 actinium halides  
 NT2 actinium chlorides  
 NT2 actinium fluorides  
 NT1 americium halides  
 NT2 americium iodides  
 NT1 ammonium halides  
 NT2 ammonium chlorides  
 NT2 ammonium fluorides  
 NT1 astatine halides  
 NT2 astatine iodides  
 NT1 beryllium halides  
 NT2 beryllium iodides  
 NT1 bromides  
 NT2 actinium bromides  
 NT2 aluminium bromides  
 NT2 americium bromides  
 NT2 antimony bromides  
 NT2 arsenic bromides  
 NT2 astatine bromides  
 NT2 barium bromides  
 NT2 berkelium bromides  
 NT2 beryllium bromides  
 NT2 bismuth bromides  
 NT2 boron bromides  
 NT2 cadmium bromides  
 NT2 calcium bromides  
 NT2 californium bromides  
 NT2 cerium bromides  
 NT2 cesium bromides  
 NT2 chromium bromides  
 NT2 cobalt bromides  
 NT2 copper bromides  
 NT2 curium bromides  
 NT2 dysprosium bromides  
 NT2 einsteinium bromides  
 NT2 erbium bromides  
 NT2 europium bromides  
 NT2 fermium bromides  
 NT2 gadolinium bromides  
 NT2 gallium bromides  
 NT2 germanium bromides  
 NT2 gold bromides

- NT2 hafnium bromides  
 NT2 holmium bromides  
 NT2 indium bromides  
 NT2 iodine bromides  
 NT2 iron bromides  
 NT2 krypton bromides  
 NT2 lanthanum bromides  
 NT2 lead bromides  
 NT2 lithium bromides  
 NT2 lutetium bromides  
 NT2 magnesium bromides  
 NT2 manganese bromides  
 NT2 mercury bromides  
 NT2 molybdenum bromides  
 NT2 neodymium bromides  
 NT2 neptunium bromides  
 NT2 nickel bromides  
 NT2 niobium bromides  
 NT2 nitrogen bromides  
 NT2 palladium bromides  
 NT2 phosphorus bromides  
 NT2 platinum bromides  
 NT2 plutonium bromides  
 NT2 polonium bromides  
 NT2 potassium bromides  
 NT2 praseodymium bromides  
 NT2 promethium bromides  
 NT2 protactinium bromides  
 NT2 radium bromides  
 NT2 rhenium bromides  
 NT2 rhodium bromides  
 NT2 rubidium bromides  
 NT2 ruthenium bromides  
 NT2 samarium bromides  
 NT2 scandium bromides  
 NT2 selenium bromides  
 NT2 silicon bromides  
 NT2 silver bromides  
 NT2 sodium bromides  
 NT2 strontium bromides  
 NT2 tantalum bromides  
 NT2 technetium bromides  
 NT2 tellurium bromides  
 NT2 terbium bromides  
 NT2 thallium bromides  
 NT2 thorium bromides  
 NT2 thulium bromides  
 NT2 tin bromides  
 NT2 titanium bromides  
 NT2 tungsten bromides  
 NT2 uranium bromides  
 NT2 vanadium bromides  
 NT2 xenon bromides  
 NT2 ytterbium bromides  
 NT2 yttrium bromides  
 NT2 zinc bromides  
 NT2 zirconium bromides  
 NT1 cadmium halides  
 NT2 cadmium bromides  
 NT2 cadmium chlorides  
 NT2 cadmium fluorides  
 NT2 cadmium iodides  
 NT1 calcium halides  
 NT2 calcium bromides  
 NT2 calcium chlorides  
 NT2 calcium fluorides  
 NT2 calcium iodides  
 NT1 californium halides  
 NT2 californium iodides  
 NT1 chlorides  
 NT2 actinium chlorides  
 NT2 aluminium chlorides  
 NT2 americium chlorides  
 NT2 ammonium chlorides  
 NT2 antimony chlorides  
 NT2 argon chlorides  
 NT2 arsenic chlorides  
 NT2 astatine chlorides  
 NT2 barium chlorides  
 NT2 berkelium chlorides  
 NT2 beryllium chlorides  
 NT2 bismuth chlorides  
 NT2 boron chlorides  
 NT2 bromine chlorides  
 NT2 cadmium chlorides  
 NT2 calcium chlorides  
 NT2 californium chlorides  
 NT2 cerium chlorides  
 NT2 cesium chlorides  
 NT2 chromium chlorides  
 NT2 cobalt chlorides  
 NT2 copper chlorides  
 NT2 curium chlorides  
 NT2 dysprosium chlorides  
 NT2 einsteinium chlorides  
 NT2 erbium chlorides  
 NT2 europium chlorides  
 NT2 fermium chlorides  
 NT2 francium chlorides  
 NT2 gadolinium chlorides  
 NT2 gallium chlorides  
 NT2 germanium chlorides  
 NT2 gold chlorides  
 NT2 hafnium chlorides  
 NT2 helium chlorides  
 NT2 holmium chlorides  
 NT2 indium chlorides  
 NT2 iodine chlorides  
 NT2 iridium chlorides  
 NT2 iron chlorides  
 NT2 krypton chlorides  
 NT2 lanthanum chlorides  
 NT2 lead chlorides  
 NT2 lithium chlorides  
 NT2 lutetium chlorides  
 NT2 magnesium chlorides  
 NT2 manganese chlorides  
 NT2 mercury chlorides  
 NT2 methylene blue  
 NT2 molybdenum chlorides  
 NT2 neodymium chlorides  
 NT2 neon chlorides  
 NT2 neptunium chlorides  
 NT2 nickel chlorides  
 NT2 niobium chlorides  
 NT2 nitrogen chlorides  
 NT2 osmium chlorides  
 NT2 palladium chlorides  
 NT2 phosphorus chlorides  
 NT2 platinum chlorides  
 NT2 plutonium chlorides  
 NT2 polonium chlorides  
 NT2 potassium chlorides  
 NT2 praseodymium chlorides  
 NT2 promethium chlorides  
 NT2 protactinium chlorides  
 NT2 radium chlorides  
 NT2 rhenium chlorides  
 NT2 rhodium chlorides  
 NT2 rubidium chlorides  
 NT2 ruthenium chlorides  
 NT2 rutherfordium chlorides  
 NT2 samarium chlorides  
 NT2 scandium chlorides  
 NT2 selenium chlorides  
 NT2 silicon chlorides  
 NT2 silver chlorides  
 NT2 sodium chlorides  
 NT2 strontium chlorides  
 NT2 sulfur chlorides  
 NT2 tantalum chlorides  
 NT2 technetium chlorides  
 NT2 tellurium chlorides  
 NT2 terbium chlorides  
 NT2 tetrazolium  
 NT2 thallium chlorides  
 NT2 thionyl chlorides  
 NT2 thorium chlorides



NT2	thulium chlorides	NT2	phosphorus fluorides	NT2	hafnium iodides
NT2	tin chlorides	NT2	platinum fluorides	NT2	holmium iodides
NT2	titanium chlorides	NT2	plutonium fluorides	NT2	indium iodides
NT2	tungsten chlorides	NT2	polonium fluorides	NT2	iron iodides
NT2	uranium chlorides	NT2	potassium fluorides	NT2	lanthanum iodides
NT2	uranyl chlorides	NT2	praseodymium fluorides	NT2	lead iodides
NT2	vanadium chlorides	NT2	promethium fluorides	NT2	lithium iodides
NT2	xenon chlorides	NT2	protactinium fluorides	NT2	lutetium iodides
NT2	ytterbium chlorides	NT2	radium fluorides	NT2	magnesium iodides
NT2	yttrium chlorides	NT2	radon fluorides	NT2	manganese iodides
NT2	zinc chlorides	NT2	rhenium fluorides	NT2	mercury iodides
NT2	zirconium chlorides	NT2	rhodium fluorides	NT2	molybdenum iodides
NT1	copper halides	NT2	rubidium fluorides	NT2	neodymium iodides
NT2	copper bromides	NT2	ruthenium fluorides	NT2	neon iodides
NT2	copper chlorides	NT2	samarium fluorides	NT2	neptunium iodides
NT2	copper fluorides	NT2	scandium fluorides	NT2	nickel iodides
NT2	copper iodides	NT2	selenium fluorides	NT2	niobium iodides
NT1	einsteinium halides	NT2	silicon fluorides	NT2	nitrogen iodides
NT2	einsteinium fluorides	NT2	silver fluorides	NT2	palladium iodides
NT2	einsteinium iodides	NT2	sodium fluorides	NT2	phosphorus iodides
NT1	fermium halides	NT2	strontium fluorides	NT2	platinum iodides
NT2	fermium chlorides	NT2	sulfur fluorides	NT2	plutonium iodides
NT2	fermium iodides	NT2	tantalum fluorides	NT2	polonium iodides
NT1	fluorides	NT2	technetium fluorides	NT2	potassium iodides
NT2	actinium fluorides	NT2	tellurium fluorides	NT2	praseodymium iodides
NT2	aluminium fluorides	NT2	terbium fluorides	NT2	promethium iodides
NT2	americium fluorides	NT2	thallium fluorides	NT2	protactinium iodides
NT2	ammonium fluorides	NT2	thorium fluorides	NT2	rhenium iodides
NT2	antimony fluorides	NT2	thulium fluorides	NT2	rubidium iodides
NT2	argon fluorides	NT2	tin fluorides	NT2	samarium iodides
NT2	arsenic fluorides	NT2	titanium fluorides	NT2	scandium iodides
NT2	barium fluorides	NT2	tungsten fluorides	NT2	selenium iodides
NT2	berkelium fluorides	NT2	uranium fluorides	NT2	silicon iodides
NT2	beryllium fluorides	NT3	uranium hexafluoride	NT2	silver iodides
NT2	bismuth fluorides	NT3	uranium pentafluoride	NT2	sodium iodides
NT2	boron fluorides	NT3	uranium tetrafluoride	NT2	strontium iodides
NT2	bromine fluorides	NT2	uranyl fluorides	NT2	tantalum iodides
NT2	cadmium fluorides	NT2	vanadium fluorides	NT2	technetium iodides
NT2	calcium fluorides	NT2	xenon fluorides	NT2	tellurium iodides
NT2	californium fluorides	NT2	ytterbium fluorides	NT2	terbium iodides
NT2	carbon fluorides	NT2	yttrium fluorides	NT2	thallium iodides
NT2	cerium fluorides	NT2	zinc fluorides	NT2	thorium iodides
NT2	cesium fluorides	NT2	zirconium fluorides	NT2	thulium iodides
NT2	chlorine fluorides	NT1	francium halides	NT2	tin iodides
NT2	chromium fluorides	NT2	francium chlorides	NT2	titanium iodides
NT2	cobalt fluorides	NT1	gallium halides	NT2	tungsten iodides
NT2	copper fluorides	NT2	gallium bromides	NT2	uranium iodides
NT2	curium fluorides	NT2	gallium chlorides	NT2	vanadium iodides
NT2	dysprosium fluorides	NT2	gallium fluorides	NT2	xenon iodides
NT2	einsteinium fluorides	NT2	gallium iodides	NT2	ytterbium iodides
NT2	erbium fluorides	NT1	iodides	NT2	yttrium iodides
NT2	europium fluorides	NT2	aluminium iodides	NT2	zinc iodides
NT2	gadolinium fluorides	NT2	americium iodides	NT2	zirconium iodides
NT2	gallium fluorides	NT2	antimony iodides	NT1	lead halides
NT2	germanium fluorides	NT2	argon iodides	NT2	lead bromides
NT2	gold fluorides	NT2	arsenic iodides	NT2	lead chlorides
NT2	hafnium fluorides	NT2	astatine iodides	NT2	lead fluorides
NT2	holmium fluorides	NT2	barium iodides	NT2	lead iodides
NT2	indium fluorides	NT2	beryllium iodides	NT1	lithium halides
NT2	iodine fluorides	NT2	bismuth iodides	NT2	lithium bromides
NT2	iridium fluorides	NT2	boron iodides	NT2	lithium chlorides
NT2	iron fluorides	NT2	cadmium iodides	NT2	lithium fluorides
NT2	krypton fluorides	NT2	calcium iodides	NT2	lithium iodides
NT2	lanthanum fluorides	NT2	californium iodides	NT1	manganese halides
NT2	lead fluorides	NT2	cerium iodides	NT2	manganese bromides
NT2	lithium fluorides	NT2	cesium iodides	NT2	manganese chlorides
NT2	lutetium fluorides	NT2	chromium iodides	NT2	manganese fluorides
NT2	magnesium fluorides	NT2	cobalt iodides	NT2	manganese iodides
NT2	manganese fluorides	NT2	copper iodides	NT1	mercury halides
NT2	mercury fluorides	NT2	curium iodides	NT2	mercury bromides
NT2	molybdenum fluorides	NT2	dysprosium iodides	NT2	mercury chlorides
NT2	neodymium fluorides	NT2	einsteinium iodides	NT2	mercury fluorides
NT2	neon fluorides	NT2	erbium iodides	NT2	mercury iodides
NT2	neptunium fluorides	NT2	europium iodides	NT1	polonium halides
NT2	nickel fluorides	NT2	fermium iodides	NT2	polonium chlorides
NT2	niobium fluorides	NT2	gadolinium iodides	NT2	polonium fluorides
NT2	nitrogen fluorides	NT2	gallium iodides	NT2	polonium iodides
NT2	osmium fluorides	NT2	germanium iodides	NT1	promethium halides
NT2	palladium fluorides	NT2	gold iodides	NT2	promethium iodides

NT1 protactinium halides  
 NT2 protactinium iodides  
 NT1 radium halides  
 NT2 radium fluorides  
 NT1 rhenium halides  
 NT2 rhenium bromides  
 NT2 rhenium chlorides  
 NT2 rhenium fluorides  
 NT2 rhenium iodides  
 NT1 silicon halides  
 NT2 silicon bromides  
 NT2 silicon chlorides  
 NT2 silicon fluorides  
 NT2 silicon iodides  
 NT1 tellurium halides  
 NT2 tellurium bromides  
 NT2 tellurium chlorides  
 NT2 tellurium fluorides  
 NT2 tellurium iodides  
 NT1 thallium halides  
 NT2 thallium bromides  
 NT2 thallium chlorides  
 NT2 thallium fluorides  
 NT2 thallium iodides  
 NT1 tin halides  
 NT2 tin bromides  
 NT2 tin chlorides  
 NT2 tin fluorides  
 NT2 tin iodides  
 NT1 zinc halides  
 NT2 zinc bromides  
 NT2 zinc chlorides  
 NT2 zinc fluorides  
 NT2 zinc iodides

**HALITE**

*INIS: 2000-04-20; ETDE: 1985-09-23*

\*BT1 halide minerals  
 RT evaporites  
 RT salt deposits  
 RT sodium chlorides

**HALL EFFECT**

RT electric conductors  
 RT ettinghausen effect  
 RT nernst effect  
 RT righi-leduc effect  
 RT shubnikov-de haas effect

**hall generators**

USE mhd generators

**hallam nuclear power facility**

USE hnpf reactor

**HALLEY COMET**

*INIS: 1986-08-19; ETDE: 1986-09-05*

BT1 comets  
 RT solar system

**HALLIMONDITE**

*2000-04-12*

\*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT arsenic oxides  
 RT lead oxides  
 RT uranium oxides

**halls**

*2006-05-26*

SEE high rooms

**HALLUCINOGENS**

*1996-06-26*

\*BT1 psychotropic drugs  
 NT1 bufotenine  
 RT marihuana

**halo states**

*1995-07-03*

USE nuclear halos

**HALOGEN COMPOUNDS**

*For inorganic compounds only; see also ORGANIC HALOGEN COMPOUNDS.*

NT1 astatine compounds  
 NT2 astatine bromides  
 NT2 astatine chlorides  
 NT2 astatine halides  
 NT3 astatine iodides  
 NT1 bromine compounds  
 NT2 bromates  
 NT2 bromic acid  
 NT2 bromides  
 NT3 actinium bromides  
 NT3 aluminium bromides  
 NT3 americium bromides  
 NT3 antimony bromides  
 NT3 arsenic bromides  
 NT3 astatine bromides  
 NT3 barium bromides  
 NT3 berkelium bromides  
 NT3 beryllium bromides  
 NT3 bismuth bromides  
 NT3 boron bromides  
 NT3 cadmium bromides  
 NT3 calcium bromides  
 NT3 californium bromides  
 NT3 cerium bromides  
 NT3 cesium bromides  
 NT3 chromium bromides  
 NT3 cobalt bromides  
 NT3 copper bromides  
 NT3 curium bromides  
 NT3 dysprosium bromides  
 NT3 einsteinium bromides  
 NT3 erbium bromides  
 NT3 europium bromides  
 NT3 fermium bromides  
 NT3 gadolinium bromides  
 NT3 gallium bromides  
 NT3 germanium bromides  
 NT3 gold bromides  
 NT3 hafnium bromides  
 NT3 holmium bromides  
 NT3 indium bromides  
 NT3 iodine bromides  
 NT3 iron bromides  
 NT3 krypton bromides  
 NT3 lanthanum bromides  
 NT3 lead bromides  
 NT3 lithium bromides  
 NT3 lutetium bromides  
 NT3 magnesium bromides  
 NT3 manganese bromides  
 NT3 mercury bromides  
 NT3 molybdenum bromides  
 NT3 neodymium bromides  
 NT3 neptunium bromides  
 NT3 nickel bromides  
 NT3 niobium bromides  
 NT3 nitrogen bromides  
 NT3 palladium bromides  
 NT3 phosphorus bromides  
 NT3 platinum bromides  
 NT3 plutonium bromides  
 NT3 polonium bromides  
 NT3 potassium bromides  
 NT3 praseodymium bromides  
 NT3 promethium bromides  
 NT3 protactinium bromides  
 NT3 radium bromides  
 NT3 rhenium bromides  
 NT3 rhodium bromides  
 NT3 rubidium bromides  
 NT3 ruthenium bromides  
 NT3 samarium bromides  
 NT3 scandium bromides  
 NT3 selenium bromides  
 NT3 silicon bromides  
 NT3 silver bromides

NT3 sodium bromides  
 NT3 strontium bromides  
 NT3 tantalum bromides  
 NT3 technetium bromides  
 NT3 tellurium bromides  
 NT3 terbium bromides  
 NT3 thallium bromides  
 NT3 thorium bromides  
 NT3 thulium bromides  
 NT3 tin bromides  
 NT3 titanium bromides  
 NT3 tungsten bromides  
 NT3 uranium bromides  
 NT3 vanadium bromides  
 NT3 xenon bromides  
 NT3 ytterbium bromides  
 NT3 yttrium bromides  
 NT3 zinc bromides  
 NT3 zirconium bromides  
 NT2 bromine chlorides  
 NT2 bromine fluorides  
 NT2 bromine oxides  
 NT2 hydrobromic acid  
 NT2 oxybromides  
 NT2 perbromates  
 NT1 chlorine compounds  
 NT2 chlorates  
 NT2 chloric acid  
 NT2 chlorides  
 NT3 actinium chlorides  
 NT3 aluminium chlorides  
 NT3 americium chlorides  
 NT3 ammonium chlorides  
 NT3 antimony chlorides  
 NT3 argon chlorides  
 NT3 arsenic chlorides  
 NT3 astatine chlorides  
 NT3 barium chlorides  
 NT3 berkelium chlorides  
 NT3 beryllium chlorides  
 NT3 bismuth chlorides  
 NT3 boron chlorides  
 NT3 bromine chlorides  
 NT3 cadmium chlorides  
 NT3 calcium chlorides  
 NT3 californium chlorides  
 NT3 cerium chlorides  
 NT3 cesium chlorides  
 NT3 chromium chlorides  
 NT3 cobalt chlorides  
 NT3 copper chlorides  
 NT3 curium chlorides  
 NT3 dysprosium chlorides  
 NT3 einsteinium chlorides  
 NT3 erbium chlorides  
 NT3 europium chlorides  
 NT3 fermium chlorides  
 NT3 francium chlorides  
 NT3 gadolinium chlorides  
 NT3 gallium chlorides  
 NT3 germanium chlorides  
 NT3 gold chlorides  
 NT3 hafnium chlorides  
 NT3 helium chlorides  
 NT3 holmium chlorides  
 NT3 indium chlorides  
 NT3 iodine chlorides  
 NT3 iridium chlorides  
 NT3 iron chlorides  
 NT3 krypton chlorides  
 NT3 lanthanum chlorides  
 NT3 lead chlorides  
 NT3 lithium chlorides  
 NT3 lutetium chlorides  
 NT3 magnesium chlorides  
 NT3 manganese chlorides  
 NT3 mercury chlorides  
 NT3 methylene blue  
 NT3 molybdenum chlorides

- NT3** neodymium chlorides  
**NT3** neon chlorides  
**NT3** neptunium chlorides  
**NT3** nickel chlorides  
**NT3** niobium chlorides  
**NT3** nitrogen chlorides  
**NT3** osmium chlorides  
**NT3** palladium chlorides  
**NT3** phosphorus chlorides  
**NT3** platinum chlorides  
**NT3** plutonium chlorides  
**NT3** polonium chlorides  
**NT3** potassium chlorides  
**NT3** praseodymium chlorides  
**NT3** promethium chlorides  
**NT3** protactinium chlorides  
**NT3** radium chlorides  
**NT3** rhenium chlorides  
**NT3** rhodium chlorides  
**NT3** rubidium chlorides  
**NT3** ruthenium chlorides  
**NT3** rutherfordium chlorides  
**NT3** samarium chlorides  
**NT3** scandium chlorides  
**NT3** selenium chlorides  
**NT3** silicon chlorides  
**NT3** silver chlorides  
**NT3** sodium chlorides  
**NT3** strontium chlorides  
**NT3** sulfur chlorides  
**NT3** tantalum chlorides  
**NT3** technetium chlorides  
**NT3** tellurium chlorides  
**NT3** terbium chlorides  
**NT3** tetrazolium  
**NT3** thallium chlorides  
**NT3** thionyl chlorides  
**NT3** thorium chlorides  
**NT3** thulium chlorides  
**NT3** tin chlorides  
**NT3** titanium chlorides  
**NT3** tungsten chlorides  
**NT3** uranium chlorides  
**NT3** uranyl chlorides  
**NT3** vanadium chlorides  
**NT3** xenon chlorides  
**NT3** ytterbium chlorides  
**NT3** yttrium chlorides  
**NT3** zinc chlorides  
**NT3** zirconium chlorides  
**NT2** chlorine fluorides  
**NT2** chlorine nitrates  
**NT2** chlorine oxides  
**NT2** chlorous acid  
**NT2** hydrochloric acid  
**NT2** hypochlorous acid  
**NT2** oxychlorides  
**NT2** perchlorates  
**NT3** aluminium perchlorates  
**NT3** americium perchlorates  
**NT3** ammonium perchlorates  
**NT3** barium perchlorates  
**NT3** cadmium perchlorates  
**NT3** calcium perchlorates  
**NT3** cerium perchlorates  
**NT3** cesium perchlorates  
**NT3** chromium perchlorates  
**NT3** cobalt perchlorates  
**NT3** copper perchlorates  
**NT3** dysprosium perchlorates  
**NT3** erbium perchlorates  
**NT3** europium perchlorates  
**NT3** gadolinium perchlorates  
**NT3** hafnium perchlorates  
**NT3** holmium perchlorates  
**NT3** indium perchlorates  
**NT3** iron perchlorates  
**NT3** lanthanum perchlorates  
**NT3** lead perchlorates  
**NT3** lithium perchlorates  
**NT3** lutetium perchlorates  
**NT3** magnesium perchlorates  
**NT3** manganese perchlorates  
**NT3** mercury perchlorates  
**NT3** neodymium perchlorates  
**NT3** neptunium perchlorates  
**NT3** plutonium perchlorates  
**NT3** potassium perchlorates  
**NT3** praseodymium perchlorates  
**NT3** rubidium perchlorates  
**NT3** samarium perchlorates  
**NT3** scandium perchlorates  
**NT3** silver perchlorates  
**NT3** sodium perchlorates  
**NT3** strontium perchlorates  
**NT3** terbium perchlorates  
**NT3** thallium perchlorates  
**NT3** thorium perchlorates  
**NT3** thulium perchlorates  
**NT3** uranium perchlorates  
**NT3** uranyl perchlorates  
**NT3** ytterbium perchlorates  
**NT3** yttrium perchlorates  
**NT3** zinc perchlorates  
**NT3** zirconium perchlorates  
**NT2** perchloric acid  
**NT1** fluorine compounds  
**NT2** fluorates  
**NT2** fluorides  
**NT3** actinium fluorides  
**NT3** aluminium fluorides  
**NT3** americium fluorides  
**NT3** ammonium fluorides  
**NT3** antimony fluorides  
**NT3** argon fluorides  
**NT3** arsenic fluorides  
**NT3** barium fluorides  
**NT3** berkelium fluorides  
**NT3** beryllium fluorides  
**NT3** bismuth fluorides  
**NT3** boron fluorides  
**NT3** bromine fluorides  
**NT3** cadmium fluorides  
**NT3** calcium fluorides  
**NT3** californium fluorides  
**NT3** carbon fluorides  
**NT3** cerium fluorides  
**NT3** cesium fluorides  
**NT3** chlorine fluorides  
**NT3** chromium fluorides  
**NT3** cobalt fluorides  
**NT3** copper fluorides  
**NT3** curium fluorides  
**NT3** dysprosium fluorides  
**NT3** einsteinium fluorides  
**NT3** erbium fluorides  
**NT3** europium fluorides  
**NT3** gadolinium fluorides  
**NT3** gallium fluorides  
**NT3** germanium fluorides  
**NT3** gold fluorides  
**NT3** hafnium fluorides  
**NT3** holmium fluorides  
**NT3** indium fluorides  
**NT3** iodine fluorides  
**NT3** iridium fluorides  
**NT3** iron fluorides  
**NT3** krypton fluorides  
**NT3** lanthanum fluorides  
**NT3** lead fluorides  
**NT3** lithium fluorides  
**NT3** lutetium fluorides  
**NT3** magnesium fluorides  
**NT3** manganese fluorides  
**NT3** mercury fluorides  
**NT3** molybdenum fluorides  
**NT3** neodymium fluorides  
**NT3** neon fluorides  
**NT3** neptunium fluorides  
**NT3** nickel fluorides  
**NT3** niobium fluorides  
**NT3** nitrogen fluorides  
**NT3** osmium fluorides  
**NT3** palladium fluorides  
**NT3** phosphorus fluorides  
**NT3** platinum fluorides  
**NT3** plutonium fluorides  
**NT3** polonium fluorides  
**NT3** potassium fluorides  
**NT3** praseodymium fluorides  
**NT3** promethium fluorides  
**NT3** protactinium fluorides  
**NT3** radium fluorides  
**NT3** radon fluorides  
**NT3** rhenium fluorides  
**NT3** rhodium fluorides  
**NT3** rubidium fluorides  
**NT3** ruthenium fluorides  
**NT3** samarium fluorides  
**NT3** scandium fluorides  
**NT3** selenium fluorides  
**NT3** silicon fluorides  
**NT3** silver fluorides  
**NT3** sodium fluorides  
**NT3** strontium fluorides  
**NT3** sulfur fluorides  
**NT3** tantalum fluorides  
**NT3** technetium fluorides  
**NT3** tellurium fluorides  
**NT3** terbium fluorides  
**NT3** thallium fluorides  
**NT3** thorium fluorides  
**NT3** thulium fluorides  
**NT3** tin fluorides  
**NT3** titanium fluorides  
**NT3** tungsten fluorides  
**NT3** uranium fluorides  
**NT4** uranium hexafluoride  
**NT4** uranium pentafluoride  
**NT4** uranium tetrafluoride  
**NT3** uranyl fluorides  
**NT3** vanadium fluorides  
**NT3** xenon fluorides  
**NT3** ytterbium fluorides  
**NT3** yttrium fluorides  
**NT3** zinc fluorides  
**NT3** zirconium fluorides  
**NT2** fluorine oxides  
**NT2** fluoroborates  
**NT2** fluoroboric acid  
**NT2** hydrofluoric acid  
**NT2** hypofluorous acid  
**NT2** oxyfluorides  
**NT1** halides  
**NT2** actinium halides  
**NT3** actinium chlorides  
**NT3** actinium fluorides  
**NT2** americium halides  
**NT3** americium iodides  
**NT2** ammonium halides  
**NT3** ammonium chlorides  
**NT3** ammonium fluorides  
**NT2** astatine halides  
**NT3** astatine iodides  
**NT2** beryllium halides  
**NT3** beryllium iodides  
**NT2** bromides  
**NT3** actinium bromides  
**NT3** aluminium bromides  
**NT3** americium bromides  
**NT3** antimony bromides  
**NT3** arsenic bromides  
**NT3** astatine bromides  
**NT3** barium bromides  
**NT3** berkelium bromides  
**NT3** beryllium bromides  
**NT3** bismuth bromides

NT3	boron bromides	NT3	cadmium fluorides	NT3	rubidium chlorides
NT3	cadmium bromides	NT3	cadmium iodides	NT3	ruthenium chlorides
NT3	calcium bromides	NT2	calcium halides	NT3	rutherfordium chlorides
NT3	californium bromides	NT3	calcium bromides	NT3	samarium chlorides
NT3	cerium bromides	NT3	calcium chlorides	NT3	scandium chlorides
NT3	cesium bromides	NT3	calcium fluorides	NT3	selenium chlorides
NT3	chromium bromides	NT3	calcium iodides	NT3	silicon chlorides
NT3	cobalt bromides	NT2	californium halides	NT3	silver chlorides
NT3	copper bromides	NT3	californium iodides	NT3	sodium chlorides
NT3	curium bromides	NT2	chlorides	NT3	strontium chlorides
NT3	dysprosium bromides	NT3	actinium chlorides	NT3	sulfur chlorides
NT3	einsteinium bromides	NT3	aluminium chlorides	NT3	tantalum chlorides
NT3	erbium bromides	NT3	americium chlorides	NT3	technetium chlorides
NT3	europium bromides	NT3	ammonium chlorides	NT3	tellurium chlorides
NT3	fermium bromides	NT3	antimony chlorides	NT3	terbium chlorides
NT3	gadolinium bromides	NT3	argon chlorides	NT3	tetrazolium
NT3	gallium bromides	NT3	arsenic chlorides	NT3	thallium chlorides
NT3	germanium bromides	NT3	astatine chlorides	NT3	thionyl chlorides
NT3	gold bromides	NT3	barium chlorides	NT3	thorium chlorides
NT3	hafnium bromides	NT3	berkelium chlorides	NT3	thulium chlorides
NT3	holmium bromides	NT3	beryllium chlorides	NT3	tin chlorides
NT3	indium bromides	NT3	bismuth chlorides	NT3	titanium chlorides
NT3	iodine bromides	NT3	boron chlorides	NT3	tungsten chlorides
NT3	iron bromides	NT3	bromine chlorides	NT3	uranium chlorides
NT3	krypton bromides	NT3	cadmium chlorides	NT3	uranyl chlorides
NT3	lanthanum bromides	NT3	calcium chlorides	NT3	vanadium chlorides
NT3	lead bromides	NT3	californium chlorides	NT3	xenon chlorides
NT3	lithium bromides	NT3	cerium chlorides	NT3	ytterbium chlorides
NT3	lutetium bromides	NT3	cesium chlorides	NT3	yttrium chlorides
NT3	magnesium bromides	NT3	chromium chlorides	NT3	zinc chlorides
NT3	manganese bromides	NT3	cobalt chlorides	NT3	zirconium chlorides
NT3	mercury bromides	NT3	copper chlorides	NT2	copper halides
NT3	molybdenum bromides	NT3	curium chlorides	NT3	copper bromides
NT3	neodymium bromides	NT3	dysprosium chlorides	NT3	copper chlorides
NT3	neptunium bromides	NT3	einsteinium chlorides	NT3	copper fluorides
NT3	nickel bromides	NT3	erbium chlorides	NT3	copper iodides
NT3	niobium bromides	NT3	europium chlorides	NT2	einsteinium halides
NT3	nitrogen bromides	NT3	fermium chlorides	NT3	einsteinium fluorides
NT3	palladium bromides	NT3	francium chlorides	NT3	einsteinium iodides
NT3	phosphorus bromides	NT3	gadolinium chlorides	NT2	fermium halides
NT3	platinum bromides	NT3	gallium chlorides	NT3	fermium chlorides
NT3	plutonium bromides	NT3	germanium chlorides	NT3	fermium iodides
NT3	polonium bromides	NT3	gold chlorides	NT2	fluorides
NT3	potassium bromides	NT3	hafnium chlorides	NT3	actinium fluorides
NT3	praseodymium bromides	NT3	helium chlorides	NT3	aluminium fluorides
NT3	promethium bromides	NT3	holmium chlorides	NT3	americium fluorides
NT3	protactinium bromides	NT3	indium chlorides	NT3	ammonium fluorides
NT3	radium bromides	NT3	iodine chlorides	NT3	antimony fluorides
NT3	rhenium bromides	NT3	iridium chlorides	NT3	argon fluorides
NT3	rhodium bromides	NT3	iron chlorides	NT3	arsenic fluorides
NT3	rubidium bromides	NT3	krypton chlorides	NT3	barium fluorides
NT3	ruthenium bromides	NT3	lanthanum chlorides	NT3	berkelium fluorides
NT3	samarium bromides	NT3	lead chlorides	NT3	beryllium fluorides
NT3	scandium bromides	NT3	lithium chlorides	NT3	bismuth fluorides
NT3	selenium bromides	NT3	lutetium chlorides	NT3	boron fluorides
NT3	silicon bromides	NT3	magnesium chlorides	NT3	bromine fluorides
NT3	silver bromides	NT3	manganese chlorides	NT3	cadmium fluorides
NT3	sodium bromides	NT3	mercury chlorides	NT3	calcium fluorides
NT3	strontium bromides	NT3	methylene blue	NT3	californium fluorides
NT3	tantalum bromides	NT3	molybdenum chlorides	NT3	carbon fluorides
NT3	technetium bromides	NT3	neodymium chlorides	NT3	cerium fluorides
NT3	tellurium bromides	NT3	neon chlorides	NT3	cesium fluorides
NT3	terbium bromides	NT3	neptunium chlorides	NT3	chlorine fluorides
NT3	thallium bromides	NT3	nickel chlorides	NT3	chromium fluorides
NT3	thorium bromides	NT3	niobium chlorides	NT3	cobalt fluorides
NT3	thulium bromides	NT3	nitrogen chlorides	NT3	copper fluorides
NT3	tin bromides	NT3	osmium chlorides	NT3	curium fluorides
NT3	titanium bromides	NT3	palladium chlorides	NT3	dysprosium fluorides
NT3	tungsten bromides	NT3	phosphorus chlorides	NT3	einsteinium fluorides
NT3	uranium bromides	NT3	platinum chlorides	NT3	erbium fluorides
NT3	vanadium bromides	NT3	plutonium chlorides	NT3	europium fluorides
NT3	xenon bromides	NT3	polonium chlorides	NT3	gadolinium fluorides
NT3	ytterbium bromides	NT3	potassium chlorides	NT3	gallium fluorides
NT3	yttrium bromides	NT3	praseodymium chlorides	NT3	germanium fluorides
NT3	zinc bromides	NT3	promethium chlorides	NT3	gold fluorides
NT3	zirconium bromides	NT3	protactinium chlorides	NT3	hafnium fluorides
NT2	cadmium halides	NT3	radium chlorides	NT3	holmium fluorides
NT3	cadmium bromides	NT3	rhenium chlorides	NT3	indium fluorides
NT3	cadmium chlorides	NT3	rhodium chlorides	NT3	iodine fluorides

NT3	iridium fluorides	NT3	boron iodides	NT3	lithium chlorides
NT3	iron fluorides	NT3	cadmium iodides	NT3	lithium fluorides
NT3	krypton fluorides	NT3	calcium iodides	NT3	lithium iodides
NT3	lanthanum fluorides	NT3	californium iodides	NT2	manganese halides
NT3	lead fluorides	NT3	cerium iodides	NT3	manganese bromides
NT3	lithium fluorides	NT3	cesium iodides	NT3	manganese chlorides
NT3	lutetium fluorides	NT3	chromium iodides	NT3	manganese fluorides
NT3	magnesium fluorides	NT3	cobalt iodides	NT3	manganese iodides
NT3	manganese fluorides	NT3	copper iodides	NT2	mercury halides
NT3	mercury fluorides	NT3	curium iodides	NT3	mercury bromides
NT3	molybdenum fluorides	NT3	dysprosium iodides	NT3	mercury chlorides
NT3	neodymium fluorides	NT3	einsteinium iodides	NT3	mercury fluorides
NT3	neon fluorides	NT3	erbium iodides	NT3	mercury iodides
NT3	neptunium fluorides	NT3	europium iodides	NT2	polonium halides
NT3	nickel fluorides	NT3	fermium iodides	NT3	polonium chlorides
NT3	niobium fluorides	NT3	gadolinium iodides	NT3	polonium fluorides
NT3	nitrogen fluorides	NT3	gallium iodides	NT3	polonium iodides
NT3	nitrogen fluorides	NT3	germanium iodides	NT2	promethium halides
NT3	osmium fluorides	NT3	gold iodides	NT3	promethium iodides
NT3	palladium fluorides	NT3	hafnium iodides	NT2	protactinium halides
NT3	phosphorus fluorides	NT3	holmium iodides	NT3	protactinium iodides
NT3	platinum fluorides	NT3	indium iodides	NT2	radium halides
NT3	plutonium fluorides	NT3	iron iodides	NT3	radium fluorides
NT3	polonium fluorides	NT3	lanthanum iodides	NT2	rhenium halides
NT3	potassium fluorides	NT3	lead iodides	NT3	rhenium bromides
NT3	praseodymium fluorides	NT3	lithium iodides	NT3	rhenium chlorides
NT3	promethium fluorides	NT3	lutetium iodides	NT3	rhenium fluorides
NT3	protactinium fluorides	NT3	lutetium iodides	NT3	rhenium iodides
NT3	radium fluorides	NT3	magnesium iodides	NT2	silicon halides
NT3	radon fluorides	NT3	manganese iodides	NT3	silicon bromides
NT3	rhenium fluorides	NT3	mercury iodides	NT3	silicon chlorides
NT3	rhodium fluorides	NT3	molybdenum iodides	NT3	silicon fluorides
NT3	rubidium fluorides	NT3	neodymium iodides	NT3	silicon iodides
NT3	ruthenium fluorides	NT3	neon iodides	NT2	tellurium halides
NT3	samarium fluorides	NT3	neptunium iodides	NT3	tellurium bromides
NT3	scandium fluorides	NT3	nickel iodides	NT3	tellurium chlorides
NT3	selenium fluorides	NT3	niobium iodides	NT3	tellurium fluorides
NT3	silicon fluorides	NT3	nitrogen iodides	NT3	tellurium iodides
NT3	silver fluorides	NT3	palladium iodides	NT2	thallium halides
NT3	sodium fluorides	NT3	phosphorus iodides	NT3	thallium bromides
NT3	strontium fluorides	NT3	platinum iodides	NT3	thallium chlorides
NT3	sulfur fluorides	NT3	plutonium iodides	NT3	thallium fluorides
NT3	tantalum fluorides	NT3	polonium iodides	NT3	thallium iodides
NT3	technetium fluorides	NT3	potassium iodides	NT2	tin halides
NT3	tellurium fluorides	NT3	praseodymium iodides	NT3	tin bromides
NT3	terbium fluorides	NT3	promethium iodides	NT3	tin chlorides
NT3	thallium fluorides	NT3	protactinium iodides	NT3	tin fluorides
NT3	thorium fluorides	NT3	rhenium iodides	NT3	tin iodides
NT3	thulium fluorides	NT3	rubidium iodides	NT2	zinc halides
NT3	tin fluorides	NT3	samarium iodides	NT3	zinc bromides
NT3	titanium fluorides	NT3	scandium iodides	NT3	zinc chlorides
NT3	tungsten fluorides	NT3	selenium iodides	NT3	zinc fluorides
NT3	uranium fluorides	NT3	silicon iodides	NT3	zinc iodides
NT4	uranium hexafluoride	NT3	silver iodides	NT1	iodine compounds
NT4	uranium pentafluoride	NT3	sodium iodides	NT2	hydriodic acid
NT4	uranium tetrafluoride	NT3	strontium iodides	NT2	hypoiodous acid
NT3	uranyl fluorides	NT3	tantalum iodides	NT2	iodates
NT3	vanadium fluorides	NT3	technetium iodides	NT2	iodic acid
NT3	xenon fluorides	NT3	tellurium iodides	NT2	iodides
NT3	ytterbium fluorides	NT3	terbium iodides	NT3	aluminium iodides
NT3	yttrium fluorides	NT3	thallium iodides	NT3	americium iodides
NT3	zinc fluorides	NT3	thorium iodides	NT3	antimony iodides
NT3	zirconium fluorides	NT3	thulium iodides	NT3	argon iodides
NT2	francium halides	NT3	tin iodides	NT3	arsenic iodides
NT3	francium chlorides	NT3	titanium iodides	NT3	astatine iodides
NT2	gallium halides	NT3	tungsten iodides	NT3	barium iodides
NT3	gallium bromides	NT3	uranium iodides	NT3	beryllium iodides
NT3	gallium chlorides	NT3	vanadium iodides	NT3	bismuth iodides
NT3	gallium fluorides	NT3	xenon iodides	NT3	boron iodides
NT3	gallium iodides	NT3	ytterbium iodides	NT3	cadmium iodides
NT2	iodides	NT3	yttrium iodides	NT3	calcium iodides
NT3	aluminium iodides	NT3	zinc iodides	NT3	californium iodides
NT3	americium iodides	NT3	zirconium iodides	NT3	cerium iodides
NT3	antimony iodides	NT2	lead halides	NT3	cesium iodides
NT3	argon iodides	NT3	lead bromides	NT3	chromium iodides
NT3	arsenic iodides	NT3	lead chlorides	NT3	cobalt iodides
NT3	astatine iodides	NT3	lead fluorides	NT3	copper iodides
NT3	barium iodides	NT3	lead iodides	NT3	curium iodides
NT3	beryllium iodides	NT2	lithium halides	NT3	dysprosium iodides
NT3	bismuth iodides	NT3	lithium bromides		

**NT3** einsteinium iodides  
**NT3** erbium iodides  
**NT3** europium iodides  
**NT3** fermium iodides  
**NT3** gadolinium iodides  
**NT3** gallium iodides  
**NT3** germanium iodides  
**NT3** gold iodides  
**NT3** hafnium iodides  
**NT3** holmium iodides  
**NT3** indium iodides  
**NT3** iron iodides  
**NT3** lanthanum iodides  
**NT3** lead iodides  
**NT3** lithium iodides  
**NT3** lutetium iodides  
**NT3** magnesium iodides  
**NT3** manganese iodides  
**NT3** mercury iodides  
**NT3** molybdenum iodides  
**NT3** neodymium iodides  
**NT3** neon iodides  
**NT3** neptunium iodides  
**NT3** nickel iodides  
**NT3** niobium iodides  
**NT3** nitrogen iodides  
**NT3** palladium iodides  
**NT3** phosphorus iodides  
**NT3** platinum iodides  
**NT3** plutonium iodides  
**NT3** polonium iodides  
**NT3** potassium iodides  
**NT3** praseodymium iodides  
**NT3** promethium iodides  
**NT3** protactinium iodides  
**NT3** rhenium iodides  
**NT3** rubidium iodides  
**NT3** samarium iodides  
**NT3** scandium iodides  
**NT3** selenium iodides  
**NT3** silicon iodides  
**NT3** silver iodides  
**NT3** sodium iodides  
**NT3** strontium iodides  
**NT3** tantalum iodides  
**NT3** technetium iodides  
**NT3** tellurium iodides  
**NT3** terbium iodides  
**NT3** thallium iodides  
**NT3** thorium iodides  
**NT3** thulium iodides  
**NT3** tin iodides  
**NT3** titanium iodides  
**NT3** tungsten iodides  
**NT3** uranium iodides  
**NT3** vanadium iodides  
**NT3** xenon iodides  
**NT3** ytterbium iodides  
**NT3** yttrium iodides  
**NT3** zinc iodides  
**NT3** zirconium iodides  
**NT2** iodine bromides  
**NT2** iodine chlorides  
**NT2** iodine fluorides  
**NT2** iodine oxides  
**NT2** oxyiodides  
**NT2** periodates  
**NT2** periodic acid  
**NT1** oxyhalides  
**NT2** oxybromides  
**NT2** oxychlorides  
**NT2** oxyfluorides  
**NT2** oxyiodides  
**RT** organic halogen compounds

### HALOGENATED ALICYCLIC HYDROCARBONS

2000-04-12

*UF* brominated alicyclic hydrocarbons

**\*BT1** organic halogen compounds  
**NT1** chlorinated alicyclic hydrocarbons  
**NT2** lindane  
**NT1** fluorinated alicyclic hydrocarbons  
**NT1** iodinated alicyclic hydrocarbons

### HALOGENATED ALIPHATIC HYDROCARBONS

1991-09-30

(Prior to October 1991, this concept was indexed by ORGANIC HALOGEN COMPOUNDS.)

**\*BT1** organic halogen compounds  
**NT1** brominated aliphatic hydrocarbons  
**NT2** bromoform  
**NT2** methyl bromide  
**NT1** chlorinated aliphatic hydrocarbons  
**NT2** carbon tetrachloride  
**NT2** chloroform  
**NT2** methyl chloride  
**NT2** pvc  
**NT2** vinyl chloride  
**NT1** fluorinated aliphatic hydrocarbons  
**NT2** carbon tetrafluoride  
**NT2** fluoroform  
**NT2** methyl fluoride  
**NT2** polytetrafluoroethylene  
**NT3** teflon  
**NT2** tedlar  
**NT1** freons  
**NT1** iodinated aliphatic hydrocarbons  
**NT2** iodoform  
**NT2** methyl iodide  
**RT** refrigerants

### HALOGENATED AROMATIC HYDROCARBONS

1991-10-01

(Prior to October 1991, this concept was indexed by AROMATICS and ORGANIC HALOGEN COMPOUNDS.)

**\*BT1** aromatics  
**\*BT1** organic halogen compounds  
**NT1** brominated aromatic hydrocarbons  
**NT1** chlorinated aromatic hydrocarbons  
**NT2** aldrin  
**NT2** polychlorinated biphenyls  
**NT1** fluorinated aromatic hydrocarbons  
**NT1** iodinated aromatic hydrocarbons

### halogenated hydrocarbons

ETDE: 2002-06-13

USE organic halogen compounds

### HALOGENATION

**BT1** chemical reactions  
**NT1** astatination  
**NT1** bromination  
**NT1** chlorination  
**NT2** sulfochlorination  
**NT1** fluorination  
**NT1** iodination

### HALOGENS

**\*BT1** nonmetals  
**NT1** astatine  
**NT1** bromine  
**NT1** chlorine  
**NT1** fluorine  
**NT1** iodine

### halpern-strutinski theory

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE angular distribution

### HALTHANE

INIS: 2000-04-12; ETDE: 1979-02-27

**\*BT1** polyurethanes

### ham

USE meat

### HAMADA-JOHNSTON POTENTIAL

**\*BT1** nucleon-nucleon potential

*RT* nuclear models

*RT* nuclear potential

### HAMAOKA-1 REACTOR

*Chubu Electric Power Co., Omaezaki, Shizuoka, Japan.*

*UF* chubu-1 reactor

**\*BT1** bwr type reactors

### HAMAOKA-2 REACTOR

*Chubu Electric Power Co., Omaezaki, Shizuoka, Japan.*

*UF* chubu-2 reactor

**\*BT1** bwr type reactors

### HAMAOKA-3 REACTOR

*Chubu Electric Power Co., Omaezaki, Shizuoka, Japan.*

*UF* chubu-3 reactor

**\*BT1** bwr type reactors

### HAMAOKA-4 REACTOR

1992-11-03

*Chubu Electric Power Co., Omaezaki, Shizuoka, Japan.*

*UF* chubu-4 reactor

**\*BT1** bwr type reactors

### HAMAOKA-5 REACTOR

2000-01-31

*Chubu Electric Power Co., Omaezaki, Shizuoka, Japan.*

*UF* chubu-5 reactor

**\*BT1** bwr type reactors

### hamburg synchrotron

USE desy

### HAMILTON-JACOBI EQUATIONS

**\*BT1** partial differential equations

*RT* equations of motion

*RT* hamiltonian function

*RT* mechanics

### hamilton operators

USE hamiltonians

### HAMILTONIAN FUNCTION

**BT1** functions

*RT* classical mechanics

*RT* equations of motion

*RT* hamilton-jacobi equations

*RT* hamiltonians

*RT* limit cycle

### HAMILTONIANS

*UF* energy operators

*UF* hamilton operators

**\*BT1** quantum operators

*RT* detailed balance principle

*RT* hamiltonian function

*RT* sudden approximation

### HAMM-UENTROP REACTOR

INIS: 1976-02-11; ETDE: 1976-04-19

**\*BT1** pwr type reactors

### HAMSTERS

*UF* chinese hamster

*UF* cricetus

*UF* mesocricetus

*UF* syrian hamster

**\*BT1** rodents

**HANARO REACTOR**

INIS: 1999-01-26; ETDE: 1999-08-30

High-flux Advanced Neutron Application Reactor, KAERI, Republic of Korea.

(The term KMR REACTOR was used by INIS prior to January 1999 and by ETDE prior to September 1999.)

UF *kmr reactor*

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 materials testing reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

**handbooks**

INIS: 2000-04-12; ETDE: 1980-03-29

USE manuals

**handcar event**

1994-10-14

A test made during OPERATION

WHEATSTONE.

(Prior to September 1994, this was a valid

ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**HANDICAPPED PEOPLE**

INIS: 2000-04-12; ETDE: 1980-01-15

Physically or mentally disadvantaged people.

\*BT1 minority groups

RT elderly people

RT low income groups

RT sociology

**handley event**

1994-10-14

A test made during OPERATION MANDREL.

(Prior to September 1994, this was a valid

ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**handling (data)**

USE data processing

**handling (materials)**

USE materials handling

**handling (wastes)**

USE waste management

**handling licenses**

INIS: 1976-12-08; ETDE: 1996-02-09

If appropriate use the descriptor MATERIALS

HANDLING together with the one below.

USE licenses

**HANDS**

\*BT1 arms

NT1 fingers

RT gloves

RT manipulators

**hanford-2 reactor**

Washington Public Power Supply System, Richland, Washington, USA. Name changed to Washington Public Power Supply System Nuclear Project Number 2, and current items are indexed to the abbreviated form WNP-2 REACTOR.

(Prior to August 2005 this was a valid descriptor.)

USE wnp-2 reactor

**hanford 305 test reactor**

2000-04-12

USE hew-305 reactor

**hanford atomic products operation**

USE hapo

**HANFORD ENGINEERING DEVELOPMENT LABORATORY**

INIS: 1995-02-16; ETDE: 1980-01-15

UF *hedl*

\*BT1 us doe

RT ffff reactor

RT hanford reservation

RT hapo

RT washington

**hanford neutron radiography facility**

INIS: 1979-09-18; ETDE: 1979-01-30

USE triga-1-hanford reactor

**HANFORD PRODUCTION REACTORS**

\*BT1 plutonium production reactors

**HANFORD RESERVATION**

INIS: 1976-10-29; ETDE: 1976-07-07

\*BT1 us doe

\*BT1 us erda

RT battelle pacific northwest laboratories

RT hanford engineering development laboratory

RT hapo

RT neutron source facilities

RT pasco basin

RT washington

**hankel functions**

USE bessel functions

**HANKEL TRANSFORM**

\*BT1 integral transformations

**hannover triga-mk-1 reactor**

2000-05-12

USE triga-1-hanover reactor

**HAPLOIDY**

BT1 ploidy

RT gametes

**HAPO**

UF *hanford atomic products operation*

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT battelle pacific northwest laboratories

RT hanford engineering development laboratory

RT hanford reservation

RT sequim bay

**HAPTOGLOBINS**

\*BT1 globulins-alpha

\*BT1 mucoproteins

**HARANG DISCONTINUITY**

UF *midnight discontinuity*

BT1 auroral oval

RT aurorae

RT ionosphere

**HARBORS**

1996-01-24

UF *ports*

RT inland waterways

RT marinas

RT moorings

RT seas

**hard coal**

INIS: 2000-03-28; ETDE: 1979-06-06

USE anthracite

**HARD COLLISION MODELS**

INIS: 1978-07-03; ETDE: 1978-04-05

Models which reduce the origin of high energy systems to a binary collision of the projectiles or some subunits thereof.

\*BT1 particle models

**HARD COMPONENT**

\*BT1 cosmic radiation

**HARD CORE PINCH**

BT1 pinch effect

RT linear hard core pinch devices

**HARD-CORE POTENTIAL**

1996-06-28

\*BT1 nuclear potential

RT jastrow theory

RT nucleons

**HARD FACING**

INIS: 2000-07-24; ETDE: 1978-07-05

UF *hard surfacing*

UF *surfacing, hard*

RT cladding

RT surface coating

**hard metals**

ETDE: 2002-06-13

USE cermets

**hard soldering**

USE brazing

**HARD-SPHERE MODEL**

RT gases

**hard surfacing**

INIS: 2000-07-24; ETDE: 1978-07-05

USE hard facing

**HARD X RADIATION**

\*BT1 x radiation

**HARDENING**

NT1 age hardening

NT1 dispersion hardening

NT1 precipitation hardening

NT1 quench hardening

NT1 radiation hardening

NT1 strain hardening

NT1 surface hardening

NT2 carburization

RT cold working

RT hardness

RT heat treatments

**hardening (spectral)**

USE spectral hardening

**hardhat event**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE plowshare project

**HARDNESS**

BT1 mechanical properties

NT1 microhardness

RT brinell hardness

RT hardening

RT knoop hardness

RT rockwell hardness

RT vickers hardness

**HARDTACK PROJECT**

2000-05-16

UF *project hardtack*

\*BT1 nuclear explosions

RT eniwetok

**HARMONIC GENERATION**

INIS: 2000-05-16; ETDE: 1986-01-14

UF *second-harmonic generation*

UF *third-harmonic generation*  
 BT1 frequency mixing  
 RT electromagnetic radiation  
 RT nonlinear optics  
 RT nonlinear problems  
 RT sound waves

**HARMONIC OSCILLATOR MODELS**

BT1 mathematical models  
 RT atomic models  
 RT harmonic oscillators  
 RT nuclear models  
 RT particle models

**HARMONIC OSCILLATORS**

RT anharmonic oscillators  
 RT equations of motion  
 RT harmonic oscillator models  
 RT mathematics  
 RT mechanics

**HARMONIC POTENTIAL**

\*BT1 nuclear potential

**harmonica devices**

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor. From June 1991 till March 1997 it referred to the since-deleted descriptor HARMONICA-2 DEVICE.)

USE thermonuclear devices

**HARMONICS**

*Eigenfrequency oscillations excited in a vibrating system.*

BT1 oscillations  
 NT1 cyclotron harmonics  
 RT lattice vibrations  
 RT mechanical vibrations  
 RT nonlinear problems  
 RT oscillation modes  
 RT plasma waves  
 RT resonance

**HARMONIE REACTOR**

*CEA/CEN, Cadarache, St. Paul Lez Durance, France.*

\*BT1 air cooled reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 fast reactors  
 \*BT1 research reactors  
 \*BT1 test reactors

**HARRIS-1 REACTOR**

*Carolina Power and Light Co., Bonsal, North Carolina, USA.*

UF *shearon harris-1 reactor*  
 \*BT1 pwr type reactors

**HARRIS-2 REACTOR**

*Carolina Power and Light Co., Bonsal, North Carolina, USA. Canceled in 1983 before construction began.*

UF *shearon harris-2 reactor*  
 \*BT1 pwr type reactors

**HARRIS-3 REACTOR**

*Carolina Power and Light Co., Bonsal, North Carolina, USA. Canceled in 1981 before construction began.*

UF *shearon harris-3 reactor*  
 \*BT1 pwr type reactors

**HARRIS-4 REACTOR**

*Carolina Power and Light Co., Bonsal, North Carolina, USA. Canceled in 1981 before construction began.*

UF *shearon harris-4 reactor*  
 \*BT1 pwr type reactors

**harry event**

INIS: 1994-10-14; ETDE: 1981-07-06  
*A test made during PROJECT UPSHOT. (Prior to September 1994, this was a valid ETDE descriptor.)*

USE atmospheric explosions  
 USE nuclear explosions

**HARTLEPOOL REACTOR**

*Hartlepool, Durham, United Kingdom.*

\*BT1 agr type reactors  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**HARTMANN NUMBER**

BT1 dimensionless numbers  
 RT drag  
 RT fluid flow  
 RT magnetohydrodynamics  
 RT viscosity

**hartree approximation**

USE hartree-fock method

**HARTREE-FOCK-BOGOLYUBOV THEORY**

1976-02-11

*The Hartree-Fock approach as applied to self-consistent fields in nuclei.*

RT bogolyubov transformation  
 RT boson expansion  
 RT hartree-fock method  
 RT nuclear models  
 RT nuclear structure  
 RT self-consistent field

**HARTREE-FOCK METHOD**

UF *fock method*  
 UF *fock self-consistent field*  
 UF *hartree approximation*  
 \*BT1 approximations  
 RT atomic models  
 RT electronic structure  
 RT hartree-fock-bogolyubov theory  
 RT nuclear models  
 RT nuclear structure  
 RT self-consistent field

**HARTSVILLE-1 REACTOR**

*TVA, Hartsville, Tennessee, USA. Canceled in 1984 after construction began (1976).*

\*BT1 bwr type reactors  
 RT ge standard reactor

**HARTSVILLE-2 REACTOR**

*TVA, Hartsville, Tennessee, USA. Canceled in 1984 after construction began (1976).*

\*BT1 bwr type reactors  
 RT ge standard reactor

**HARTSVILLE-3 REACTOR**

*TVA, Hartsville, Tennessee, USA. Canceled in 1982 before construction began.*

\*BT1 bwr type reactors  
 RT ge standard reactor

**HARTSVILLE-4 REACTOR**

*TVA, Hartsville, Tennessee, USA. Canceled in 1982 before construction began.*

\*BT1 bwr type reactors  
 RT ge standard reactor

**HARVARD SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

**HARVEST PROCESS**

INIS: 2000-04-12; ETDE: 1977-01-10  
*Developed by UKAEA and British Nuclear Fuels Ltd.; fission products are reduced to solid oxides, fused into a glass, then stored in metal flasks under water.*

\*BT1 radioactive waste processing  
 RT fuel cycle  
 RT nuclear materials management  
 RT radioactive waste storage  
 RT solidification  
 RT vitrification

**HARVESTING**

INIS: 1992-03-27; ETDE: 1976-09-14

RT agriculture  
 RT biomass  
 RT crops  
 RT horticulture  
 RT silviculture  
 RT wood

**HARVESTING EQUIPMENT**

INIS: 1999-03-08; ETDE: 1979-10-23

BT1 equipment  
 RT farm equipment  
 RT forestry  
 RT wood products industry

**harwell pluto reactor**

USE pluto reactor

**HARWELL SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

**harwell synchrotron**

USE nimrod

**HASSIUM**

2004-03-19

(Prior to March 2004 ELEMENT 108 was used for this element.)

UF *eka-osmium*  
 UF *element 108*  
 UF *unnioctium*  
 \*BT1 transactinide elements

**HASSIUM 263**

2007-01-30

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hassium isotopes  
 \*BT1 heavy nuclei

**HASSIUM 264**

2004-03-19

(Prior to March 2004 ELEMENT 108 264 was used for this concept.)

UF *element 108 264*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hassium isotopes  
 \*BT1 heavy nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**HASSIUM 265**

2004-03-19

(Prior to March 2004 ELEMENT 108 265 was used for this concept.)

UF *element 108 265*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hassium isotopes  
 \*BT1 heavy nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes



**HASSIUM 266**

2004-03-19

(Prior to March 2004 ELEMENT 108 266 was used for this concept.)

UF element 108 266

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**HASSIUM 267**

2004-11-30

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**HASSIUM 269**

2007-01-30

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HASSIUM 270**

2004-03-19

(Prior to March 2004 ELEMENT 108 270 was used for this concept.)

UF element 108 270

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HASSIUM 271**

2006-09-04

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HASSIUM 272**

2007-01-30

- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HASSIUM 274**

2007-01-30

- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes

**HASSIUM 275**

2007-01-30

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**HASSIUM 276**

2007-01-30

- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes

**HASSIUM COMPOUNDS**

2004-03-19

(Prior to March 2004 ELEMENT 108 COMPOUNDS was used for this concept.)

UF element 108 compounds

- \*BT1 transactinide compounds

**HASSIUM ISOTOPES**

2004-03-19

(Prior to March 2004 ELEMENT 108 ISOTOPES was used for this concept.)

UF element 108 isotopes

- BT1 isotopes
- NT1 hassium 263
- NT1 hassium 264
- NT1 hassium 265
- NT1 hassium 266
- NT1 hassium 267
- NT1 hassium 269
- NT1 hassium 270
- NT1 hassium 271
- NT1 hassium 272
- NT1 hassium 274
- NT1 hassium 275
- NT1 hassium 276

**HASTELLOY B**

1993-10-03

- \*BT1 alloy-ni65mo28fe5

**HASTELLOY C**

1993-10-03

- \*BT1 alloy-ni54mol7cr16fe6w4

**hastelloy c-276**

INIS: 2000-04-12; ETDE: 1979-01-30

USE hastelloys

**hastelloy c-4**

INIS: 2000-04-12; ETDE: 1979-01-30

USE hastelloys

**hastelloy f**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE hastelloys

**HASTELLOY N**

1993-10-03

- \*BT1 alloy-ni70mol7cr7fe5

**HASTELLOY S**

INIS: 1993-10-03; ETDE: 1979-08-09

- \*BT1 alloy-ni62cr16mo15fe3

**HASTELLOY X**

1993-10-03

- \*BT1 alloy-ni49cr22fe18mo9

**HASTELLOY XR**

INIS: 1993-10-03; ETDE: 1982-02-23

- \*BT1 alloy-ni50cr22fe18mo9

**HASTELLOYS**

UF hastelloy c-276

UF hastelloy c-4

UF hastelloy f

- \*BT1 nickel base alloys

NT1 alloy-ni49cr22fe18mo9

NT2 hastelloy x

NT1 alloy-ni50cr22fe18mo9

NT2 hastelloy xr

NT1 alloy-ni54mol7cr16fe6w4

NT2 hastelloy c

NT1 alloy-ni62cr16mo15fe3

NT2 hastelloy s

NT1 alloy-ni65mo28fe5

NT2 hastelloy b

NT1 alloy-ni70mol7cr7fe5

NT2 hastelloy n

NT2 inor-8

RT corrosion resistant alloys

**HATCH-1 REACTOR**

Southern Nuclear Operating Co., Inc., Baxley, Georgia, USA.

UF edwin i. hatch-1 reactor

- \*BT1 bwr type reactors

**HATCH-2 REACTOR**

Southern Nuclear Operating Co., Inc., Baxley, Georgia, USA.

UF edwin i. hatch-2 reactor

- \*BT1 bwr type reactors

**hatchettolite**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE oxide minerals

USE uranium minerals

**HATCHING**

INIS: 1992-09-18; ETDE: 1975-10-28

RT eggs

**HATCHOBARU GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1977-01-31

BT1 geothermal fields

RT japan

**HAULAGE EQUIPMENT**

INIS: 2000-04-12; ETDE: 1981-04-17

- \*BT1 materials handling equipment

NT1 conveyors

NT2 belt conveyors

NT2 chain conveyors

NT1 loaders

NT2 cutter loaders

NT3 coal plows

NT3 continuous miners

NT3 heading machines

NT3 shearer loaders

NT1 mine cars

RT materials handling

RT mine haulage

RT mining equipment

**HAUSDORFF SPACE**

- \*BT1 mathematical space

**HAUSER-FESHBACH THEORY**

BT1 nuclear theory

RT compound nuclei

RT inelastic scattering

RT nuclear reactions

**HAVAR**

1993-10-03

- \*BT1 alloy-co43cr20fe18ni13w3

**HAVEN-1 REACTOR**

INIS: 1978-08-14; ETDE: 1978-06-14

Wisconsin Electric Power Co., Haven, Wisconsin, USA. Canceled in 1980 before construction began. Standardized plant of the Wisconsin Utilities Project.

(Prior to July 1978 known as KOSHKONONG-1 REACTOR, and older material is so indexed.)

UF wup-1 reactor

- \*BT1 pwr type reactors

NT1 koshkonong-1 reactor

**HAVEN-2 REACTOR**

INIS: 1978-08-14; ETDE: 1978-06-14

Wisconsin Electric Power Co., Haven, Wisconsin, USA. Canceled in 1978 before construction began. Standardized plant of the Wisconsin Utilities Project.

(Prior to July 1978 known as KOSHKONONG-2 REACTOR, and older material is so indexed.)

UF wup-2 reactor

- \*BT1 pwr type reactors

NT1 koshkonong-2 reactor

**HAWAII**

BT1 islands

- \*BT1 usa

RT kilauea volcano

RT pacific ocean

**HAYNES 188 ALLOY**

1993-10-03

\*BT1 alloy-co36cr22ni22w15fe3

**HAYNES 25 ALLOY**

1993-10-03

\*BT1 alloy-co54cr20w15ni10

**HAYNES ALLOYS**

1996-09-12

UF alloy-co62cr28mo6ni3

UF alloy-hs-21

UF haynes stellite no 21

\*BT1 cobalt base alloys

NT1 alloy-co36cr22ni22w15fe3

NT2 haynes 188 alloy

NT1 alloy-co54cr20w15ni10

NT2 alloy-hs-25

NT2 haynes 25 alloy

NT1 alloy-co60cr30w4

NT2 stellite 6

**haynes stellite 6b**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE alloy-co60cr30w4

**haynes stellite no 21**

1997-01-28

(Until September 1996 this was a valid descriptor.)

USE haynes alloys

USE stellite

**haywood model**

2000-03-28

(Until July 1996 this was a valid descriptor.)

USE neutron transport theory

**haz**

INIS: 1984-04-25; ETDE: 1984-05-23

USE heat affected zone

**HAZARDOUS MATERIALS**

INIS: 1981-08-18; ETDE: 1977-01-10

Not for RADIOACTIVE MATERIALS.

UF poisons (chemical)

BT1 materials

NT1 toxic materials

NT2 toxins

NT3 endotoxins

NT3 mycotoxins

NT4 aflatoxins

RT chemical wastes

RT detoxification

RT environmental exposure

RT lethal doses

RT nonradioactive wastes

RT toxic substances control acts

RT toxicity

RT us superfund

RT waste management

RT wastes

**HAZARDOUS MATERIALS SPILLS**

INIS: 1991-09-30; ETDE: 1980-01-15

(Prior to October 1991, this concept was indexed by HAZARDOUS MATERIALS and ACCIDENTS.)

UF gasoline spills

BT1 accidents

RT chemical spills

RT gas spills

RT natural attenuation

RT oil spills

RT pollution

**HAZARDS**

UF global risk

UF risks

NT1 fire hazards

NT1 health hazards

NT2 radiation hazards

RT accidents

RT damage

RT ethical aspects

RT excursions

RT failures

RT fires

RT human factors engineering

RT insurance

RT liabilities

RT pressure release

RT public relations

RT reliability

RT risk assessment

RT rock bursts

RT sabotage

RT safety

RT safety engineering

RT safety showers

RT workmens compensation

**hazen process**

INIS: 2000-04-12; ETDE: 1978-04-27

Totally dry chemical coal cleaning process in which the mineral component in pulverized coal is reacted with gaseous iron pentacarbonyl (toxic) which makes mineral sulfur and other mineral components strongly magnetic, so they can be separated by dry magnetic separation methods.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**hb robinson-2**

USE robinson-2 reactor

**hbt-ep**

INIS: 1999-07-26; ETDE: 2002-06-13

USE columbia high-beta tokamak

**HBTX DEVICES**

1985-11-18

\*BT1 reversed-field pinch devices

RT reverse-field pinch

RT united kingdom

**HBWR REACTOR**

UF halden heavy boiling water reactor

\*BT1 bhwr type reactors

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 power reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

**hcda**

INIS: 2000-04-12; ETDE: 1983-03-07

USE reactor core disruption

**HCG**

UF human chorionic gonadotropin

\*BT1 gonadotropins

RT gonads

**HCLWR TYPE REACTORS**

INIS: 1988-11-16; ETDE: 1988-12-02

High conversion light water reactors.

\*BT1 plutonium reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**HCP LATTICES**

UF hexagonal close packed

\*BT1 hexagonal lattices

**hd-556**

INIS: 2000-04-12; ETDE: 1979-08-09

(Prior to November 1983 ALLOY-HD-556 was used for this concept in ETDE; from November 1983 till March 1997 ALLOY-FE31CR21CO20NI20MO3W2 was used for this concept in ETDE.)

USE iron base alloys

**hd 8077**

INIS: 2000-04-12; ETDE: 1979-08-09

USE nickel base alloys

**HDEHP**

UF bis(2-ethylhexyl)phosphoric acid

UF di-2-ethylhexylphosphoric acid

SF dehp

\*BT1 phosphoric acid esters

**hdo**

1996-06-19

USE heavy water

**HDR REACTOR**

UF grosswetzheim hdr reactor

UF heissdampfreaktoranlage

UF kahl-main reactor

\*BT1 bwr type reactors

\*BT1 experimental reactors

**HE-3 COUNTERS**

\*BT1 neutron detectors

\*BT1 proportional counters

**he method**

INIS: 2000-04-12; ETDE: 1980-02-11

USE heat exchanger method

**HEAD**

1999-04-06

BT1 body

NT1 face

NT2 eyes

NT3 conjunctiva

NT3 cornea

NT3 crystalline lens

NT3 lacrimal ducts

NT3 retina

NT3 uvea

NT2 nose

RT brain

RT carotid arteries

RT oral cavity

RT sense organs

RT skull

**HEAD END PROCESSES**

NT1 decladding

NT2 chemical decladding

NT2 mechanical decladding

NT1 voloxidation process

RT reprocessing

**HEADING MACHINES**

INIS: 2000-04-12; ETDE: 1978-06-14

\*BT1 cutter loaders

RT coal mines

RT mining

**HEALING**

BT1 biological recovery

RT cell division

RT wounds

**health (public)**

INIS: 1982-12-03; ETDE: 2002-06-13

USE public health

**HEALTH HAZARDS**

BT1 hazards

NT1 radiation hazards

RT drug abuse

RT first aid  
 RT injuries  
 RT maximum credible accident  
 RT occupational safety  
 RT preventive medicine  
 RT public health  
 RT quarantine  
 RT radiation protection  
 RT radication  
 RT safety  
 RT us occupational safety and health act

**health insurance**

INIS: 1990-12-06; ETDE: 1990-10-09  
 (Prior to December 1990, this was a valid descriptor.)

USE insurance

**health physics**

USE radiation protection

**health physics research reactor**

2000-04-12

USE hprr reactor

**HEALTH SERVICES**

INIS: 1999-12-07; ETDE: 1978-10-23

BT1 social services  
 RT hospitals  
 RT human populations  
 RT medical establishments  
 RT social impact  
 RT socio-economic factors

**HEARINGS**

2000-05-17

UF congressional hearings  
 BT1 document types  
 RT administrative procedures  
 RT arbitration  
 RT courts  
 RT dispute settlements  
 RT laws  
 RT lawsuits  
 RT legislation  
 RT licensing procedures  
 RT meetings

**HEART**

BT1 cardiovascular system  
 \*BT1 organs  
 NT1 myocardium  
 NT1 pericardium  
 RT aorta  
 RT blood circulation  
 RT cardiac pacemakers  
 RT cardiography  
 RT cardiotonics  
 RT cardiovascular agents  
 RT chest  
 RT coronaries  
 RT electrocardiograms  
 RT mechanical heart  
 RT mediastinum

**heart disease**

INIS: 2000-04-12; ETDE: 1981-01-30

USE cardiovascular diseases

**HEART FAILURE**

INIS: 1981-08-06; ETDE: 1976-07-07

BT1 symptoms  
 RT biological shock  
 RT biological stress  
 RT cardiovascular diseases  
 RT coronaries

**HEAT**

2000-05-17

BT1 energy  
 NT1 absorption heat

NT1 combustion heat  
 NT1 process heat  
 NT2 geothermal process heat  
 NT2 solar process heat  
 NT1 waste heat  
 RT air heaters  
 RT energy recovery  
 RT heat recovery  
 RT heat transfer  
 RT heaters  
 RT heating  
 RT heating load

**heat (process)**

INIS: 1986-03-04; ETDE: 2002-06-13

USE process heat

**HEAT AFFECTED ZONE**

UF haz  
 BT1 zones  
 RT welding

**heat capacity**

USE specific heat

**heat dissipation**

(Prior to 1985 THERMAL DIFFUSION was used for this concept.)

SEE cooling  
 SEE energy losses  
 SEE heat transfer  
 SEE thermal diffusivity  
 SEE thermal effluents

**HEAT DISTRIBUTION SYSTEMS**

INIS: 2000-05-04; ETDE: 1976-05-13

UF underground heat distribution systems  
 BT1 energy systems  
 RT district heating

**heat effects**

INIS: 2000-04-12; ETDE: 1975-10-28

USE temperature dependence

**heat emission systems**

2006-03-31

SEE heat exchangers  
 SEE heating systems  
 SEE space heaters

**HEAT ENGINES**

INIS: 1993-02-18; ETDE: 1975-09-11

*A machine that converts heat into work (mechanical energy).*

BT1 engines  
 NT1 internal combustion engines  
 NT2 diesel engines  
 NT2 direct injection engines  
 NT2 dual-fuel engines  
 NT2 gas turbine engines  
 NT2 ramjet engines  
 NT2 rotary engines  
 NT3 wankel engines  
 NT2 spark ignition engines  
 NT3 wankel engines  
 NT2 stratified charge engines  
 NT2 turbopan engines  
 NT2 turbojet engines  
 NT1 nitinol heat engines  
 NT1 rankine cycle engines  
 NT1 rocket engines  
 NT1 solar heat engines  
 NT1 stirling engines  
 RT solar-assisted power systems  
 RT thermodynamic cycles

**HEAT EXCHANGER METHOD**

INIS: 2000-04-12; ETDE: 1980-02-11

*Crystal growth method which utilizes directional solidification from the melt where*

*the temperature gradient in the solid is controlled by a heat exchanger.*

UF he method  
 UF schmid-vicchnicki technique  
 BT1 crystal growth methods  
 RT crystal growth  
 RT monocrystals

**HEAT EXCHANGERS**

UF coolers  
 UF fluidized bed heat exchangers  
 SF condensers  
 SF enthalpy wheels  
 SF heat emission systems  
 NT1 convectors  
 NT1 direct contact heat exchangers  
 NT1 in-vessel heat exchangers  
 NT1 radiators  
 NT1 water coolers  
 RT cooling  
 RT cooling towers  
 RT evaporators  
 RT heat pumps  
 RT heat recovery equipment  
 RT heat transfer  
 RT heating  
 RT isolation condensers  
 RT reactor components  
 RT reactor cooling systems  
 RT regenerators  
 RT steam condensers  
 RT steam generators  
 RT working fluids

**HEAT EXTRACTION**

INIS: 1986-03-04; ETDE: 1975-08-19

UF extraction (heat)  
 RT cooling  
 RT cooling time  
 RT heat recovery  
 RT heat recovery equipment  
 RT heat transfer

**heat flow**

ETDE: 1994-08-18

(Prior to January 1983 HEAT TRANSFER was used for this concept.)

USE heat flux

**HEAT FLUX**

INIS: 1977-03-01; ETDE: 1977-04-12

UF heat flow  
 NT1 critical heat flux  
 RT burnout  
 RT dryout  
 RT heat transfer

**HEAT GAIN**

INIS: 2000-04-12; ETDE: 1979-02-23

\*BT1 heat transfer  
 RT cooling load  
 RT direct gain systems  
 RT heating load  
 RT solar fraction  
 RT thermal bridges

**HEAT LOSSES**

INIS: 1976-02-05; ETDE: 1975-08-19

\*BT1 energy losses  
 \*BT1 heat transfer  
 RT dissipation factor  
 RT heat recovery equipment  
 RT infrared thermography  
 RT thermal bridges

**HEAT METERS**

INIS: 2000-04-12; ETDE: 1981-10-24

*Devices to measure the energy flow into or out of a working fluid passing through a thermal system.*

UF btu meters

\*BT1 meters

## HEAT MIRRORS

INIS: 2000-04-12; ETDE: 1979-02-23

*Thin, transparent optical films which are reflective to long-wave infrared radiation.*

BT1 mirrors  
RT coatings  
RT films  
RT glazing materials  
RT reflective coatings  
RT solar control films  
RT thermal insulation  
RT windows

### heat of absorption

USE absorption heat

### heat of adsorption

USE adsorption heat

### heat of combustion

USE combustion heat

### heat of dissociation

USE dissociation heat

### heat of formation

USE formation heat

### heat of fusion

USE fusion heat

### heat of mixing

USE mixing heat

### heat of reaction

USE reaction heat

### heat of solution

USE solution heat

### heat of sublimation

USE sublimation heat

### heat of transition

USE transition heat

### heat of vaporization

USE vaporization heat

### heat of wetting

INIS: 2000-04-12; ETDE: 1984-11-08

USE wetting heat

## HEAT PIPE WICKS

INIS: 1992-07-21; ETDE: 1976-07-07

RT capillary flow  
RT heat pipes

## HEAT PIPES

*Heat-transfer devices, frequently associated with thermionic converters. Not pipes for transporting hot fluids from place to place.*

UF chemical heat pipes  
RT capillary flow  
RT heat pipe wicks  
RT heat transfer  
RT pipes

## HEAT PRODUCTION

2006-03-31

\*BT1 energy conversion  
RT boilers  
RT furnaces  
RT heaters  
RT microgeneration  
RT space heating

## HEAT PUMPS

1979-09-18

NT1 air source heat pumps  
NT1 chemical heat pumps

NT1 gas heat pumps  
NT1 ground source heat pumps  
NT1 solar-assisted heat pumps  
NT1 water source heat pumps  
RT coefficient of performance  
RT cooling  
RT electric heating  
RT heat exchangers  
RT heat transfer  
RT heating  
RT pumps  
RT refrigeration  
RT working fluids

## HEAT RATE

INIS: 1993-06-04; ETDE: 1986-07-25

*Expression of the conversion efficiency of a power plant; for example Btu per kWhr.*

BT1 efficiency  
RT performance  
RT thermal efficiency  
RT thermal power plants

## HEAT RECOVERY

1986-03-04

BT1 energy recovery  
RT heat  
RT heat extraction  
RT heat recovery equipment  
RT heat transfer  
RT humidity recovery  
RT waste heat utilization

## HEAT RECOVERY EQUIPMENT

INIS: 1992-02-04; ETDE: 1977-06-02

BT1 equipment  
RT heat exchangers  
RT heat extraction  
RT heat losses  
RT heat recovery  
RT waste heat boilers

## HEAT RESISTANT MATERIALS

INIS: 1994-06-27; ETDE: 1978-11-14

BT1 materials  
NT1 heat resisting alloys  
NT2 alloy-co36cr22ni22w15fe3  
NT3 haynes 188 alloy  
NT2 alloy-co54cr20w15ni10  
NT3 alloy-hs-25  
NT3 haynes 25 alloy  
NT2 alloy-co60cr30w4  
NT3 stellite 6  
NT2 alloy-d-979  
NT2 alloy-fe44ni33cr21  
NT3 incoloy 800h  
NT2 alloy-fe46ni33cr21  
NT3 incoloy 800  
NT3 incoloy 802  
NT2 alloy-mo99  
NT3 alloy-tzm  
NT3 alloy-zm-2a  
NT2 alloy-n-10m  
NT2 alloy-n-9m  
NT2 alloy-ni41fe40cr16nb3  
NT3 inconel 706  
NT2 alloy-ni43fe30cr22mo3  
NT3 incoloy 825  
NT2 alloy-ni43fe33cr16mo3  
NT3 nimonic pe16  
NT2 alloy-ni46cr23co19ti5al4  
NT3 alloy-in-939  
NT2 alloy-ni49cr22fe18mo9  
NT3 hastelloy x  
NT2 alloy-ni50co20cr15al5mo5  
NT3 nimonic 105  
NT2 alloy-ni50cr22fe18mo9  
NT3 hastelloy xr  
NT2 alloy-ni50mo32cr15si3  
NT2 alloy-ni51cr48

NT3 inconel 671  
NT2 alloy-ni53cr19fe19nb5mo3  
NT3 inconel 718  
NT2 alloy-ni54cr22co13mo9  
NT3 inconel 617  
NT2 alloy-ni54mo17cr16fe6w4  
NT3 hastelloy c  
NT2 alloy-ni55cr19co11mo10ti3  
NT3 rene 41  
NT2 alloy-ni58cr20co14mo4ti3  
NT3 waspaloy  
NT2 alloy-ni59cr20co17ti2  
NT2 alloy-ni59cr30fe9  
NT3 inconel 690  
NT2 alloy-ni60co15cr10al6ti5mo3  
NT3 alloy-in-100  
NT2 alloy-ni60fe24cr16  
NT3 nichrome  
NT2 alloy-ni61cr16co9al3ti3w3  
NT3 alloy-in-738  
NT2 alloy-ni61cr22mo9nb4fe3  
NT3 inconel 625  
NT2 alloy-ni62cr16mo15fe3  
NT3 hastelloy s  
NT2 alloy-ni65cr25mo10  
NT3 nimonic 86  
NT2 alloy-ni70mo17cr7fe5  
NT3 hastelloy n  
NT3 inor-8  
NT2 alloy-ni73cr15fe7ti3  
NT3 inconel x750  
NT2 alloy-ni73cr20mn3nb3  
NT3 inconel 82  
NT2 alloy-ni74cr13al6mo4  
NT3 inconel 713c  
NT2 alloy-ni75cr12al6mo5  
NT3 inconel 713lc  
NT2 alloy-ni76cr15fe8  
NT3 inconel 600  
NT2 alloy-ni76cr20ti2  
NT3 nimonic 80a  
NT2 alloy-ni77cr20ti2  
NT2 alloy-nt25a5  
NT2 alloy-ra-333  
NT2 alloy-s-590  
NT2 alloy-s-816  
NT2 alloy-v-36  
NT2 alloy-zr97nb3  
NT2 alloy-zr98sn-2  
NT3 zircaloy 2  
NT2 alloy-zr98sn-4  
NT3 zircaloy 4  
NT2 enduro  
NT2 incoloy 901  
NT2 rene 80  
NT2 rene 95  
NT2 steel-cr12  
NT3 stainless steel-403  
NT2 steel-cr12moniv  
NT2 steel-cr12mov  
NT3 alloy-ht-9  
NT2 steel-cr13  
NT3 stainless steel-410  
NT2 steel-cr13al  
NT3 stainless steel-405  
NT2 steel-cr15ni15motib  
NT2 steel-cr16  
NT3 stainless steel-430  
NT2 steel-cr16ni  
NT2 steel-cr16ni13monbv  
NT2 steel-cr16ni15mo3nb  
NT2 steel-cr16ni16monb  
NT2 steel-cr16ni8mo2  
NT3 stainless steel-16-8-2  
NT2 steel-cr17cu4ni4nb-1  
NT3 stainless steel-17-4ph  
NT2 steel-cr17mo  
NT3 stainless steel-440  
NT2 steel-cr17ni12mo3

NT3 stainless steel-316  
 NT2 steel-cr17ni12mo3-l  
 NT3 stainless steel-316l  
 NT3 stainless steel-zcnd17-13  
 NT2 steel-cr17ni12monb  
 NT2 steel-cr17ni13  
 NT2 steel-cr17ni13mo2ti  
 NT2 steel-cr17ni13mo3ti  
 NT2 steel-cr17ni4mo3  
 NT2 steel-cr17ni7  
 NT3 stainless steel-301  
 NT2 steel-cr18ni10  
 NT3 stainless steel-18-10  
 NT2 steel-cr18ni10-l  
 NT2 steel-cr18ni10ti  
 NT3 stainless steel-321  
 NT2 steel-cr18ni11  
 NT3 steel-x6crni1811  
 NT2 steel-cr18ni11nb  
 NT3 stainless steel-347  
 NT2 steel-cr18ni11nbco  
 NT3 stainless steel-348  
 NT2 steel-cr18ni12  
 NT3 stainless steel-305  
 NT2 steel-cr18ni12ti  
 NT2 steel-cr18ni8  
 NT3 stainless steel-18-8  
 NT2 steel-cr18ni9  
 NT3 stainless steel-302  
 NT2 steel-cr18ni9ti  
 NT2 steel-cr19ni10  
 NT3 stainless steel-304  
 NT2 steel-cr19ni10-l  
 NT3 stainless steel-304l  
 NT2 steel-cr20ni11  
 NT3 stainless steel-308  
 NT2 steel-cr20ni11-l  
 NT3 stainless steel-308l  
 NT2 steel-cr21mn9ni6  
 NT3 stainless steel-21-6-9  
 NT2 steel-cr23ni14  
 NT3 stainless steel-309  
 NT3 stainless steel-309s  
 NT2 steel-cr23ni18  
 NT2 steel-cr25  
 NT3 stainless steel-446  
 NT2 steel-cr25ni20  
 NT3 alloy-hk-40  
 NT3 stainless steel-310  
 NT2 steel-cr2moninb  
 NT2 steel-cr2mov  
 NT2 steel-ni25cr20  
 NT3 stainless steel-20-25  
 NT2 steel-ni26cr15ti2moyalb  
 NT3 alloy-a-286  
 NT2 steel-nimocr  
 NT2 tophet  
 NT2 tribaloy 800  
 NT2 udimet alloys  
 NT3 alloy-ni53co19cr15mo5al4ti3  
 NT4 udimet 700  
 NT3 udimet 500

RT refractories

## HEAT RESISTING ALLOYS

1996-11-13

UF refractory alloys

UF superalloys

BT1 alloys

\*BT1 heat resistant materials

NT1 alloy-co36cr22ni22w15fe3

NT2 haynes 188 alloy

NT1 alloy-co54cr20w15ni10

NT2 alloy-hs-25

NT2 haynes 25 alloy

NT1 alloy-co60cr30w4

NT2 stellite 6

NT1 alloy-d-979

NT1 alloy-fe44ni33cr21

NT2 incoloy 800h  
 NT1 alloy-fe46ni33cr21  
 NT2 incoloy 800  
 NT2 incoloy 802  
 NT1 alloy-mo99  
 NT2 alloy-tzm  
 NT2 alloy-zm-2a  
 NT1 alloy-n-10m  
 NT1 alloy-n-9m  
 NT1 alloy-ni41fe40cr16nb3  
 NT2 inconel 706  
 NT1 alloy-ni43fe30cr22mo3  
 NT2 incoloy 825  
 NT1 alloy-ni43fe33cr16mo3  
 NT2 nimonic pe16  
 NT1 alloy-ni46cr23co19ti5al4  
 NT2 alloy-in-939  
 NT1 alloy-ni49cr22fe18mo9  
 NT2 hastelloy x  
 NT1 alloy-ni50co20cr15al5mo5  
 NT2 nimonic 105  
 NT1 alloy-ni50cr22fe18mo9  
 NT2 hastelloy xr  
 NT1 alloy-ni50mo32cr15si3  
 NT1 alloy-ni51cr48  
 NT2 inconel 671  
 NT1 alloy-ni53cr19fe19nb5mo3  
 NT2 inconel 718  
 NT1 alloy-ni54cr22co13mo9  
 NT2 inconel 617  
 NT1 alloy-ni54mo17cr16fe6w4  
 NT2 hastelloy c  
 NT1 alloy-ni55cr19co11mo10ti3  
 NT2 rene 41  
 NT1 alloy-ni58cr20co14mo4ti3  
 NT2 waspaloy  
 NT1 alloy-ni59cr20co17ti2  
 NT1 alloy-ni59cr30fe9  
 NT2 inconel 690  
 NT1 alloy-ni60co15cr10al6ti5mo3  
 NT2 alloy-in-100  
 NT1 alloy-ni60fe24cr16  
 NT2 nichrome  
 NT1 alloy-ni61cr16co9al3ti3w3  
 NT2 alloy-in-738  
 NT1 alloy-ni61cr22mo9nb4fe3  
 NT2 inconel 625  
 NT1 alloy-ni62cr16mo15fe3  
 NT2 hastelloy s  
 NT1 alloy-ni65cr25mo10  
 NT2 nimonic 86  
 NT1 alloy-ni70mo17cr7fe5  
 NT2 hastelloy n  
 NT2 inor-8  
 NT1 alloy-ni73cr15fe7ti3  
 NT2 inconel x750  
 NT1 alloy-ni73cr20mn3nb3  
 NT2 inconel 82  
 NT1 alloy-ni74cr13al6mo4  
 NT2 inconel 713c  
 NT1 alloy-ni75cr12al6mo5  
 NT2 inconel 713lc  
 NT1 alloy-ni76cr15fe8  
 NT2 inconel 600  
 NT1 alloy-ni76cr20ti2  
 NT2 nimonic 80a  
 NT1 alloy-ni77cr20ti2  
 NT1 alloy-nt25a5  
 NT1 alloy-ra-333  
 NT1 alloy-s-590  
 NT1 alloy-s-816  
 NT1 alloy-v-36  
 NT1 alloy-zr97nb3  
 NT1 alloy-zr98sn-2  
 NT2 zircaloy 2  
 NT1 alloy-zr98sn-4  
 NT2 zircaloy 4  
 NT1 enduro  
 NT1 incoloy 901

NT1 rene 80  
 NT1 rene 95  
 NT1 steel-cr12  
 NT2 stainless steel-403  
 NT1 steel-cr12moniv  
 NT1 steel-cr12mov  
 NT2 alloy-ht-9  
 NT1 steel-cr13  
 NT2 stainless steel-410  
 NT1 steel-cr13al  
 NT2 stainless steel-405  
 NT1 steel-cr15ni15motib  
 NT1 steel-cr16  
 NT2 stainless steel-430  
 NT1 steel-cr16ni  
 NT1 steel-cr16ni13monbv  
 NT1 steel-cr16ni15mo3nb  
 NT1 steel-cr16ni16monb  
 NT1 steel-cr16ni8mo2  
 NT2 stainless steel-16-8-2  
 NT1 steel-cr17cu4ni4nb-l  
 NT2 stainless steel-17-4ph  
 NT1 steel-cr17mo  
 NT2 stainless steel-440  
 NT1 steel-cr17ni12mo3  
 NT2 stainless steel-316  
 NT1 steel-cr17ni12mo3-l  
 NT2 stainless steel-316l  
 NT2 stainless steel-zcnd17-13  
 NT1 steel-cr17ni12monb  
 NT1 steel-cr17ni13  
 NT1 steel-cr17ni13mo2ti  
 NT1 steel-cr17ni13mo3ti  
 NT1 steel-cr17ni4mo3  
 NT1 steel-cr17ni7  
 NT2 stainless steel-301  
 NT1 steel-cr18ni10  
 NT2 stainless steel-18-10  
 NT1 steel-cr18ni10-l  
 NT1 steel-cr18ni10ti  
 NT2 stainless steel-321  
 NT1 steel-cr18ni11  
 NT2 steel-x6crni1811  
 NT1 steel-cr18ni11nb  
 NT2 stainless steel-347  
 NT1 steel-cr18ni11nbco  
 NT2 stainless steel-348  
 NT1 steel-cr18ni12  
 NT2 stainless steel-305  
 NT1 steel-cr18ni12ti  
 NT1 steel-cr18ni8  
 NT2 stainless steel-18-8  
 NT1 steel-cr18ni9  
 NT2 stainless steel-302  
 NT1 steel-cr18ni9ti  
 NT1 steel-cr19ni10  
 NT2 stainless steel-304  
 NT1 steel-cr19ni10-l  
 NT2 stainless steel-304l  
 NT1 steel-cr20ni11  
 NT2 stainless steel-308  
 NT1 steel-cr20ni11-l  
 NT2 stainless steel-308l  
 NT1 steel-cr21mn9ni6  
 NT2 stainless steel-21-6-9  
 NT1 steel-cr23ni14  
 NT2 stainless steel-309  
 NT2 stainless steel-309s  
 NT1 steel-cr23ni18  
 NT1 steel-cr25  
 NT2 stainless steel-446  
 NT1 steel-cr25ni20  
 NT2 alloy-hk-40  
 NT2 stainless steel-310  
 NT1 steel-cr2moninb  
 NT1 steel-cr2mov  
 NT1 steel-ni25cr20  
 NT2 stainless steel-20-25  
 NT1 steel-ni26cr15ti2moyalb

NT2 alloy-a-286  
 NT1 steel-nimocr  
 NT1 tophet  
 NT1 triballoy 800  
 NT1 udimet alloys  
 NT2 alloy-ni53co19cr15mo5al4ti3  
 NT3 udimet 700  
 NT2 udimet 700  
 RT austenitic steels  
 RT refractories  
 RT refractory metals  
 RT stainless steels

**HEAT-SHOCK PROTEINS**

INIS: 1994-08-04; ETDE: 1994-07-19

*A group of highly conserved proteins involved in folding and assembly of proteins into functional macromolecules that are also crucial for a cell's adaptation to elevated temperatures.*

UF chaperonins  
 \*BT1 proteins  
 RT biological adaptation

**HEAT SINKS**

(From May 1981 to February 1997 COLD RECOVERY was a valid ETDE descriptor.)

SF cold recovery  
 BT1 sinks  
 RT heat sources  
 RT heat transfer  
 RT thermal effluents  
 RT thermodynamics  
 RT vapor condensers  
 RT waste heat

**HEAT SOURCES**

INIS: 1993-02-05; ETDE: 1976-01-07

NT1 radioisotope heat sources  
 RT heat sinks  
 RT heat transfer

**heat sources (radioisotope)**

USE radioisotope heat sources

**heat stability**

INIS: 1984-04-04; ETDE: 2002-06-13

USE sensitivity  
 USE thermal degradation

**HEAT STORAGE**

1979-01-18

UF thermal storage  
 \*BT1 energy storage  
 NT1 latent heat storage  
 NT1 seasonal thermal energy storage  
 NT1 sensible heat storage  
 NT1 thermochemical heat storage  
 RT cold storage  
 RT energy storage systems  
 RT regeneration  
 RT regenerators  
 RT rock beds  
 RT thermal energy storage equipment  
 RT thermic diode solar panels

**heat storage devices**

INIS: 2000-04-12; ETDE: 1976-05-13

USE thermal energy storage equipment

**heat storage systems**

INIS: 2000-04-12; ETDE: 1976-08-26

USE thermal energy storage equipment

**HEAT STRESS**

2003-09-19

*For biological heat stress only; for mechanical heat stress use THERMAL STRESSES.*

BT1 biological stress  
 RT body temperature

RT droughts  
 RT fever  
 RT hyperthermia  
 RT transpiration

**HEAT TRANSFER**

UF exchange (heat)  
 UF heat transmission  
 UF transfer (heat)  
 UF transmission (heat)  
 SF heat dissipation  
 BT1 energy transfer  
 NT1 convection  
 NT2 forced convection  
 NT2 natural convection  
 NT2 thermosyphon effect  
 NT1 heat gain  
 NT1 heat losses  
 NT1 radiant heat transfer  
 NT1 thermal conduction  
 RT ablation  
 RT boilers  
 RT boiling  
 RT burnout  
 RT calorimetry  
 RT continuity equations  
 RT cooling  
 RT critical heat flux  
 RT district heating  
 RT fluid flow  
 RT fourier heat equation  
 RT greenhouse effect  
 RT heat  
 RT heat exchangers  
 RT heat extraction  
 RT heat flux  
 RT heat pipes  
 RT heat pumps  
 RT heat recovery  
 RT heat sinks  
 RT heat sources  
 RT heat transfer fluids  
 RT heaters  
 RT heating  
 RT hot spots  
 RT lewis number  
 RT nucleate boiling  
 RT prandtl number  
 RT reactor cooling systems  
 RT rewetting  
 RT righi-leduc effect  
 RT rosseland approximation  
 RT steam condensers  
 RT steam generators  
 RT thermal boundary resistance  
 RT thermal conductivity  
 RT thermal diffusion  
 RT thermal insulation  
 RT thermal radiation  
 RT thermodynamics  
 RT thermonuclear reactor cooling systems  
 RT thermosyphons  
 RT two-phase flow  
 RT u values  
 RT vapor condensation  
 RT working fluids

**HEAT TRANSFER FLUIDS**

INIS: 1999-12-07; ETDE: 1978-04-28

BT1 fluids  
 RT black liquids  
 RT coolant loops  
 RT heat transfer  
 RT heating loops  
 RT working fluids

**heat transfer properties**

INIS: 2000-04-12; ETDE: 1976-08-24

USE thermodynamic properties

**heat transmission**

USE heat transfer

**HEAT TREATMENTS**

*In metallurgy as well as for the biological effects of heat.*

UF preheating  
 NT1 annealing  
 NT1 autohydrolysis  
 NT1 quench hardening  
 NT1 tempering  
 NT1 thermomechanical treatments  
 RT aging  
 RT controlled atmospheres  
 RT critical temperature  
 RT curing  
 RT decarburization  
 RT food processing  
 RT grain refinement  
 RT hardening  
 RT heating  
 RT nucleic acid denaturation  
 RT protein denaturation  
 RT quenching  
 RT recrystallization  
 RT stress relaxation  
 RT thermal shock

**heated effluents**

USE thermal effluents

**heater oil**

INIS: 2000-04-12; ETDE: 1976-03-11

USE heating oils

**HEATERS**

NT1 air heaters  
 NT2 solar air heaters  
 NT1 feedwater heaters  
 NT1 radiant heaters  
 NT1 space heaters  
 NT2 convectors  
 NT1 thermoelectric heaters  
 NT1 water heaters  
 NT2 solar water heaters  
 NT3 passive solar water heaters  
 NT4 thermic diode solar panels  
 RT heat  
 RT heat production  
 RT heat transfer

**HEATING**

1999-01-22

NT1 aerodynamic heating  
 NT1 baking  
 NT1 district heating  
 NT2 geothermal district heating  
 NT2 solar district heating  
 NT1 electric heating  
 NT2 joule heating  
 NT3 current-drive heating  
 NT2 radiant cable heating  
 NT1 flash heating  
 NT1 geothermal heating  
 NT2 geothermal district heating  
 NT2 geothermal space heating  
 NT2 geothermal water heating  
 NT1 microwave heating  
 NT1 plasma heating  
 NT2 adiabatic compression heating  
 NT2 beam injection heating  
 NT2 high-frequency heating  
 NT3 ecr heating  
 NT3 icr heating  
 NT3 lower hybrid heating  
 NT3 magnetic-pumping heating  
 NT4 acoustic heating  
 NT4 collisional heating  
 NT4 transit-time magnetic pumping  
 NT2 joule heating

**NT3** current-drive heating  
**NT2** laser-radiation heating  
**NT2** shock heating  
**NT2** turbulent heating  
**NT1** radiation heating  
**NT1** solar heating  
**NT2** solar district heating  
**NT2** solar space heating  
**NT2** solar water heating  
**NT1** space heating  
**NT2** auxiliary heating  
**NT2** baseboard heating  
**NT2** geothermal space heating  
**NT2** solar space heating  
**NT1** superheating  
**NT2** nuclear superheating  
**NT1** water heating  
**NT2** geothermal water heating  
**NT2** solar water heating  
*RT* air conditioning  
*RT* air heaters  
*RT* annual cycle energy system  
*RT* blisters  
*RT* boiling  
*RT* cooling  
*RT* heat  
*RT* heat exchangers  
*RT* heat pumps  
*RT* heat transfer  
*RT* heat treatments  
*RT* heating rate  
*RT* ices program  
*RT* incubation  
*RT* melting  
*RT* retorting  
*RT* subterrene penetrators  
*RT* temperature control  
*RT* thermal degradation

### heating floors

2006-03-31  
 USE floors  
 USE heating systems

### HEATING LOAD

*INIS: 2000-04-12; ETDE: 1975-09-30*  
*RT* air conditioning  
*RT* cooling load  
*RT* enthalpy  
*RT* heat  
*RT* heat gain  
*RT* load collector ratio  
*RT* solar fraction  
*RT* solar heating

### HEATING LOOPS

2007-07-27  
 \*BT1 heating systems  
*RT* coolant loops  
*RT* heat transfer fluids

### HEATING OILS

*INIS: 1992-01-09; ETDE: 1976-03-11*  
*UF* burner fuel oil  
*UF* distillate fuel  
*UF* distillate fuel oil  
*UF* furnace oil  
*UF* heater oil  
*UF* no. 2 fuel oil  
 \*BT1 fuel oils  
*RT* liquefied petroleum gases

### HEATING RATE

*INIS: 1986-03-04; ETDE: 1976-12-15*  
*RT* heating  
*RT* time dependence

### HEATING SYSTEMS

*INIS: 1999-01-22; ETDE: 1977-05-07*  
*UF* heating floors  
*SF* heat emission systems

*SF* thermally active structural components  
**BT1** energy systems  
**NT1** geothermal heating systems  
**NT1** heating loops  
**NT1** solar heating systems  
**NT2** passive solar heating systems  
**NT3** bead walls  
**NT3** direct gain systems  
**NT3** drum walls  
**NT3** roof ponds  
**NT3** thermic diode solar panels  
**NT3** trombe walls  
**NT3** water walls  
**NT2** solar-assisted heat pumps  
*RT* chemical heat pumps  
*RT* district heating  
*RT* space heating  
*RT* space hvac systems

### heavy fuels

*INIS: 1992-05-21; ETDE: 1976-01-23*  
 USE residual fuels

### HEAVY ION ACCELERATORS

*INIS: 1976-02-11; ETDE: 1975-11-11*  
*Includes combined accelerator types for heavy ion acceleration.*

**BT1** accelerators  
**NT1** brookhaven rhic  
**NT1** calcutta cyclotron  
**NT1** cracow u-120 cyclotron  
**NT1** crml superconducting cyclotron  
**NT1** cyclone cyclotron  
**NT1** ganil cyclotron  
**NT1** hhirf accelerator  
**NT1** hilacs  
**NT2** atlas superconducting linac  
**NT2** superhilac  
**NT1** himac accelerator  
**NT1** hirfl cyclotron  
**NT1** ipcr cyclotron  
**NT1** jinr u-400 cyclotron  
**NT1** kvi cyclotron  
**NT1** milan superconducting cyclotron  
**NT1** munich suse cyclotron  
**NT1** nac cyclotron  
**NT1** numatron accelerator  
**NT1** rcnp cyclotron  
**NT1** rilac  
**NT1** sis synchrotron  
**NT1** texas superconducting cyclotron  
**NT1** tohoku cyclotron  
**NT1** tokyo ins cyclotron  
**NT1** unilac  
**NT1** vicksi accelerator  
**NT1** warsaw cyclotron  
*RT* heavy ions

### HEAVY ION DECAY RADIOISOTOPES

*INIS: 1995-06-29; ETDE: 1989-06-23*  
 \*BT1 radioisotopes  
**NT1** carbon 12 decay radioisotopes  
**NT2** barium 114  
**NT1** carbon 14 decay radioisotopes  
**NT2** radium 222  
**NT2** radium 223  
**NT2** radium 224  
**NT2** radium 226  
**NT1** magnesium 28 decay radioisotopes  
**NT2** plutonium 236  
**NT2** uranium 234  
**NT1** neon 24 decay radioisotopes  
**NT2** protactinium 231  
**NT2** thorium 230  
**NT2** uranium 232  
**NT2** uranium 233  
**NT2** uranium 234  
**NT1** silicon 32 decay radioisotopes

**NT2** plutonium 238  
*RT* heavy ion emission decay

### HEAVY ION EMISSION DECAY

*INIS: 1986-03-04; ETDE: 1988-07-08*  
 \*BT1 nuclear decay  
**NT1** carbon 12 emission decay  
**NT1** carbon 14 emission decay  
**NT1** carbon 16 emission decay  
**NT1** magnesium 28 emission decay  
**NT1** magnesium 30 emission decay  
**NT1** neon 24 emission decay  
**NT1** oxygen 16 emission decay  
**NT1** silicon 32 emission decay  
**NT1** silicon 34 emission decay  
*RT* cold fission  
*RT* heavy ion decay radioisotopes

### HEAVY ION FUSION REACTIONS

*ETDE: 1977-01-31*  
*Endoenergetic fusion reactions.*  
*UF* fusion reactions (endoenergetic)  
*UF* fusion reactions (heavy ion)  
*SF* fusion reactions  
 \*BT1 heavy ion reactions  
 \*BT1 nucleosynthesis  
*RT* compound-nucleus reactions  
*RT* deep inelastic heavy ion reactions  
*RT* incomplete fusion reactions  
*RT* quasi-fission  
*RT* thermonuclear reactions

### heavy ion linear accelerators

USE hilacs

### HEAVY ION REACTIONS

1995-05-03  
**BT1** nuclear reactions  
**NT1** aluminium 27 reactions  
**NT1** argon 36 reactions  
**NT1** argon 40 reactions  
**NT1** beryllium 11 reactions  
**NT1** beryllium 7 reactions  
**NT1** beryllium 8 reactions  
**NT1** beryllium 9 reactions  
**NT1** bismuth 209 reactions  
**NT1** boron 10 reactions  
**NT1** boron 11 reactions  
**NT1** boron 8 reactions  
**NT1** bromine 79 reactions  
**NT1** bromine 81 reactions  
**NT1** calcium 40 reactions  
**NT1** calcium 42 reactions  
**NT1** calcium 44 reactions  
**NT1** calcium 48 reactions  
**NT1** carbon 12 reactions  
**NT1** carbon 13 reactions  
**NT1** carbon 14 reactions  
**NT1** chlorine 35 reactions  
**NT1** chlorine 37 reactions  
**NT1** chromium 52 reactions  
**NT1** chromium 54 reactions  
**NT1** cobalt 59 reactions  
**NT1** copper 63 reactions  
**NT1** copper 65 reactions  
**NT1** deep inelastic heavy ion reactions  
**NT1** dysprosium 161 reactions  
**NT1** erbium 166 reactions  
**NT1** fluorine 19 reactions  
**NT1** gadolinium 155 reactions  
**NT1** germanium 70 reactions  
**NT1** germanium 74 reactions  
**NT1** germanium 76 reactions  
**NT1** gold 197 reactions  
**NT1** heavy ion fusion reactions  
**NT1** helium 6 reactions  
**NT1** helium 8 reactions  
**NT1** holmium 165 reactions  
**NT1** incomplete fusion reactions  
**NT1** iodine 127 reactions

**NT1** iron 54 reactions  
**NT1** iron 56 reactions  
**NT1** iron 58 reactions  
**NT1** krypton 80 reactions  
**NT1** krypton 82 reactions  
**NT1** krypton 83 reactions  
**NT1** krypton 84 reactions  
**NT1** krypton 86 reactions  
**NT1** lanthanum 139 reactions  
**NT1** lead 206 reactions  
**NT1** lead 208 reactions  
**NT1** lithium 11 reactions  
**NT1** lithium 6 reactions  
**NT1** lithium 7 reactions  
**NT1** lithium 8 reactions  
**NT1** lithium 9 reactions  
**NT1** magnesium 24 reactions  
**NT1** magnesium 25 reactions  
**NT1** magnesium 26 reactions  
**NT1** manganese 55 reactions  
**NT1** molybdenum 100 reactions  
**NT1** molybdenum 92 reactions  
**NT1** molybdenum 96 reactions  
**NT1** molybdenum 98 reactions  
**NT1** neodymium 142 reactions  
**NT1** neodymium 150 reactions  
**NT1** neon 20 reactions  
**NT1** neon 22 reactions  
**NT1** neon 29 reactions  
**NT1** nickel 58 reactions  
**NT1** nickel 59 reactions  
**NT1** nickel 60 reactions  
**NT1** nickel 61 reactions  
**NT1** nickel 62 reactions  
**NT1** nickel 64 reactions  
**NT1** niobium 93 reactions  
**NT1** nitrogen 13 reactions  
**NT1** nitrogen 14 reactions  
**NT1** nitrogen 15 reactions  
**NT1** oxygen 14 reactions  
**NT1** oxygen 16 reactions  
**NT1** oxygen 17 reactions  
**NT1** oxygen 18 reactions  
**NT1** palladium 110 reactions  
**NT1** palladium 118 reactions  
**NT1** phosphorus 31 reactions  
**NT1** potassium 39 reactions  
**NT1** quasi-fission  
**NT1** ruthenium 104 reactions  
**NT1** samarium 144 reactions  
**NT1** samarium 154 reactions  
**NT1** scandium 45 reactions  
**NT1** selenium 76 reactions  
**NT1** selenium 80 reactions  
**NT1** selenium 82 reactions  
**NT1** silicon 28 reactions  
**NT1** silicon 29 reactions  
**NT1** silicon 30 reactions  
**NT1** silver 109 reactions  
**NT1** sodium 23 reactions  
**NT1** sulfur 32 reactions  
**NT1** sulfur 33 reactions  
**NT1** sulfur 34 reactions  
**NT1** sulfur 36 reactions  
**NT1** sulfur 39 reactions  
**NT1** tellurium 130 reactions  
**NT1** thallium 205 reactions  
**NT1** thorium 232 reactions  
**NT1** tin 112 reactions  
**NT1** tin 116 reactions  
**NT1** tin 118 reactions  
**NT1** tin 120 reactions  
**NT1** tin 122 reactions  
**NT1** tin 124 reactions  
**NT1** titanium 46 reactions  
**NT1** titanium 48 reactions  
**NT1** titanium 49 reactions  
**NT1** titanium 50 reactions  
**NT1** tungsten 183 reactions

**NT1** tungsten 184 reactions  
**NT1** uranium 235 reactions  
**NT1** uranium 238 reactions  
**NT1** vanadium 51 reactions  
**NT1** xenon 129 reactions  
**NT1** xenon 132 reactions  
**NT1** xenon 134 reactions  
**NT1** xenon 136 reactions  
**NT1** zinc 64 reactions  
**NT1** zinc 68 reactions  
**NT1** zinc 70 reactions  
**NT1** zirconium 90 reactions  
**NT1** zirconium 92 reactions  
**NT1** zirconium 96 reactions  
*RT* anomalous  
*RT* hilacs  
*RT* nuclear fireball model

### heavy ion research facility lanzhou cyclotron

*INIS: 1993-11-08; ETDE: 2002-06-13*

USE hirfl cyclotron

### HEAVY ION SPECTROMETERS

\*BT1 spectrometers

### HEAVY IONS

*Whenever appropriate use one of the specific terms listed under ION BEAMS.*

\*BT1 ions  
*RT* ganil cyclotron  
*RT* heavy ion accelerators  
*RT* hirfl accelerator  
*RT* hilacs  
*RT* ion beams  
*RT* ion detection  
*RT* multicharged ions

### HEAVY LEPTONS

\*BT1 leptons  
**NT1** heavy neutral muons  
**NT1** tau neutrinos  
**NT1** tau particles

### HEAVY LIQUID BUBBLE CHAMBERS

\*BT1 bubble chambers

### HEAVY MEDIA SEPARATION

*INIS: 1992-07-20; ETDE: 1979-12-10*

BT1 separation processes  
**NT1** otisca process  
*RT* cleaning  
*RT* coal preparation  
*RT* washing

### HEAVY METALS

*2006-06-01*

*Metals with  $Z > 28$ , which are a major source of environmental pollution. Index the specific heavy metal(s) if appropriate.*

\*BT1 metals  
*RT* environmental impacts  
*RT* pollution  
*RT* pollution abatement  
*RT* toxic materials

### HEAVY NEUTRAL MUONS

*INIS: 1993-03-24; ETDE: 1979-08-09*

*UF* muons, heavy neutral  
 \*BT1 heavy leptons  
 \*BT1 postulated particles  
*RT* muons

### HEAVY NUCLEI

*1997-06-05*

*For nuclei from mass 181 upwards.*

BT1 nuclei  
**NT1** actinide nuclei  
**NT2** actinium 206  
**NT2** actinium 207

**NT2** actinium 208  
**NT2** actinium 209  
**NT2** actinium 210  
**NT2** actinium 211  
**NT2** actinium 212  
**NT2** actinium 213  
**NT2** actinium 214  
**NT2** actinium 215  
**NT2** actinium 216  
**NT2** actinium 217  
**NT2** actinium 218  
**NT2** actinium 219  
**NT2** actinium 220  
**NT2** actinium 221  
**NT2** actinium 222  
**NT2** actinium 223  
**NT2** actinium 224  
**NT2** actinium 225  
**NT2** actinium 226  
**NT2** actinium 227  
**NT2** actinium 228  
**NT2** actinium 229  
**NT2** actinium 230  
**NT2** actinium 231  
**NT2** actinium 232  
**NT2** actinium 233  
**NT2** actinium 234  
**NT2** actinium 235  
**NT2** actinium 236  
**NT2** americium 231  
**NT2** americium 232  
**NT2** americium 233  
**NT2** americium 234  
**NT2** americium 235  
**NT2** americium 236  
**NT2** americium 237  
**NT2** americium 238  
**NT2** americium 239  
**NT2** americium 240  
**NT2** americium 241  
**NT2** americium 242  
**NT2** americium 243  
**NT2** americium 244  
**NT2** americium 245  
**NT2** americium 246  
**NT2** americium 247  
**NT2** americium 248  
**NT2** americium 249  
**NT2** berkelium 235  
**NT2** berkelium 236  
**NT2** berkelium 237  
**NT2** berkelium 238  
**NT2** berkelium 239  
**NT2** berkelium 240  
**NT2** berkelium 241  
**NT2** berkelium 242  
**NT2** berkelium 243  
**NT2** berkelium 244  
**NT2** berkelium 245  
**NT2** berkelium 246  
**NT2** berkelium 247  
**NT2** berkelium 248  
**NT2** berkelium 249  
**NT2** berkelium 250  
**NT2** berkelium 251  
**NT2** berkelium 252  
**NT2** berkelium 253  
**NT2** berkelium 254  
**NT2** californium 236  
**NT2** californium 237  
**NT2** californium 238  
**NT2** californium 239  
**NT2** californium 240  
**NT2** californium 241  
**NT2** californium 242  
**NT2** californium 243  
**NT2** californium 244  
**NT2** californium 245  
**NT2** californium 246



NT2	californium 247	NT2	lawrencium 261	NT2	plutonium 247
NT2	californium 248	NT2	lawrencium 262	NT2	plutonium 248
NT2	californium 249	NT2	lawrencium 263	NT2	plutonium 250
NT2	californium 250	NT2	lawrencium 264	NT2	protactinium 212
NT2	californium 251	NT2	lawrencium 265	NT2	protactinium 213
NT2	californium 252	NT2	lawrencium 266	NT2	protactinium 214
NT2	californium 253	NT2	mendelevium 245	NT2	protactinium 215
NT2	californium 254	NT2	mendelevium 246	NT2	protactinium 216
NT2	californium 255	NT2	mendelevium 247	NT2	protactinium 217
NT2	californium 256	NT2	mendelevium 248	NT2	protactinium 218
NT2	curium 232	NT2	mendelevium 249	NT2	protactinium 219
NT2	curium 233	NT2	mendelevium 250	NT2	protactinium 220
NT2	curium 234	NT2	mendelevium 251	NT2	protactinium 221
NT2	curium 235	NT2	mendelevium 252	NT2	protactinium 222
NT2	curium 236	NT2	mendelevium 253	NT2	protactinium 223
NT2	curium 237	NT2	mendelevium 254	NT2	protactinium 224
NT2	curium 238	NT2	mendelevium 255	NT2	protactinium 225
NT2	curium 239	NT2	mendelevium 256	NT2	protactinium 226
NT2	curium 240	NT2	mendelevium 257	NT2	protactinium 227
NT2	curium 241	NT2	mendelevium 258	NT2	protactinium 228
NT2	curium 242	NT2	mendelevium 259	NT2	protactinium 229
NT2	curium 243	NT2	mendelevium 260	NT2	protactinium 230
NT2	curium 244	NT2	mendelevium 261	NT2	protactinium 231
NT2	curium 245	NT2	mendelevium 262	NT2	protactinium 232
NT2	curium 246	NT2	neptunium 225	NT2	protactinium 233
NT2	curium 247	NT2	neptunium 226	NT2	protactinium 234
NT2	curium 248	NT2	neptunium 227	NT2	protactinium 235
NT2	curium 249	NT2	neptunium 228	NT2	protactinium 236
NT2	curium 250	NT2	neptunium 229	NT2	protactinium 237
NT2	curium 251	NT2	neptunium 230	NT2	protactinium 238
NT2	curium 252	NT2	neptunium 231	NT2	protactinium 239
NT2	einsteinium 240	NT2	neptunium 232	NT2	protactinium 240
NT2	einsteinium 241	NT2	neptunium 233	NT2	thorium 208
NT2	einsteinium 242	NT2	neptunium 234	NT2	thorium 209
NT2	einsteinium 243	NT2	neptunium 235	NT2	thorium 210
NT2	einsteinium 244	NT2	neptunium 236	NT2	thorium 211
NT2	einsteinium 245	NT2	neptunium 237	NT2	thorium 212
NT2	einsteinium 246	NT2	neptunium 238	NT2	thorium 213
NT2	einsteinium 247	NT2	neptunium 239	NT2	thorium 214
NT2	einsteinium 248	NT2	neptunium 240	NT2	thorium 215
NT2	einsteinium 249	NT2	neptunium 241	NT2	thorium 216
NT2	einsteinium 250	NT2	neptunium 242	NT2	thorium 217
NT2	einsteinium 251	NT2	neptunium 243	NT2	thorium 218
NT2	einsteinium 252	NT2	neptunium 244	NT2	thorium 219
NT2	einsteinium 253	NT2	nobelium 248	NT2	thorium 220
NT2	einsteinium 254	NT2	nobelium 250	NT2	thorium 221
NT2	einsteinium 255	NT2	nobelium 251	NT2	thorium 222
NT2	einsteinium 256	NT2	nobelium 252	NT2	thorium 223
NT2	einsteinium 257	NT2	nobelium 253	NT2	thorium 224
NT2	einsteinium 258	NT2	nobelium 254	NT2	thorium 225
NT2	fermium 242	NT2	nobelium 255	NT2	thorium 226
NT2	fermium 243	NT2	nobelium 256	NT2	thorium 227
NT2	fermium 244	NT2	nobelium 257	NT2	thorium 228
NT2	fermium 245	NT2	nobelium 258	NT2	thorium 229
NT2	fermium 246	NT2	nobelium 259	NT2	thorium 230
NT2	fermium 247	NT2	nobelium 260	NT2	thorium 231
NT2	fermium 248	NT2	nobelium 261	NT2	thorium 232
NT2	fermium 249	NT2	nobelium 262	NT2	thorium 233
NT2	fermium 250	NT2	nobelium 263	NT2	thorium 234
NT2	fermium 251	NT2	nobelium 264	NT2	thorium 235
NT2	fermium 252	NT2	plutonium 228	NT2	thorium 236
NT2	fermium 253	NT2	plutonium 229	NT2	thorium 237
NT2	fermium 254	NT2	plutonium 230	NT2	thorium 238
NT2	fermium 255	NT2	plutonium 231	NT2	uranium 217
NT2	fermium 256	NT2	plutonium 232	NT2	uranium 218
NT2	fermium 257	NT2	plutonium 233	NT2	uranium 219
NT2	fermium 258	NT2	plutonium 234	NT2	uranium 220
NT2	fermium 259	NT2	plutonium 235	NT2	uranium 221
NT2	fermium 260	NT2	plutonium 236	NT2	uranium 222
NT2	lawrencium 251	NT2	plutonium 237	NT2	uranium 223
NT2	lawrencium 252	NT2	plutonium 238	NT2	uranium 224
NT2	lawrencium 253	NT2	plutonium 239	NT2	uranium 225
NT2	lawrencium 254	NT2	plutonium 240	NT2	uranium 226
NT2	lawrencium 255	NT2	plutonium 241	NT2	uranium 227
NT2	lawrencium 256	NT2	plutonium 242	NT2	uranium 228
NT2	lawrencium 257	NT2	plutonium 243	NT2	uranium 229
NT2	lawrencium 258	NT2	plutonium 244	NT2	uranium 230
NT2	lawrencium 259	NT2	plutonium 245	NT2	uranium 231
NT2	lawrencium 260	NT2	plutonium 246	NT2	uranium 232

NT2	uranium 233	NT1	bohrium 261	NT1	francium 231
NT2	uranium 234	NT1	bohrium 262	NT1	francium 232
NT2	uranium 235	NT1	bohrium 263	NT1	gold 181
NT2	uranium 236	NT1	bohrium 264	NT1	gold 182
NT2	uranium 237	NT1	bohrium 265	NT1	gold 183
NT2	uranium 238	NT1	bohrium 266	NT1	gold 184
NT2	uranium 239	NT1	bohrium 267	NT1	gold 185
NT2	uranium 240	NT1	bohrium 271	NT1	gold 186
NT2	uranium 241	NT1	bohrium 272	NT1	gold 187
NT2	uranium 242	NT1	bohrium 273	NT1	gold 188
NT1	astatine 191	NT1	bohrium 274	NT1	gold 189
NT1	astatine 192	NT1	bohrium 275	NT1	gold 190
NT1	astatine 193	NT1	darmstadtium 267	NT1	gold 191
NT1	astatine 194	NT1	darmstadtium 269	NT1	gold 192
NT1	astatine 195	NT1	darmstadtium 270	NT1	gold 193
NT1	astatine 196	NT1	darmstadtium 271	NT1	gold 194
NT1	astatine 197	NT1	darmstadtium 272	NT1	gold 195
NT1	astatine 198	NT1	darmstadtium 273	NT1	gold 196
NT1	astatine 199	NT1	darmstadtium 279	NT1	gold 197
NT1	astatine 200	NT1	darmstadtium 281	NT1	gold 198
NT1	astatine 201	NT1	dubnium 255	NT1	gold 199
NT1	astatine 202	NT1	dubnium 256	NT1	gold 200
NT1	astatine 203	NT1	dubnium 257	NT1	gold 201
NT1	astatine 204	NT1	dubnium 258	NT1	gold 202
NT1	astatine 205	NT1	dubnium 259	NT1	gold 203
NT1	astatine 206	NT1	dubnium 260	NT1	gold 204
NT1	astatine 207	NT1	dubnium 261	NT1	gold 205
NT1	astatine 208	NT1	dubnium 262	NT1	hafnium 181
NT1	astatine 209	NT1	dubnium 263	NT1	hafnium 182
NT1	astatine 210	NT1	dubnium 264	NT1	hafnium 183
NT1	astatine 211	NT1	dubnium 265	NT1	hafnium 184
NT1	astatine 212	NT1	dubnium 266	NT1	hafnium 185
NT1	astatine 213	NT1	dubnium 267	NT1	hafnium 186
NT1	astatine 214	NT1	dubnium 268	NT1	hafnium 187
NT1	astatine 215	NT1	dubnium 269	NT1	hafnium 188
NT1	astatine 216	NT1	element 112 277	NT1	hassium 263
NT1	astatine 217	NT1	element 112 283	NT1	hassium 264
NT1	astatine 218	NT1	element 113 278	NT1	hassium 265
NT1	astatine 219	NT1	element 113 283	NT1	hassium 266
NT1	astatine 220	NT1	element 113 284	NT1	hassium 267
NT1	astatine 221	NT1	element 114 285	NT1	hassium 269
NT1	astatine 222	NT1	element 114 286	NT1	hassium 270
NT1	astatine 223	NT1	element 114 287	NT1	hassium 271
NT1	bismuth 184	NT1	element 114 288	NT1	hassium 272
NT1	bismuth 185	NT1	element 114 289	NT1	hassium 274
NT1	bismuth 186	NT1	element 115 287	NT1	hassium 275
NT1	bismuth 187	NT1	element 115 288	NT1	hassium 276
NT1	bismuth 188	NT1	francium 199	NT1	iridium 181
NT1	bismuth 189	NT1	francium 200	NT1	iridium 182
NT1	bismuth 190	NT1	francium 201	NT1	iridium 183
NT1	bismuth 191	NT1	francium 202	NT1	iridium 184
NT1	bismuth 192	NT1	francium 203	NT1	iridium 185
NT1	bismuth 193	NT1	francium 204	NT1	iridium 186
NT1	bismuth 194	NT1	francium 205	NT1	iridium 187
NT1	bismuth 195	NT1	francium 206	NT1	iridium 188
NT1	bismuth 196	NT1	francium 207	NT1	iridium 189
NT1	bismuth 197	NT1	francium 208	NT1	iridium 190
NT1	bismuth 198	NT1	francium 209	NT1	iridium 191
NT1	bismuth 199	NT1	francium 210	NT1	iridium 192
NT1	bismuth 200	NT1	francium 211	NT1	iridium 193
NT1	bismuth 201	NT1	francium 212	NT1	iridium 194
NT1	bismuth 202	NT1	francium 213	NT1	iridium 195
NT1	bismuth 203	NT1	francium 214	NT1	iridium 196
NT1	bismuth 204	NT1	francium 215	NT1	iridium 197
NT1	bismuth 205	NT1	francium 216	NT1	iridium 198
NT1	bismuth 206	NT1	francium 217	NT1	iridium 199
NT1	bismuth 207	NT1	francium 218	NT1	lead 181
NT1	bismuth 208	NT1	francium 219	NT1	lead 182
NT1	bismuth 209	NT1	francium 220	NT1	lead 183
NT1	bismuth 210	NT1	francium 221	NT1	lead 184
NT1	bismuth 211	NT1	francium 222	NT1	lead 185
NT1	bismuth 212	NT1	francium 223	NT1	lead 186
NT1	bismuth 213	NT1	francium 224	NT1	lead 187
NT1	bismuth 214	NT1	francium 225	NT1	lead 188
NT1	bismuth 215	NT1	francium 226	NT1	lead 189
NT1	bismuth 216	NT1	francium 227	NT1	lead 190
NT1	bismuth 217	NT1	francium 228	NT1	lead 191
NT1	bismuth 218	NT1	francium 229	NT1	lead 192
NT1	bohrium 260	NT1	francium 230	NT1	lead 193

NT1 lead 194	NT1 osmium 188	NT1 radium 208
NT1 lead 195	NT1 osmium 189	NT1 radium 209
NT1 lead 196	NT1 osmium 190	NT1 radium 210
NT1 lead 197	NT1 osmium 191	NT1 radium 211
NT1 lead 198	NT1 osmium 192	NT1 radium 212
NT1 lead 199	NT1 osmium 193	NT1 radium 213
NT1 lead 200	NT1 osmium 194	NT1 radium 214
NT1 lead 201	NT1 osmium 195	NT1 radium 215
NT1 lead 202	NT1 osmium 196	NT1 radium 216
NT1 lead 203	NT1 osmium 197	NT1 radium 217
NT1 lead 204	NT1 osmium 199	NT1 radium 218
NT1 lead 205	NT1 platinum 181	NT1 radium 219
NT1 lead 206	NT1 platinum 182	NT1 radium 220
NT1 lead 207	NT1 platinum 183	NT1 radium 221
NT1 lead 208	NT1 platinum 184	NT1 radium 222
NT1 lead 209	NT1 platinum 185	NT1 radium 223
NT1 lead 210	NT1 platinum 186	NT1 radium 224
NT1 lead 211	NT1 platinum 187	NT1 radium 225
NT1 lead 212	NT1 platinum 188	NT1 radium 226
NT1 lead 213	NT1 platinum 189	NT1 radium 227
NT1 lead 214	NT1 platinum 190	NT1 radium 228
NT1 lead 215	NT1 platinum 191	NT1 radium 229
NT1 lead 216	NT1 platinum 192	NT1 radium 230
NT1 lutetium 181	NT1 platinum 193	NT1 radium 231
NT1 lutetium 182	NT1 platinum 194	NT1 radium 232
NT1 lutetium 183	NT1 platinum 195	NT1 radium 233
NT1 lutetium 184	NT1 platinum 196	NT1 radium 234
NT1 lutetium 187	NT1 platinum 197	NT1 radon 193
NT1 meitnerium 265	NT1 platinum 198	NT1 radon 194
NT1 meitnerium 266	NT1 platinum 199	NT1 radon 195
NT1 meitnerium 267	NT1 platinum 200	NT1 radon 196
NT1 meitnerium 268	NT1 platinum 201	NT1 radon 197
NT1 meitnerium 270	NT1 platinum 202	NT1 radon 198
NT1 meitnerium 271	NT1 platinum 203	NT1 radon 199
NT1 meitnerium 272	NT1 platinum 204	NT1 radon 200
NT1 meitnerium 273	NT1 platinum 205	NT1 radon 201
NT1 meitnerium 274	NT1 platinum 206	NT1 radon 202
NT1 meitnerium 275	NT1 platinum 207	NT1 radon 203
NT1 meitnerium 276	NT1 platinum 208	NT1 radon 204
NT1 meitnerium 279	NT1 polonium 186	NT1 radon 205
NT1 mercury 181	NT1 polonium 187	NT1 radon 206
NT1 mercury 182	NT1 polonium 188	NT1 radon 207
NT1 mercury 183	NT1 polonium 189	NT1 radon 208
NT1 mercury 184	NT1 polonium 190	NT1 radon 209
NT1 mercury 185	NT1 polonium 191	NT1 radon 210
NT1 mercury 186	NT1 polonium 192	NT1 radon 211
NT1 mercury 187	NT1 polonium 193	NT1 radon 212
NT1 mercury 188	NT1 polonium 194	NT1 radon 213
NT1 mercury 189	NT1 polonium 195	NT1 radon 214
NT1 mercury 190	NT1 polonium 196	NT1 radon 215
NT1 mercury 191	NT1 polonium 197	NT1 radon 216
NT1 mercury 192	NT1 polonium 198	NT1 radon 217
NT1 mercury 193	NT1 polonium 199	NT1 radon 218
NT1 mercury 194	NT1 polonium 200	NT1 radon 219
NT1 mercury 195	NT1 polonium 201	NT1 radon 220
NT1 mercury 196	NT1 polonium 202	NT1 radon 221
NT1 mercury 197	NT1 polonium 203	NT1 radon 222
NT1 mercury 198	NT1 polonium 204	NT1 radon 223
NT1 mercury 199	NT1 polonium 205	NT1 radon 224
NT1 mercury 200	NT1 polonium 206	NT1 radon 225
NT1 mercury 201	NT1 polonium 207	NT1 radon 226
NT1 mercury 202	NT1 polonium 208	NT1 radon 227
NT1 mercury 203	NT1 polonium 209	NT1 radon 228
NT1 mercury 204	NT1 polonium 210	NT1 rhenium 181
NT1 mercury 205	NT1 polonium 211	NT1 rhenium 182
NT1 mercury 206	NT1 polonium 212	NT1 rhenium 183
NT1 mercury 207	NT1 polonium 213	NT1 rhenium 184
NT1 mercury 208	NT1 polonium 214	NT1 rhenium 185
NT1 mercury 209	NT1 polonium 215	NT1 rhenium 186
NT1 mercury 210	NT1 polonium 216	NT1 rhenium 187
NT1 mercury 211	NT1 polonium 217	NT1 rhenium 188
NT1 mercury 212	NT1 polonium 218	NT1 rhenium 189
NT1 osmium 181	NT1 radium 201	NT1 rhenium 190
NT1 osmium 182	NT1 radium 202	NT1 rhenium 191
NT1 osmium 183	NT1 radium 203	NT1 rhenium 192
NT1 osmium 184	NT1 radium 204	NT1 rhenium 193
NT1 osmium 185	NT1 radium 205	NT1 rhenium 194
NT1 osmium 186	NT1 radium 206	NT1 roentgenium 272
NT1 osmium 187	NT1 radium 207	NT1 roentgenium 273

NT1 roentgenium 274  
 NT1 roentgenium 279  
 NT1 roentgenium 280  
 NT1 rutherfordium 253  
 NT1 rutherfordium 254  
 NT1 rutherfordium 255  
 NT1 rutherfordium 256  
 NT1 rutherfordium 257  
 NT1 rutherfordium 258  
 NT1 rutherfordium 259  
 NT1 rutherfordium 260  
 NT1 rutherfordium 261  
 NT1 rutherfordium 262  
 NT1 rutherfordium 263  
 NT1 rutherfordium 264  
 NT1 rutherfordium 265  
 NT1 rutherfordium 266  
 NT1 rutherfordium 267  
 NT1 rutherfordium 268  
 NT1 seaborgium 258  
 NT1 seaborgium 259  
 NT1 seaborgium 260  
 NT1 seaborgium 261  
 NT1 seaborgium 262  
 NT1 seaborgium 263  
 NT1 seaborgium 264  
 NT1 seaborgium 265  
 NT1 seaborgium 266  
 NT1 seaborgium 268  
 NT1 seaborgium 270  
 NT1 seaborgium 271  
 NT1 seaborgium 272  
 NT1 seaborgium 273  
 NT1 tantalum 181  
 NT1 tantalum 182  
 NT1 tantalum 183  
 NT1 tantalum 184  
 NT1 tantalum 185  
 NT1 tantalum 186  
 NT1 tantalum 187  
 NT1 tantalum 188  
 NT1 tantalum 189  
 NT1 tantalum 190  
 NT1 thallium 181  
 NT1 thallium 182  
 NT1 thallium 183  
 NT1 thallium 184  
 NT1 thallium 185  
 NT1 thallium 186  
 NT1 thallium 187  
 NT1 thallium 188  
 NT1 thallium 189  
 NT1 thallium 190  
 NT1 thallium 191  
 NT1 thallium 192  
 NT1 thallium 193  
 NT1 thallium 194  
 NT1 thallium 195  
 NT1 thallium 196  
 NT1 thallium 197  
 NT1 thallium 198  
 NT1 thallium 199  
 NT1 thallium 200  
 NT1 thallium 201  
 NT1 thallium 202  
 NT1 thallium 203  
 NT1 thallium 204  
 NT1 thallium 205  
 NT1 thallium 206  
 NT1 thallium 207  
 NT1 thallium 208  
 NT1 thallium 209  
 NT1 thallium 210  
 NT1 thallium 211  
 NT1 thallium 212  
 NT1 tungsten 181  
 NT1 tungsten 182  
 NT1 tungsten 183  
 NT1 tungsten 184

NT1 tungsten 185  
 NT1 tungsten 186  
 NT1 tungsten 187  
 NT1 tungsten 188  
 NT1 tungsten 189  
 NT1 tungsten 190  
 NT1 tungsten 191  
 NT1 tungsten 192  
 RT nuclear structure

### heavy oils

INIS: 2000-04-12; ETDE: 1981-01-27

USE petroleum  
 USE viscosity

### HEAVY WATER

1996-06-19

Restricted to the compounds D2O and HDO;  
 for DTO, HTO, and T2O, see the use  
 references at those entries.

UF deuterium oxide

UF hdo

UF heavy water coolant

UF heavy water moderator

\*BT1 deuterium compounds

\*BT1 water

RT coolants

RT dual temperature process

RT heavy water plants

RT moderators

RT tritium extraction plants

### heavy water components test reactor

USE hwctr reactor

### heavy water coolant

USE heavy water

### HEAVY WATER COOLED REACTORS

BT1 reactors

NT1 alrr reactor

NT1 aquilon reactor

NT1 bhwr type reactors

NT2 hbwr reactor

NT2 marviken reactor

NT1 br-3-vn reactor

NT1 celestin reactor

NT1 cp-3 reactor

NT1 cp-3m reactor

NT1 cp-5 reactor

NT1 dca reactor

NT1 dhruva reactor

NT1 dido reactor

NT1 diorit reactor

NT1 dmtr reactor

NT1 dr-3 reactor

NT1 el-1 reactor

NT1 el-3 reactor

NT1 eole reactor

NT1 es-salam reactor

NT1 essor reactor

NT1 fr-2 reactor

NT1 frj-2 reactor

NT1 grenoble reactor

NT1 gtrr reactor

NT1 hfbr reactor

NT1 hifar reactor

NT1 hwctr reactor

NT1 hwrr reactor

NT1 irr-2 reactor

NT1 ispra-1 reactor

NT1 jeep-2 reactor

NT1 jrr-2 reactor

NT1 jrr-3 reactor

NT1 mitr reactor

NT1 nbsr reactor

NT1 nora reactor

NT1 nru reactor

NT1 nrx reactor

NT1 pdp reactor

NT1 pelinduna reactor

NT1 phwr type reactors

NT2 agesta reactor

NT2 atucha-2 reactor

NT2 atucha reactor

NT2 bruce-1 reactor

NT2 bruce-2 reactor

NT2 bruce-3 reactor

NT2 bruce-4 reactor

NT2 bruce-5 reactor

NT2 bruce-6 reactor

NT2 bruce-7 reactor

NT2 bruce-8 reactor

NT2 cernavoda-1 reactor

NT2 cordoba reactor

NT2 cvtr reactor

NT2 darlington-1 reactor

NT2 darlington-2 reactor

NT2 darlington-3 reactor

NT2 darlington-4 reactor

NT2 douglas point ontario reactor

NT2 gentilly-2 reactor

NT2 kaiga-1 reactor

NT2 kaiga-2 reactor

NT2 kaiga-3 reactor

NT2 kaiga-4 reactor

NT2 kakrapar-1 reactor

NT2 kakrapar-2 reactor

NT2 kalpakkam-1 reactor

NT2 kalpakkam-2 reactor

NT2 kanupp reactor

NT2 mzfr reactor

NT2 narora-1 reactor

NT2 narora-2 reactor

NT2 npd reactor

NT2 pickering-1 reactor

NT2 pickering-2 reactor

NT2 pickering-3 reactor

NT2 pickering-4 reactor

NT2 pickering-5 reactor

NT2 pickering-6 reactor

NT2 pickering-7 reactor

NT2 pickering-8 reactor

NT2 point lepreau-1 reactor

NT2 point lepreau-2 reactor

NT2 rajasthan-1 reactor

NT2 rajasthan-2 reactor

NT2 rajasthan-3 reactor

NT2 rajasthan-4 reactor

NT2 rajasthan-5 reactor

NT2 rajasthan-6 reactor

NT2 tarapur-3 reactor

NT2 tarapur-4 reactor

NT2 wolsung-1 reactor

NT2 wolsung-2 reactor

NT2 wolsung-3 reactor

NT2 wolsung-4 reactor

NT1 pik reactor

NT1 pluto reactor

NT1 prr reactor

NT1 prtr reactor

NT1 pse reactor

NT1 r-1 reactor

NT1 r-a reactor

NT1 spert-2 reactor

NT1 taiwan research reactor

NT1 venus reactor

NT1 zed-2 reactor

### heavy water gas cooled reactor of slovakia

INIS: 1993-11-08; ETDE: 2002-06-13

USE bohunice a-1 reactor

### heavy water moderated and gas cooled reactors

1993-11-08

USE hwgcr type reactors

**heavy water moderated and water cooled reactors**

INIS: 1993-11-08; ETDE: 2002-06-13

USE hwlwr type reactors

**HEAVY WATER MODERATED REACTORS**

BT1 reactors  
 NT1 alrr reactor  
 NT1 aquilon reactor  
 NT1 bhwr type reactors  
 NT2 hbwr reactor  
 NT2 marviken reactor  
 NT1 br-3-vn reactor  
 NT1 c reactor  
 NT1 candu type reactors  
 NT2 bruce-1 reactor  
 NT2 bruce-2 reactor  
 NT2 bruce-3 reactor  
 NT2 bruce-4 reactor  
 NT2 bruce-5 reactor  
 NT2 bruce-6 reactor  
 NT2 bruce-7 reactor  
 NT2 bruce-8 reactor  
 NT2 cernavoda-1 reactor  
 NT2 cordoba reactor  
 NT2 darlington-1 reactor  
 NT2 darlington-2 reactor  
 NT2 darlington-3 reactor  
 NT2 darlington-4 reactor  
 NT2 douglas point ontario reactor  
 NT2 embalse reactor  
 NT2 gentilly-2 reactor  
 NT2 gentilly reactor  
 NT2 kaiga-1 reactor  
 NT2 kaiga-2 reactor  
 NT2 kakrapar-1 reactor  
 NT2 kakrapar-2 reactor  
 NT2 kanupp reactor  
 NT2 npd reactor  
 NT2 pickering-1 reactor  
 NT2 pickering-2 reactor  
 NT2 pickering-3 reactor  
 NT2 pickering-4 reactor  
 NT2 pickering-5 reactor  
 NT2 pickering-6 reactor  
 NT2 pickering-7 reactor  
 NT2 pickering-8 reactor  
 NT2 point lepreau-1 reactor  
 NT2 point lepreau-2 reactor  
 NT2 qinshan-3-1 reactor  
 NT2 qinshan-3-2 reactor  
 NT2 rajasthan-1 reactor  
 NT2 rajasthan-2 reactor  
 NT2 rajasthan-3 reactor  
 NT2 rajasthan-4 reactor  
 NT2 wolsung-1 reactor  
 NT2 wolsung-2 reactor  
 NT2 wolsung-3 reactor  
 NT2 wolsung-4 reactor  
 NT1 celestin reactor  
 NT1 cirus reactor  
 NT1 cp-3 reactor  
 NT1 cp-3m reactor  
 NT1 cp-5 reactor  
 NT1 dca reactor  
 NT1 dhruva reactor  
 NT1 dido reactor  
 NT1 dimple reactor  
 NT1 diorit reactor  
 NT1 dmtr reactor  
 NT1 dr-3 reactor  
 NT1 eco reactor  
 NT1 el-1 reactor  
 NT1 el-2 reactor  
 NT1 el-3 reactor  
 NT1 eole reactor  
 NT1 es-salam reactor  
 NT1 essor reactor  
 NT1 fr-2 reactor  
 NT1 frj-2 reactor  
 NT1 frm-ii reactor  
 NT1 grenoble reactor  
 NT1 gtrr reactor  
 NT1 hfbr reactor  
 NT1 hifar reactor  
 NT1 hre-2 reactor  
 NT1 hwctr reactor  
 NT1 hwgcr type reactors  
 NT2 bohunice a-1 reactor  
 NT2 bohunice a-2 reactor  
 NT2 el-4 reactor  
 NT2 lucens reactor  
 NT2 niederaichbach reactor  
 NT1 hwlwr type reactors  
 NT2 cirene reactor  
 NT2 gentilly reactor  
 NT2 jatr reactor  
 NT1 hwrr reactor  
 NT1 hwzpr reactor  
 NT1 irr-2 reactor  
 NT1 ispra-1 reactor  
 NT1 jeep-2 reactor  
 NT1 jrr-2 reactor  
 NT1 jrr-3 reactor  
 NT1 junco reactor  
 NT1 k reactor  
 NT1 l reactor  
 NT1 maple reactor  
 NT1 maple type reactors  
 NT1 mitr reactor  
 NT1 nbsr reactor  
 NT1 nora reactor  
 NT1 nru reactor  
 NT1 nrx reactor  
 NT1 p reactor  
 NT1 pdp reactor  
 NT1 pelinduna reactor  
 NT1 phwr type reactors  
 NT2 agesta reactor  
 NT2 atucha-2 reactor  
 NT2 atucha reactor  
 NT2 bruce-1 reactor  
 NT2 bruce-2 reactor  
 NT2 bruce-3 reactor  
 NT2 bruce-4 reactor  
 NT2 bruce-5 reactor  
 NT2 bruce-6 reactor  
 NT2 bruce-7 reactor  
 NT2 bruce-8 reactor  
 NT2 cernavoda-1 reactor  
 NT2 cordoba reactor  
 NT2 cvtr reactor  
 NT2 darlington-1 reactor  
 NT2 darlington-2 reactor  
 NT2 darlington-3 reactor  
 NT2 darlington-4 reactor  
 NT2 douglas point ontario reactor  
 NT2 gentilly-2 reactor  
 NT2 kaiga-1 reactor  
 NT2 kaiga-2 reactor  
 NT2 kaiga-3 reactor  
 NT2 kaiga-4 reactor  
 NT2 kakrapar-1 reactor  
 NT2 kakrapar-2 reactor  
 NT2 kalpakkam-1 reactor  
 NT2 kalpakkam-2 reactor  
 NT2 kanupp reactor  
 NT2 mzfr reactor  
 NT2 narora-1 reactor  
 NT2 narora-2 reactor  
 NT2 npd reactor  
 NT2 pickering-1 reactor  
 NT2 pickering-2 reactor  
 NT2 pickering-3 reactor  
 NT2 pickering-4 reactor  
 NT2 pickering-5 reactor  
 NT2 pickering-6 reactor

NT2 pickering-7 reactor  
 NT2 pickering-8 reactor  
 NT2 point lepreau-1 reactor  
 NT2 point lepreau-2 reactor  
 NT2 rajasthan-1 reactor  
 NT2 rajasthan-2 reactor  
 NT2 rajasthan-3 reactor  
 NT2 rajasthan-4 reactor  
 NT2 rajasthan-5 reactor  
 NT2 rajasthan-6 reactor  
 NT2 tarapur-3 reactor  
 NT2 tarapur-4 reactor  
 NT2 wolsung-1 reactor  
 NT2 wolsung-2 reactor  
 NT2 wolsung-3 reactor  
 NT2 wolsung-4 reactor  
 NT1 pik reactor  
 NT1 pluto reactor  
 NT1 prr reactor  
 NT1 prtr reactor  
 NT1 pse reactor  
 NT1 r-1 reactor  
 NT1 r-a reactor  
 NT1 r-b reactor  
 NT1 r reactor  
 NT1 rb-3 reactor  
 NT1 rtr reactor  
 NT1 sghwr reactor  
 NT1 spert-2 reactor  
 NT1 taiwan research reactor  
 NT1 tr-0 reactor  
 NT1 venus reactor  
 NT1 wr-1 reactor  
 NT1 zed-2 reactor  
 NT1 zeep reactor  
 NT1 zerlina reactor

**heavy water moderator**

USE heavy water

**HEAVY WATER PLANTS**

INIS: 1978-11-24; ETDE: 1978-02-14

*Plants for the production and/or upgrading of heavy water.*

\*BT1 isotope separation plants

RT heavy water

RT isotope separation

**heavy water research reactor**

INIS: 2003-02-03; ETDE: 2003-01-24

CIAE, Beijing, China.

USE hwrr reactor

**heavy water zero power reactor**

2003-08-15

*Esfahan Nuclear Technology Centre, Iran.*

USE hwzpr reactor

**HEBER GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1975-10-01

BT1 geothermal fields

RT california

**HECTOR REACTOR**

UKAEA, Winfrith, United Kingdom.

*UF hot enriched carbon moderated thermal oscillator reactor*

\*BT1 carbon dioxide cooled reactors

\*BT1 enriched uranium reactors

\*BT1 graphite moderated reactors

\*BT1 materials testing reactors

\*BT1 pulsed reactors

\*BT1 research reactors

\*BT1 thermal reactors

**hectorite**

USE montmorillonite

**HEDDUR**

2000-04-12

\*BT1 aluminium base alloys

\*BT1 copper alloys  
**HEDENBERGITE**  
*INIS: 2000-04-12; ETDE: 1976-01-07*  
*A black mineral of the clinopyroxene group.*  
 \*BT1 silicate minerals

**hedl**

*INIS: 1985-12-10; ETDE: 2002-06-13*  
 USE hanford engineering development laboratory

**HEDTA**

*Hydroxyethylethylenediaminetriacetic acid.*  
 UF hydroxyethylethylenediaminetriacetic acid  
 \*BT1 amino acids  
 BT1 chelating agents  
 \*BT1 hydroxy acids

**HEF**

*INIS: 1990-12-06; ETDE: 1980-10-27*  
*To demonstrate breeder reactor fuel reprocessing.*  
 (prior to December 1990, this concept was indexed by HOT EXPERIMENTAL FACILITY.)

UF hot experimental facility  
 \*BT1 fuel reprocessing plants  
 RT consolidated fuel reprocessing program  
 RT pilot plants

**HEIDA**

UF hydroxyethyliminodiacetic acid  
 \*BT1 amino acids  
 BT1 chelating agents  
 \*BT1 hydroxy acids

**heidelberg storage ring**

*INIS: 1993-09-16; ETDE: 1993-11-08*  
 USE tsr storage ring

**heidelberg triga-mk-1-dkfs reactor**

*INIS: 1993-11-08; ETDE: 2002-06-13*  
 USE triga-1-heidelberg reactor

**HEIGHT**

2000-05-23  
 For elevation use LEVELS.  
 BT1 dimensions  
 NT1 scale height  
 NT1 virtual height  
 RT altitude  
 RT levels

**HEINRICHITE**

2000-04-12  
 \*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT arsenic oxides  
 RT barium oxides  
 RT uranium oxides

**HEISENBERG MODEL**

\*BT1 crystal models  
 RT electronic structure  
 RT ferromagnetism  
 RT phi4-field theory  
 RT spin

**HEISENBERG PICTURE**

UF heisenberg representation  
 RT quantum field theory  
 RT quantum mechanics  
 RT schrodinger picture

**heisenberg principle**

USE uncertainty principle

**heisenberg representation**

USE heisenberg picture

**heissdampfreaktoranlage**

USE hdr reactor

**HEITLER-LONDON THEORY**

1996-07-18  
 (Prior to March 1997 HEITLER-LONDON WAVES was a valid ETDE descriptor.)  
 UF heitler-london waves  
 RT binding energy

**heitler-london waves**

2000-03-28  
 (Until July 1996 this was a valid descriptor.)  
 USE heitler-london theory

**HELA CELLS**

\*BT1 tumor cells  
 RT clone cells  
 RT in vitro

**helac**

2000-04-12  
 (Prior to June 1991 this was a valid ETDE descriptor.)  
 USE linear accelerators

**HELIAC STELLARATORS**

*INIS: 1995-09-14; ETDE: 1987-06-09*  
*Helical magnetic axis stellarators.*  
 \*BT1 stellarators  
 NT1 h-1 heliac  
 NT1 hsx stellarator  
 NT1 sheila heliac  
 NT1 tj-ii heliac

**helianthus annuus**

USE sunflowers

**HELICAL CONFIGURATION**

BT1 configuration  
 RT dna  
 RT magnetic field configurations  
 RT molecular structure

**HELICAL INSTABILITY**

UF screw instability  
 \*BT1 plasma macroinstabilities

**HELICAL ROTARY SCREW EXPANDER**

*INIS: 2000-04-12; ETDE: 1977-06-02*  
 UF lysholm engine  
 RT rotary engines  
 RT turbines

**HELICAL WAVEGUIDES**

BT1 waveguides

**HELICITY**

BT1 particle properties  
 RT angular momentum  
 RT chirality  
 RT spin

**HELICON RESONANCE**

BT1 resonance  
 RT superconductivity

**HELICON WAVES**

\*BT1 electromagnetic radiation

**HELICOPTERS**

*INIS: 1992-02-21; ETDE: 1982-04-09*  
 BT1 aircraft

**HELIOS DEVICES**

\*BT1 q devices

**HELIOS FACILITY**

*INIS: 1995-03-28; ETDE: 1979-07-24*  
*Large CO2 laser facility at Los Alamos for laser fusion experiments.*  
 RT antares facility

RT carbon dioxide lasers  
 RT lanl  
 RT laser fusion reactors

**HELIOSPHERE**

*INIS: 1987-02-25; ETDE: 1987-05-01*  
*Influence zone of the sun in interstellar space, delimited by the ejected solar plasma.*  
 \*BT1 solar atmosphere

**HELIOSTATS**

*INIS: 1992-03-27; ETDE: 1976-01-07*  
 \*BT1 solar equipment  
 NT1 solar tracking systems  
 RT central receiver test facility  
 RT control systems  
 RT solar tracking

**heliolithis**

USE bollworm

**HELIOTRON**

1998-09-29  
 \*BT1 closed plasma devices  
 RT lhd device  
 RT torsatron stellarators

**HELIOTRON-E STELLARATOR**

*INIS: 1999-07-26; ETDE: 1999-09-03*  
*Plasma Physics Laboratory, Kyoto University, Japan.*  
 \*BT1 stellarators

**HELIUM**

\*BT1 rare gases  
 RT cryogenic fluids  
 RT helium embrittlement

**HELIUM 10**

\*BT1 even-even nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei

**HELIUM 2**

*INIS: 1980-02-26; ETDE: 1980-03-29*  
 \*BT1 helium isotopes  
 \*BT1 light nuclei

**HELIUM 3**

\*BT1 even-odd nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
 NT1 helium 3 a  
 NT1 helium 3 a1  
 NT1 helium 3 b  
 RT helium 3 beams  
 RT quantum fluids

**HELIUM 3 A**

*INIS: 1975-10-23; ETDE: 1975-08-19*  
*A phase of superfluid helium 3.*  
 \*BT1 helium 3  
 RT superfluidity

**HELIUM 3 A1**

*INIS: 1981-08-31; ETDE: 1977-06-02*  
*A phase of superfluid helium 3.*  
 \*BT1 helium 3  
 RT superfluidity

**HELIUM 3 B**

*INIS: 1975-10-23; ETDE: 1975-08-19*  
*A phase of superfluid helium 3.*  
 \*BT1 helium 3  
 RT superfluidity

**HELIUM 3 BEAMS**

\*BT1 ion beams  
 RT helium 3

**HELIUM 3 REACTIONS**

\*BT1 charged-particle reactions

**HELIUM 3 TARGET***ETDE: 1976-07-09*

BT1 targets

**HELIUM 4**

\*BT1 even-even nuclei

\*BT1 helium isotopes

\*BT1 light nuclei

\*BT1 stable isotopes

NT1 helium i

NT1 helium ii

RT helium 4 beams

RT lambda point

RT quantum fluids

**HELIUM 4 BEAMS**

\*BT1 ion beams

NT1 alpha beams

RT helium 4

**helium 4 reactions**

USE alpha reactions

**HELIUM 4 TARGET***ETDE: 1976-07-09*

BT1 targets

**HELIUM 5**

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 helium isotopes

\*BT1 light nuclei

**HELIUM 6**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 helium isotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**HELIUM 6 REACTIONS***INIS: 1985-07-22; ETDE: 1985-08-08*

\*BT1 heavy ion reactions

**HELIUM 6 TARGET***INIS: 1986-01-21; ETDE: 1977-05-07*

BT1 targets

**HELIUM 7**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 helium isotopes

\*BT1 light nuclei

**HELIUM 8**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 helium isotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**HELIUM 8 BEAMS***INIS: 1985-05-15; ETDE: 1985-07-18*

\*BT1 radioactive ion beams

\*BT1 secondary beams

**HELIUM 8 REACTIONS***INIS: 1985-07-22; ETDE: 1985-08-08*

\*BT1 heavy ion reactions

**HELIUM 9**

\*BT1 even-odd nuclei

\*BT1 helium isotopes

\*BT1 light nuclei

**HELIUM ASH***INIS: 1990-02-28; ETDE: 1990-03-15**A thermonuclear reaction product.*

\*BT1 helium ions

RT alpha particles

RT pumped limiters

RT thermonuclear reactions

**HELIUM BURNING***INIS: 1978-09-28; ETDE: 1978-10-20**Astrophysical processes only.*

BT1 star burning

RT dwarf stars

RT nucleosynthesis

RT red giant stars

RT star evolution

**HELIUM CHLORIDES**

\*BT1 chlorides

\*BT1 helium compounds

**HELIUM COMPLEXES**

BT1 complexes

**HELIUM COMPOUNDS***1996-06-28*

BT1 rare gas compounds

NT1 helium chlorides

NT1 helium hydrides

NT1 helium hydroxides

NT1 helium oxides

NT1 helium tritides

**HELIUM COOLED REACTORS***1998-01-29*

\*BT1 gas cooled reactors

NT1 avr reactor

NT1 dragon reactor

NT1 ebor reactor

NT1 egcr reactor

NT1 fulton-1 reactor

NT1 fulton-2 reactor

NT1 gcfr reactor

NT1 gcre reactor

NT1 htr-10 reactor

NT1 htr reactor

NT1 iea-zpr reactor

NT1 peach bottom-1 reactor

NT1 schmehausen-2 reactor

NT1 summit-1 reactor

NT1 summit-2 reactor

NT1 thtr-300 reactor

NT1 uhtrex reactor

NT1 vg-400 reactor

NT1 vgr-50 reactor

NT1 vhtr reactor

NT1 vidal-1 reactor

NT1 vidal-2 reactor

NT1 vrain reactor

RT htgr type reactors

**HELIUM DILUTION****REFRIGERATION**

\*BT1 refrigeration

RT cryogenics

RT helium dilution refrigerators

RT refrigerators

**HELIUM DILUTION****REFRIGERATORS***1982-06-09*

BT1 refrigerators

RT cryostats

RT helium dilution refrigeration

**HELIUM EMBRITTLEMENT***INIS: 1992-06-17; ETDE: 1985-03-26**A decrease in the fracture strength of metals due to the incorporation of helium in the metal lattice.*

BT1 embrittlement

RT brittleness

RT fracture properties

RT helium

RT interstitial helium generation

**helium generation***INIS: 1990-12-15; ETDE: 1983-04-28**(Prior to December 1990, this was a valid descriptor.)*

USE interstitial helium generation

**HELIUM HYDRIDES**

\*BT1 helium compounds

\*BT1 hydrides

**HELIUM HYDROXIDES***1996-06-28**(From June 1996 to November 2007 HELIUM COMPOUNDS + HYDROXIDES was used for this concept.)*

\*BT1 helium compounds

\*BT1 hydroxides

**HELIUM I***The phase of liquid helium-4 which is stable at temperatures above the lambda point (about 2.2 K).*

\*BT1 helium 4

**HELIUM II***The phase of liquid helium-4 which is stable at temperatures between absolute zero and the lambda point (about 2.2 K).*

\*BT1 helium 4

\*BT1 quantum fluids

RT film flow

RT landau liquid helium theory

RT superfluidity

**HELIUM IONS**

\*BT1 ions

NT1 helium ash

RT alpha particles

**HELIUM ISOTOPES***1999-07-16*

BT1 isotopes

NT1 helium 10

NT1 helium 2

NT1 helium 3

NT2 helium 3 a

NT2 helium 3 al

NT2 helium 3 b

NT1 helium 4

NT2 helium i

NT2 helium ii

NT1 helium 5

NT1 helium 6

NT1 helium 7

NT1 helium 8

NT1 helium 9

**helium jet method***INIS: 1984-04-04; ETDE: 2002-06-13*

USE reaction product transport systems

**helium method**

USE isotope dating

**HELIUM-NEON LASERS***INIS: 1976-05-05; ETDE: 1976-06-07*

\*BT1 gas lasers

**HELIUM OXIDES***2000-04-12**(From July 1996 to November 2007 HELIUM COMPOUNDS + OXIDES was used for this concept.)*

\*BT1 helium compounds

\*BT1 oxides

**helium production rates***INIS: 2000-04-12; ETDE: 1979-09-26*

USE interstitial helium generation

**HELIUM TRITIDES**

1977-09-06

- \*BT1 helium compounds
- \*BT1 tritides

**HELIUM-XENON LASERS**

INIS: 1992-08-11; ETDE: 1980-05-06

- \*BT1 gas lasers

**helmholtz, free energy**

USE free energy

**HELMHOLTZ INSTABILITY**

UF kelvin-helmholtz instability

- \*BT1 plasma macroinstabilities
- RT fluid flow

**HELMHOLTZ THEOREM**

RT vectors

**helminths**

(Prior to September 2005 this was a valid descriptor.)

- SEE parasites
- SEE platyhelminths

**HELVITE**

2000-04-12

- \*BT1 silicate minerals
- RT beryllium silicates
- RT iron silicates
- RT manganese silicates

**hemagglutination**

USE hemagglutinins

**HEMAGGLUTININS**

UF hemagglutination

- \*BT1 agglutinins
- NT1 concanavalin a
- NT1 phytohemagglutinin
- RT blood groups
- RT erythrocytes

**hemangiomas**

USE angiomas

**hematin**

USE heme

**HEMATINICS**

INIS: 1993-08-26; ETDE: 1981-04-20

- \*BT1 hematologic agents
- NT1 folic acid
- NT1 intrinsic factor
- NT1 vitamin b-12
- RT anticoagulants
- RT blood substitutes
- RT coagulants
- RT fibrinolytic agents

**HEMATITE**

A common iron mineral.

- \*BT1 iron ores
- \*BT1 oxide minerals
- RT iron oxides
- RT limonite

**HEMATOLOGIC AGENTS**

INIS: 1984-05-24; ETDE: 1981-04-20

- BT1 drugs
- NT1 anticoagulants
  - NT2 coumarin
  - NT2 heparin
  - NT2 psoralen
- NT1 blood substitutes
  - NT2 dextran
  - NT2 pectins
  - NT2 pvp
- NT1 coagulants
  - NT2 protamines
- NT1 fibrinolytic agents

NT2 fibrinolysin

NT2 plasminogen

NT2 urokinase

NT1 hematinics

NT2 folic acid

NT2 intrinsic factor

NT2 vitamin b-12

RT blood

RT blood coagulation

RT hemic diseases

**HEMATOLOGY**

BT1 medicine

RT hemic diseases

**HEMATOMAS**

INIS: 1995-09-18; ETDE: 1977-06-21

RT blood coagulation

RT hemorrhage

RT injuries

**hematopoiesis**

USE blood formation

**HEMATOPOIETIC SYSTEM**

BT1 body

NT1 bone marrow

RT blood formation

RT erythropoiesis

**hematoporphyrin (heme)**

USE heme

**HEMATOPORPHYRINS**

BT1 pigments

\*BT1 porphyrins

RT hemoglobin

**HEMATOXYLIN**

1996-06-28

BT1 dyes

\*BT1 polyphenols

\*BT1 pyrans

**HEME**

UF hematin

UF hematoporphyrin (heme)

UF hemin

BT1 pigments

\*BT1 porphyrins

RT carboxyhemoglobin

RT hemoglobin

RT iron

RT methemoglobin

**HEMIACETAL DEHYDROGENASES**

INIS: 2000-04-03; ETDE: 1981-01-12

Code number 1.1.

\*BT1 oxidoreductases

NT1 alcohol dehydrogenase

NT1 lactate dehydrogenase

**HEMIC DISEASES**

UF blood diseases

BT1 diseases

NT1 anemias
 

- NT2 ischemia
- NT2 megaloblastic anemia
- NT2 sickle cell anemia
- NT2 thalassemia

- NT1 hemophilia
- NT1 leukopenia
- NT2 lymphopenia
- NT1 polycythemia
- NT1 purpura
- RT blood
- RT blood chemistry
- RT hematologic agents
- RT hematology
- RT hemolysis
- RT hemorrhage
- RT malaria

RT splenomegaly

**HEMICELLULOSE**

INIS: 2000-04-12; ETDE: 1978-06-14

Group of complex carbohydrates, hexose and pentose sugars and sugar acids of uronic type, surrounding cellulose fibers of plant cells. No chemical relation to cellulose.

\*BT1 polysaccharides

NT1 xylans

RT biomass

RT cellulose

RT lignin

RT wood

**hemin**

USE heme

**HEMIPTERA**

\*BT1 insects

NT1 aphids

**HEMLOCKS**

INIS: 2000-04-12; ETDE: 1988-02-02

Tsuga.

\*BT1 conifers

**HEMOCYANIN**

\*BT1 metalloproteins

RT blood

**HEMOGLOBIN**

\*BT1 globins

BT1 pigments

\*BT1 porphyrins

NT1 methemoglobin

RT anemias

RT carboxyhemoglobin

RT erythrocytes

RT hematoporphyrins

RT heme

RT hemosiderin

RT iron

RT protoporphyrins

RT respiration

**HEMOLYSINS**

1999-03-01

BT1 antibodies

RT complement

RT hemolysis

**HEMOLYSIS**

The alteration, dissolution, or destruction of red blood cells in such a manner that hemoglobin is liberated into the medium in which the cells are suspended.

\*BT1 decomposition

BT1 lysis

BT1 pathological changes

RT anemias

RT erythrocytes

RT hemic diseases

RT hemolysins

RT immunity

**HEMOPHILIA**

INIS: 1987-03-24; ETDE: 1987-11-24

\*BT1 hemic diseases

\*BT1 hereditary diseases

RT blood coagulation

RT hemorrhage

**hemophilus**

USE haemophilus

**hemopoiesis**

USE blood formation

**HEMORRHAGE**

BT1 pathological changes

BT1 symptoms

RT anemias



*RT* blood  
*RT* blood coagulation  
*RT* blood vessels  
*RT* hematomas  
*RT* hemic diseases  
*RT* hemophilia

**HEMOSIDERIN**

\*BT1 metalloproteins  
 BT1 pigments  
 \*BT1 porphyrins  
*RT* blood  
*RT* ferritin  
*RT* hemoglobin  
*RT* iron

**hemostatics**

*INIS: 2000-04-12; ETDE: 1981-04-20*  
 See also **BLOOD COAGULATION FACTORS**  
 and its narrower terms.  
 (Prior to March 1997 this was a valid ETDE  
 descriptor.)  
 USE coagulants

**hens**

USE chickens

**HEPARIN**

\*BT1 anticoagulants  
 \*BT1 mucopolysaccharides  
 \*BT1 organic sulfur compounds  
*RT* mast cells

**heparin antagonists**

*INIS: 2000-04-12; ETDE: 1981-04-20*  
 (Prior to April 1994, this was a valid ETDE  
 descriptor.)  
 USE coagulants

**HEPATECTOMY**

\*BT1 surgery  
*RT* digestive system diseases  
*RT* liver

**HEPATITIS**

\*BT1 digestive system diseases  
 NT1 infectious hepatitis  
*RT* jaundice  
*RT* liver

**hepatitis (infectious)**

USE infectious hepatitis

**hepatocytes**

*INIS: 1983-06-30; ETDE: 1982-07-08*  
 USE liver cells

**HEPATOMAS**

\*BT1 carcinomas  
*RT* liver

**HEPTANE**

\*BT1 alkanes

**HEPTANOIC ACID**

*UF* *enantic acid*  
*UF* *heptylic acid*  
 \*BT1 monocarboxylic acids

**HEPTENES**

\*BT1 alkenes

**HEPTYL RADICALS**

\*BT1 alkyl radicals

**heptylic acid**

USE heptanoic acid

**HERA STORAGE RING**

*INIS: 1984-05-28; ETDE: 1984-06-14*  
*Hadron-Elektron-Ring Anlage.*  
 BT1 storage rings

**HERALD REACTOR**

*UK Ministry of Defence, Aldermaston,  
 Reading, Berkshire, United Kingdom.*  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**HERBICIDES**

BT1 pesticides

**HERBIG-HARO OBJECTS**

*INIS: 2000-04-12; ETDE: 1989-04-19*  
*Small faint patches of nebulosity seen on  
 surfaces of many dark clouds believed to be a  
 very early phase in stellar evolution.*  
*RT* nebulae  
*RT* star evolution

**HERBS**

*1996-11-13*  
*UF* *coleus*  
 BT1 plants  
 NT1 marihuana  
 NT1 meadow foam

**HEREDITARY DISEASES**

*UF* *xeroderma pigmentosum*  
 BT1 diseases  
 NT1 downs syndrome  
 NT1 hemophilia  
*RT* chromosomal aberrations  
*RT* congenital diseases  
*RT* genetics  
*RT* mutants  
*RT* mutations  
*RT* sickle cell anemia  
*RT* sister chromatid exchanges

**heredity**

USE genetics

**hermex process**

*1996-06-28*  
 (Until June 1996 this was a valid descriptor.)  
 USE reprocessing

**HERMITE POLYNOMIALS**

\*BT1 polynomials

**HERMITIAN MATRIX**

BT1 matrices

**HERMITIAN OPERATORS**

BT1 mathematical operators

**HERO REACTOR**

*UF* *hot experimental reactor zero energy*  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 zero power reactors

**HEROIN**

*1996-07-08*  
*UF* *diacetylmorphine*  
 \*BT1 narcotics  
*RT* codeine  
*RT* morphine

**HERPES SIMPLEX**

\*BT1 skin diseases  
 \*BT1 viral diseases  
*RT* viruses

**HERPES ZOSTER**

\*BT1 nervous system diseases  
 \*BT1 viral diseases  
*RT* nerves  
*RT* viruses

**HERTZSPRUNG-RUSSELL  
 DIAGRAM**

\*BT1 diagrams  
*RT* star evolution

**hesperidin**

*1996-06-28*  
 (Until June 1996 this was a valid descriptor.)  
 USE flavones  
 USE glycosides

**HETEROCHROMATIN**

BT1 chromatin  
*RT* chromosome breakage

**HETEROCHROMOSOMES**

*UF* *sex chromosomes*  
 BT1 chromosomes  
 NT1 x chromosome  
 NT2 human x chromosome  
 NT1 y chromosome  
 NT2 human y chromosome  
*RT* chromosomal aberrations  
*RT* sex

**HETEROCYCLIC ACIDS**

*1996-10-22*  
*UF* *biliverdin*  
*UF* *diodrast*  
*UF* *iodopyracet*  
*UF* *kynurenic acid*  
*UF* *urobilinogen*  
 \*BT1 carboxylic acids  
 \*BT1 heterocyclic compounds  
 NT1 bilirubin  
 NT1 biotin  
 NT1 histidine  
 NT1 hydroxyproline  
 NT1 lysergic acid  
 NT1 nicotinic acid  
 NT1 orotic acid  
 NT1 picolinic acid  
 NT1 porphyrins  
 NT2 chlorins  
 NT2 chlorophyll  
 NT2 hematoporphyrins  
 NT2 heme  
 NT2 hemoglobin  
 NT3 methemoglobin  
 NT2 hemosiderin  
 NT2 myoglobin  
 NT2 protoporphyrins  
 NT1 proline  
 NT1 rhodamines  
 NT1 thioctic acid  
 NT1 tryptophan  
 NT1 urocanic acid  
*RT* nicotinamide

**HETEROCYCLIC COMPOUNDS**

*1996-10-23*  
*UF* *guanethidine*  
 BT1 organic compounds  
 NT1 azaarenes  
 NT2 acridines  
 NT3 acridine orange  
 NT3 flavines  
 NT4 acriflavine  
 NT4 proflavine  
 NT2 carbazoles  
 NT2 indoles  
 NT3 indigo  
 NT3 indocyanine green  
 NT3 lysergic acid  
 NT3 reserpine  
 NT3 strychnine  
 NT3 tryptamines  
 NT4 melatonin  
 NT4 serotonin  
 NT5 bufotenine

NT3 tryptophan  
 NT3 vinblastine  
 NT2 phenanthrolines  
 NT3 ferroin  
 NT3 phenanthroline-ortho  
 NT2 pteridines  
 NT3 aminopterin  
 NT3 folic acid  
 NT2 purines  
 NT3 adenines  
 NT4 kinetin  
 NT3 guanine  
 NT3 guanosine  
 NT3 hypoxanthine  
 NT3 inosine  
 NT3 mercaptopurine  
 NT3 xanthines  
 NT4 caffeine  
 NT4 theobromine  
 NT4 theophylline  
 NT4 uric acid  
 NT2 quinolines  
 NT3 ferron  
 NT3 oxine  
 NT3 quinaldine  
 NT1 azines  
 NT2 phenothiazines  
 NT3 chlorpromazine  
 NT3 methylene blue  
 NT2 pyrazines  
 NT3 phenazine  
 NT3 piperazines  
 NT2 pyridazines  
 NT3 phthalazines  
 NT4 luminol  
 NT2 pyridines  
 NT3 acridines  
 NT4 acridine orange  
 NT4 flavines  
 NT5 acriflavine  
 NT5 proflavine  
 NT3 bipyridines  
 NT3 nicotinamide  
 NT3 nicotine  
 NT3 nicotinic acid  
 NT3 picolines  
 NT4 picolinic acid  
 NT3 piperidines  
 NT4 dipyridamole  
 NT4 pethidine  
 NT4 triacetoneamine-n-oxyl  
 NT3 pyridine  
 NT3 pyridinium compounds  
 NT3 pyridoxal  
 NT3 pyridoxine  
 NT3 pyridoxylideneglutamate  
 NT3 pyridylazonaphthol  
 NT3 pyridylazoresorcinol  
 NT3 quinolines  
 NT4 ferron  
 NT4 oxine  
 NT4 quinaldine  
 NT2 pyrimidines  
 NT3 alloxan  
 NT3 barbiturates  
 NT4 nembutal  
 NT4 phenobarbital  
 NT3 cytidine  
 NT3 cytosine  
 NT3 deoxycytidine  
 NT3 thiamine  
 NT3 thymidine  
 NT3 uracils  
 NT4 bromouracils  
 NT5 budr  
 NT4 chlorouracils  
 NT4 deoxyuridine  
 NT4 fluorouracils  
 NT5 fudr

NT4 iodouracils  
 NT5 iododeoxyuridine  
 NT4 orotic acid  
 NT4 thiouracil  
 NT4 thymine  
 NT4 uridine  
 NT2 triazines  
 NT3 cyanurates  
 NT3 melamine  
 NT1 azoles  
 NT2 carbazoles  
 NT2 imidazoles  
 NT3 allantoin  
 NT3 benzimidazoles  
 NT3 biotin  
 NT3 creatinine  
 NT3 histamine  
 NT3 histidine  
 NT3 hydantoin  
 NT3 metronidazole  
 NT3 misonidazole  
 NT3 urocanic acid  
 NT2 oxadiazoles  
 NT2 oxazoles  
 NT3 benzoxazoles  
 NT3 popop  
 NT2 pyrazoles  
 NT3 indazoles  
 NT3 pyrazoles  
 NT4 antipyrine  
 NT2 pyrroles  
 NT3 bilirubin  
 NT3 indoles  
 NT4 indigo  
 NT4 indocyanine green  
 NT4 lysergic acid  
 NT4 reserpine  
 NT4 strychnine  
 NT4 tryptamines  
 NT5 melatonin  
 NT5 serotonin  
 NT6 bufotenine  
 NT4 tryptophan  
 NT4 vinblastine  
 NT3 pyrrolidines  
 NT4 hydroxyproline  
 NT4 nicotine  
 NT4 proline  
 NT3 pyrrolidones  
 NT4 pvp  
 NT2 tetrazoles  
 NT3 tetrazolium  
 NT2 thiadiazoles  
 NT2 thiazoles  
 NT3 benzothiazoles  
 NT3 saccharin  
 NT3 thiamine  
 NT2 triazoles  
 NT1 bedt-ttf  
 NT1 dioxane  
 NT1 dioxin  
 NT1 furans  
 NT2 benzofurans  
 NT2 furfural  
 NT2 tetrahydrofuran  
 NT3 mthf  
 NT1 heterocyclic acids  
 NT2 bilirubin  
 NT2 biotin  
 NT2 histidine  
 NT2 hydroxyproline  
 NT2 lysergic acid  
 NT2 nicotinic acid  
 NT2 orotic acid  
 NT2 picolinic acid  
 NT2 porphyrins  
 NT3 chlorins  
 NT3 chlorophyll  
 NT3 hematoporphyrins

NT3 heme  
 NT3 hemoglobin  
 NT4 methemoglobin  
 NT3 hemosiderin  
 NT3 myoglobin  
 NT3 protoporphyrins  
 NT2 proline  
 NT2 rhodamines  
 NT2 thioctic acid  
 NT2 tryptophan  
 NT2 urocanic acid  
 NT1 heterocyclic oxygen compounds  
 NT2 pyrans  
 NT3 coumarin  
 NT3 hematoxylin  
 NT3 pyrones  
 NT3 quercetin  
 NT3 tetrahydropyran  
 NT1 imipramine  
 NT1 isoalloxazines  
 NT2 diaphorase  
 NT1 lactones  
 NT2 coumarin  
 NT2 gibberellic acid  
 NT1 morpholines  
 NT1 phthalocyanines  
 NT1 polycyclic sulfur heterocycles  
 NT1 psoralen  
 NT1 tetrathiafulvalene  
 NT1 thionaphthenes  
 NT1 thionine  
 NT1 thiophene  
 NT1 tmts f  
 NT1 trioxanes  
 NT1 tta  
 NT1 ttf-tnq  
 RT cyanine dyes  
 RT epoxides  
 RT lactams  
 RT squarylium dyes

## HETEROCYCLIC OXYGEN COMPOUNDS

INIS: 1984-04-04; ETDE: 1978-08-08

UF oxetane

UF polytetraoxane

\*BT1 heterocyclic compounds

\*BT1 organic oxygen compounds

NT1 pyrans

NT2 coumarin

NT2 hematoxylin

NT2 pyrones

NT2 quercetin

NT2 tetrahydropyran

RT furans

## HETERODYNE RECEIVERS

1976-02-11

UF superheterodyne receivers

\*BT1 microwave equipment

\*BT1 radio equipment

RT frequency converters

RT radiometers

## HETEROGENEOUS CATALYSIS

INIS: 1992-02-22; ETDE: 1984-07-20

Catalysis occurring at a phase boundary, usually a solid-fluid interface.

BT1 catalysis

## HETEROGENEOUS EFFECTS

Effects of dissimilar constituents on neutron diffusion in shielding or reactor cores.

RT absorption

RT homogenization methods

RT neutron flux

RT reactor kinetics

RT reservoir rock

RT shielding

**HETEROGENEOUS REACTOR CORES**

*INIS: 1981-05-11; ETDE: 1981-06-13*  
*Reactor cores using various types of fuel simultaneously.*

- \*BT1 reactor cores
- RT fbr type reactors

**HETEROJUNCTIONS**

*INIS: 1982-08-27; ETDE: 1981-07-18*  
 (Prior to July 1981, this concept in ETDE was indexed to SEMICONDUCTOR JUNCTIONS.)

- BT1 semiconductor junctions
- RT homojunctions
- RT quantum wells

**heteropoly acids**

*INIS: 2000-04-12; ETDE: 1979-08-08*  
*Complex acids of metals, whose specific gravity is >4, with phosphoric acid. See also MOLYBDOPHOSPHORIC ACID and TUNGSTOPHOSPHORIC ACID.*  
 (Prior to March 1997 this was a valid ETDE descriptor.)

- USE inorganic acids

**HETEROPOLYANIONS**

- \*BT1 anions
- BT1 complexes
- RT molybdophosphoric acid
- RT tungstophosphoric acid

**heterozygotes**

- USE hybridization

**HEULANDITE**

*INIS: 2000-04-12; ETDE: 1976-01-23*  
*A zeolite mineral.*

- \*BT1 zeolites

**HEUSLER ALLOYS**

- \*BT1 aluminium alloys
- \*BT1 copper base alloys
- \*BT1 corrosion resistant alloys
- \*BT1 manganese alloys
- RT brass
- RT bronze

**HEVEA**

- \*BT1 rubber trees

**HEW-305 REACTOR**

*2000-04-12*  
*US AEC, Richland, Washington, USA.*

- UF hanford 305 test reactor
- \*BT1 graphite moderated reactors
- \*BT1 natural uranium reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

**hewlett-packard computers**

- USE hp computers

**HEXADECANE**

- \*BT1 alkanes

**HEXADECANOIC ACID**

- UF palmitic acid
- \*BT1 monocarboxylic acids

**HEXADECAPLES**

*1977-11-02*  
 BT1 multipoles

**hexagonal close packed**

- USE hcp lattices

**HEXAGONAL CONFIGURATION**

- BT1 configuration

**HEXAGONAL LATTICES**

- \*BT1 crystal lattices
- NT1 hcp lattices

**hexahydropyridines**

- USE piperidines

**hexamethylenediaminetetraacetic acid**

*1996-10-23*  
 (Prior to March 1997 HMDTA was used for this concept in ETDE.)

- USE amino acids
- USE chelating agents

**hexamethylenetetramine**

- USE urotropin

**HEXANE**

- \*BT1 alkanes
- RT cyclohexane

**HEXANOIC ACID**

- UF caproic acid
- \*BT1 monocarboxylic acids

**HEXANOLS**

- UF hexyl alcohols
- \*BT1 alcohols

**HEXAPOLAR CONFIGURATIONS**

- \*BT1 multipolar configurations

**HEXAPOLES**

- BT1 multipoles

**HEXENES**

- \*BT1 alkenes

**HEXOKINASE**

- \*BT1 phosphotransferases

**HEXOSAMINES**

- \*BT1 amines
- \*BT1 hexoses
- NT1 glucosamine

**HEXOSES**

- UF cycasin
- UF fucose
- \*BT1 monosaccharides
- NT1 fructose
- NT1 galactose
- NT1 glucose
- NT1 hexosamines
- NT2 glucosamine
- NT1 mannose
- NT1 sorbose

**HEXOSYL TRANSFERASES**

*INIS: 2000-04-12; ETDE: 1981-06-13*  
*Code number 2.4.1.*  
 \*BT1 glycosyl transferases

**hexyl alcohols**

- USE hexanols

**HEXYL RADICALS**

- \*BT1 alkyl radicals

**HEYSHAM-A REACTOR**

*Heysham, Lancashire, United Kingdom.*

- \*BT1 agr type reactors
- \*BT1 carbon dioxide cooled reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**HEYSHAM-B REACTOR**

*Heysham, Lancashire, United Kingdom.*

- \*BT1 agr type reactors
- \*BT1 carbon dioxide cooled reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**hf radiation**

- USE short wave radiation

**HFBR REACTOR**

*Association of Universities Inc., Upton, New York, USA.*

- UF brookhaven high flux beam reactor
- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- RT tristan separator

**HFETR REACTOR**

*INIS: 1986-04-03; ETDE: 1986-06-12*

- UF high flux engineering test reactor
- \*BT1 enriched uranium reactors
- \*BT1 materials testing reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**HFIR REACTOR**

*ORNL, Oak Ridge, Tennessee, USA.*

- UF high flux isotope reactor
- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**HFR REACTOR**

*Commission of the European Communities, Joint Research Centre, Petten, Netherlands.*

- UF high flux reactor petten
- UF high-flux reactor petten
- UF petten high flux reactor
- \*BT1 enriched uranium reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**hfs**

- USE hyperfine structure

**HG12 SEMICONDUCTOR DETECTORS**

*INIS: 1975-12-09; ETDE: 1976-01-26*  
*Mercury iodide semiconductor detectors.*

- UF mercuric iodide detectors
- \*BT1 semiconductor detectors

**hhirf**

*INIS: 2000-04-12; ETDE: 1977-07-23*  
 (Prior to July 1985, this was a valid ETDE descriptor.)

- USE hhirf accelerator

**HHIRF ACCELERATOR**

*INIS: 1978-08-14; ETDE: 1978-10-20*

- UF hhirf
- UF holifield heavy ion research facility
- \*BT1 heavy ion accelerators
- RT heavy ions
- RT ornl isochronous cyclotron

**HIBERNATION**

- UF aestivation
- RT hypothermia
- RT sleep

**hichlor process**

INIS: 2000-04-12; ETDE: 1981-03-17

High temperature chlorination of fly ash in the presence of a reductant for the extraction of aluminium, titanium, and iron.

(Prior to January 1995, this was a valid ETDE descriptor.)

USE waste processing

**HIDDEN VARIABLES**

1985-11-18

(Prior to December 1985

NONMEASURABLE VARIABLES was used for this concept.)

UF non-measurable variables

UF nonmeasurable variables

RT bell theorem

RT quantum mechanics

RT wave functions

**HIFAR REACTOR**

Australian Atomic Energy Commission, Nuclear Science and Technology Branch, Lucas Heights, Australia.

UF high flux australian reactor

UF high-flux australian reactor

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 materials testing reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

**HIGGS BOSONS**

INIS: 1976-07-16; ETDE: 1976-11-01

BT1 bosons

\*BT1 postulated particles

RT symmetry breaking

**HIGGS MODEL**

INIS: 1977-01-26; ETDE: 1976-04-19

A gauge invariant model describing massive vector bosons, in which the scalar fields form an octet under su-3.

\*BT1 particle models

RT instantons

RT quantum field theory

RT su-3 groups

RT vector mesons

**HIGH ALLOY STEELS**

INIS: 1983-11-09; ETDE: 1988-12-06

\*BT1 steels

NT1 stainless steels

NT2 chromium-nickel steels

NT3 alloy-d-9

NT3 carpenter

NT3 chromium-nickel-molybdenum steels

NT4 alloy-m-813

NT4 steel-cr11ni10mo2ti-l

NT4 steel-cr15ni15motib

NT4 steel-cr16ni13monbv

NT4 steel-cr16ni15mo3nb

NT4 steel-cr16ni16monb

NT4 steel-cr16ni8mo2

NT5 stainless steel-16-8-2

NT4 steel-cr16ni9mo2

NT4 steel-cr17ni12mo3

NT5 stainless steel-316

NT4 steel-cr17ni12mo3-l

NT5 stainless steel-316l

NT5 stainless steel-zcnd17-13

NT4 steel-cr17ni12monb

NT4 steel-cr17ni13mo2ti

NT4 steel-cr17ni13mo3ti

NT4 steel-ni26cr15ti2moyalb

NT5 alloy-a-286

NT3 durco

NT3 enduro

NT3 stainless steel-17-7ph

NT3 stainless steel-303

NT3 stainless steel-329

NT3 stainless steel-ph-15-7-mo

NT3 steel-cr17ni13

NT3 steel-cr17ni7

NT4 stainless steel-301

NT3 steel-cr18ni10

NT4 stainless steel-18-10

NT3 steel-cr18ni10-l

NT3 steel-cr18ni10ti

NT4 stainless steel-321

NT3 steel-cr18ni11

NT4 steel-x6crni1811

NT3 steel-cr18ni11nb

NT4 stainless steel-347

NT3 steel-cr18ni11nbco

NT4 stainless steel-348

NT3 steel-cr18ni12

NT4 stainless steel-305

NT3 steel-cr18ni12ti

NT3 steel-cr18ni8

NT4 stainless steel-18-8

NT3 steel-cr18ni9

NT4 stainless steel-302

NT3 steel-cr18ni9ti

NT3 steel-cr19ni10

NT4 stainless steel-304

NT3 steel-cr19ni10-l

NT4 stainless steel-304l

NT3 steel-cr20ni11

NT4 stainless steel-308

NT3 steel-cr20ni11-l

NT4 stainless steel-308l

NT3 steel-cr23ni14

NT4 stainless steel-309

NT4 stainless steel-309s

NT3 steel-cr23ni18

NT3 steel-cr25ni20

NT4 alloy-hk-40

NT4 stainless steel-310

NT3 steel-ni25cr20

NT4 stainless steel-20-25

NT3 steel-ni36cr12ti3al-l

NT3 timken alloys

NT2 chromium steels

NT3 chromium-molybdenum steels

NT4 chromium-nickel-molybdenum steels

NT5 alloy-m-813

NT5 steel-cr11ni10mo2ti-l

NT5 steel-cr15ni15motib

NT5 steel-cr16ni13monbv

NT5 steel-cr16ni15mo3nb

NT5 steel-cr16ni16monb

NT5 steel-cr16ni8mo2

NT6 stainless steel-16-8-2

NT5 steel-cr16ni9mo2

NT5 steel-cr17ni12mo3

NT6 stainless steel-316

NT5 steel-cr17ni12mo3-l

NT6 stainless steel-316l

NT6 stainless steel-zcnd17-13

NT5 steel-cr17ni12monb

NT5 steel-cr17ni13mo2ti

NT5 steel-cr17ni13mo3ti

NT5 steel-ni26cr15ti2moyalb

NT6 alloy-a-286

NT3 magnet steel-ks

NT3 miduale

NT3 stainless steel-406

NT3 steel-cr10mo2

NT3 steel-cr12

NT4 stainless steel-403

NT3 steel-cr12moniv

NT3 steel-cr12mov

NT4 alloy-ht-9

NT3 steel-cr13

NT4 stainless steel-410

NT3 steel-cr13al

NT4 stainless steel-405

NT3 steel-cr16

NT4 stainless steel-430

NT3 steel-cr16ni

NT3 steel-cr17cu4ni4nb-l

NT4 stainless steel-17-4ph

NT3 steel-cr17mo

NT4 stainless steel-440

NT3 steel-cr17ni4mo3

NT3 steel-cr18

NT3 steel-cr25

NT4 stainless steel-446

NT3 steel-cr9mo

NT3 steel-cr9monbv

NT2 low carbon-high alloy steels

NT3 steel-cr11ni10mo2ti-l

NT3 steel-cr17cu4ni4nb-l

NT4 stainless steel-17-4ph

NT3 steel-cr17ni12mo3-l

NT4 stainless steel-316l

NT4 stainless steel-zcnd17-13

NT3 steel-cr18ni10-l

NT3 steel-cr19ni10-l

NT4 stainless steel-304l

NT3 steel-cr20ni11-l

NT4 stainless steel-308l

NT3 steel-ni36cr12ti3al-l

NT2 stainless steel-317

NT2 stainless steel-318

NT2 stainless steel-422

NT2 stainless steel-fv-548

NT2 stainless steel-jbk-75

NT2 stainless steel m-50

NT2 steel-cr21mn9ni6

NT3 stainless steel-21-6-9

NT2 sweetalloy

**high altitude (stratosphere)**

USE stratosphere

**HIGH-BETA PLASMA**

Plasma with Beta ratio of from 0.1 to 1.0.

BT1 plasma

RT beta ratio

**HIGH BTU GAS**

2000-04-12

Over 900 btu per cubic foot.

UF pipeline quality gas

UF sng

UF synthetic natural gas

\*BT1 fuel gas

RT crg processes

RT cs-r process

RT hygas process

RT kellogg process

RT sng plants

RT sng processes

**HIGH ENERGY PHYSICS**

Use only for articles of a very broad nature such as an annual research program, etc.

BT1 physics

RT nuclear physics

**high energy radiotherapy**

USE radiotherapy

**high explosives**

USE chemical explosives

**high flux australian reactor**

USE hifar reactor

**high-flux australian reactor**

INIS: 1984-07-20; ETDE: 2002-06-13

USE hifar reactor

**high flux engineering test reactor**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE hfetr reactor

**high flux isotope reactor**

USE hfir reactor

**high flux neutron source facility**

INIS: 1994-07-01; ETDE: 1977-10-20  
USE neutron source facilities

**high flux reactor petten**

USE hfr reactor

**high-flux reactor petten**

INIS: 1984-07-20; ETDE: 2002-06-13  
USE hfr reactor

**HIGH FREQUENCY AMPLIFIERS**

\*BT1 amplifiers

**HIGH-FREQUENCY DISCHARGES**

UF microwave discharges  
BT1 electric discharges  
RT high-frequency heating  
RT plasma production

**HIGH-FREQUENCY HEATING**

UF drift pumping  
\*BT1 plasma heating  
NT1 ecr heating  
NT1 icr heating  
NT1 lower hybrid heating  
NT1 magnetic-pumping heating  
NT2 acoustic heating  
NT2 collisional heating  
NT2 transit-time magnetic pumping  
RT high-frequency discharges

**high frequency radiation**

USE short wave radiation

**high-frequency radiation**

INIS: 1984-07-20; ETDE: 2002-06-13  
USE short wave radiation

**HIGH-HEAD HYDROELECTRIC POWER PLANTS**

INIS: 1997-10-03; ETDE: 1978-08-08  
Heads greater than 150 meters.  
\*BT1 hydroelectric power plants

**HIGH INCOME GROUPS**

INIS: 2000-04-12; ETDE: 1978-10-23  
\*BT1 minority groups  
RT income  
RT income distribution  
RT low income groups  
RT socio-economic factors

**HIGH-LEVEL RADIOACTIVE WASTES**

INIS: 1978-05-19; ETDE: 1978-01-23  
Wastes containing more than 100 microcuries/milliliter of radioactivity.

\*BT1 radioactive wastes  
RT ceramic melters  
RT gorleben salt dome  
RT intermediate-level radioactive wastes  
RT low-level radioactive wastes  
RT monitored retrievable storage  
RT nuclear waste policy acts  
RT pamela plant  
RT us mrs project  
RT wipp

**high performance demonstration experiment**

INIS: 2000-04-12; ETDE: 1980-02-11  
USE mhd generator aedc

**HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY**

2004-07-16  
UF high-pressure liquid chromatography  
UF hplc  
\*BT1 liquid column chromatography

**high pressure**

(Prior to November 2003 this was a valid descriptor.)  
USE pressure range mega pa 10-100

**HIGH PRESSURE COOLANT INJECTION**

1979-01-18  
UF hpci  
\*BT1 eccs  
RT reactor safety

**high-pressure liquid chromatography**

2004-07-16  
USE high-performance liquid chromatography

**HIGH-PURITY GE DETECTORS**

INIS: 1975-12-09; ETDE: 1976-01-26  
UF ge detectors (high-purity)  
\*BT1 ge semiconductor detectors

**HIGH-RISE BUILDINGS**

2005-06-01  
Buildings at least 35 meters (12 stories) in height.  
UF multistory buildings  
UF skyscrapers  
BT1 buildings  
RT wind loads

**HIGH ROOMS**

2006-05-26  
Large, open spaces (usually more than 7m high) found in such structures as churches, concert halls, and industrial factories.  
SF halls  
RT atria  
RT buildings  
RT domed structures

**HIGH SEAS**

INIS: 1976-12-08; ETDE: 1994-08-10  
RT fishery laws  
RT maritime laws  
RT seas  
RT territorial waters

**HIGH SPIN STATES**

BT1 energy levels  
RT backbending  
RT spin

**high-sulfur crude oil**

INIS: 1993-03-23; ETDE: 1993-04-16  
USE sour crudes

**HIGH-TC SUPERCONDUCTORS**

INIS: 1990-08-24; ETDE: 1990-03-02  
Superconductors having critical temperature greater than 30 degrees Kelvin.  
\*BT1 type-ii superconductors  
RT chalcogenides  
RT hubbard model  
RT kosterlitz-thouless theory  
RT superconductivity

**high temperature**

1992-02-04  
(Prior to February 1992, this was a valid ETDE descriptor.)  
USE temperature range 0400-1000 k

**HIGH-TEMPERATURE FUEL CELLS**

1992-02-21  
\*BT1 fuel cells  
NT1 molten carbonate fuel cells  
NT1 solid oxide fuel cells

**high temperature gas cooled and graphite moderated reactors**

1993-11-08  
USE htgr type reactors

**high temperature lattice test reactor**

1993-11-08  
USE hltlr reactor

**high temperature test reactor**

INIS: 1988-10-10; ETDE: 2002-06-13  
USE httr reactor

**high-temperature winkler process**

INIS: 2000-04-12; ETDE: 1982-10-05  
USE htw process

**high vacuum**

(Prior to November 2003 this was a valid descriptor.)  
SEE pressure range micro pa  
SEE pressure range milli pa

**high voltage alternating current systems**

INIS: 1996-01-30; ETDE: 1976-05-17  
USE hvac systems

**high voltage direct current systems**

2000-04-12  
USE hvdc systems

**HIGH-VOLTAGE PULSE GENERATORS**

\*BT1 pulse generators  
NT1 marx generators

**highland uranium mill**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE feed materials plants

**HIGHLY ENRICHED URANIUM**

80 - 100 per cent.  
\*BT1 enriched uranium

**highways**

1992-03-05  
USE roads

**HILACS**

UF heavy ion linear accelerators  
\*BT1 heavy ion accelerators  
\*BT1 linear accelerators  
NT1 atlas superconducting linac  
NT1 superhilac  
RT heavy ion reactions  
RT heavy ions

**HILBERT SPACE**

\*BT1 banach space

**HILBERT TRANSFORMATION**

\*BT1 integral transformations

**HILL EQUATION**

\*BT1 differential equations

**HILL-WHEELER THEORY**

RT collective model  
RT nuclear models

**HIMAC ACCELERATOR**

1993-10-03  
Heavy Ion Medical ACcelerator, Chiba, Japan.  
\*BT1 heavy ion accelerators

\*BT1 synchrotrons

**HIMALAYAS**  
1977-11-02  
BT1 mountains

**HINKLEY POINT-A REACTOR**  
*Hinkley Point, Somerset, United Kingdom.*  
\*BT1 carbon dioxide cooled reactors  
\*BT1 magnox type reactors  
\*BT1 thermal reactors

**HINKLEY POINT-B REACTOR**  
*Hinkley Point, Somerset, United Kingdom.*  
\*BT1 agr type reactors  
\*BT1 carbon dioxide cooled reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**HIPERCO**  
2000-04-12  
\*BT1 cobalt alloys  
\*BT1 iron base alloys

**HIPPOCAMPUS**  
1982-02-09  
\*BT1 brain  
RT receptors

**HIPPURAN**  
UF iodhippurate  
UF iodhippurate-na  
UF n-o-iodobenzoylaminoacetate  
UF orthiodhippurate  
UF sodium iodhippurate  
UF sodium n-o-iodobenzoylaminoacetate  
UF sodium orthiodhippurate  
BT1 contrast media  
RT hippuric acid

**HIPPURIC ACID**  
UF benzoylaminoacetic acid  
UF benzoylglycine  
UF benzoylglycocol  
\*BT1 amino acids  
RT glycine  
RT hippuran

**hipure process**  
2000-04-12  
*Process for gas purification if hydrogen sulfide must be removed to one ppm or less and carbon dioxide to only a few ppm.*  
USE desulfurization

**hirfl**  
INIS: 2000-04-12; ETDE: 1983-03-24  
(Prior to July 1985, this was a valid ETDE descriptor.)  
USE hirfl cyclotron

**HIRFL CYCLOTRON**  
INIS: 1983-06-01; ETDE: 1983-07-07  
*Heavy Ion Research Facility, Lanzhou, China.*  
UF heavy ion research facility lanzhou cyclotron  
UF hirfl  
UF lanzhou cyclotron  
\*BT1 heavy ion accelerators  
\*BT1 isochronous cyclotrons

**hirohax process**  
INIS: 2000-04-12; ETDE: 1979-01-30  
*Wet oxidation of adsorbed sulfur compounds to sulfuric acid and ammonium sulfate.*  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE desulfurization

**HIROSHIMA**  
\*BT1 japan  
RT a-bomb survivors  
RT little boy

RT nuclear explosions  
RT nuclear weapons

**HISPANIC AMERICANS**  
INIS: 2000-04-12; ETDE: 1982-01-21  
UF american hispanics  
\*BT1 minority groups  
RT sociology

**HISPANIOLA**  
INIS: 1992-06-04; ETDE: 1980-02-11  
\*BT1 greater antilles  
NT1 dominican republic  
NT1 haiti

**histaminase**  
1997-01-28  
(Until October 1996 this was a valid descriptor.)  
USE amine oxidases

**HISTAMINE**  
\*BT1 amines  
\*BT1 imidazoles  
RT allergy  
RT antihistaminics  
RT capillaries

**HISTIDINE**  
\*BT1 amino acids  
\*BT1 heterocyclic acids  
\*BT1 imidazoles

**HISTOCOMPATIBILITY COMPLEX**  
INIS: 2000-04-12; ETDE: 1988-04-15  
BT1 antigens  
RT graft-host reaction  
RT immune system diseases  
RT immunosuppression  
RT lymphocytes

**HISTOLOGICAL TECHNIQUES**  
INIS: 1975-10-29; ETDE: 1975-12-16  
RT animal tissues  
RT histology  
RT microscopy  
RT stains

**HISTOLOGY**  
RT animal tissues  
RT histological techniques  
RT microscopy

**HISTONES**  
\*BT1 proteins  
RT nucleoproteins  
RT nucleosomes

**HISTORICAL ASPECTS**  
INIS: 1983-06-02; ETDE: 1983-07-07  
*For documents concerning the history of scientific and technical activities.*  
RT archaeology  
RT cultural objects  
RT research programs  
RT sociology

**HITACHI COMPUTERS**  
INIS: 1992-08-18; ETDE: 1986-02-04  
BT1 computers

**hitachi training reactor**  
USE htr reactor

**hitachi zosen process**  
INIS: 2000-04-12; ETDE: 1983-06-20  
*A denitrification process in which ammonia is added to flue gas to selectively reduce nitrogen oxides to nitrogen in a catalytic reactor.*  
(Prior to January 1995, this was a valid ETDE descriptor.)  
SEE air pollution control

SEE denitrification

**HITREX-1 REACTOR**  
INIS: 1977-02-08; ETDE: 1977-04-13  
\*BT1 graphite moderated reactors  
\*BT1 thermal reactors  
\*BT1 zero power reactors

**hitrex-2 reactor**  
INIS: 2000-04-12; ETDE: 1984-08-20  
(Prior to June 1991, this was a valid ETDE descriptor.)  
USE zero power reactors

**hiv**  
2004-05-28  
USE aids virus

**hk 40**  
INIS: 2000-04-12; ETDE: 1979-08-09  
USE steel-cr25ni20

**HL-1 TOKAMAK**  
INIS: 1989-12-08; ETDE: 1990-01-03  
*Southwestern Institute of Physics, Leshan, Sichuan, China.*  
\*BT1 tokamak devices

**HL-1M TOKAMAK**  
1998-09-24  
*Southwestern Institute of Physics, Leshan, Sichuan, China.*  
\*BT1 tokamak devices

**HL-2 TOKAMAK**  
1997-03-07  
*Southwestern Institute of Physics, Leshan, Sichuan, China.*  
\*BT1 tokamak devices

**HL-2A TOKAMAK**  
2003-01-17  
*Southwestern Institute of Physics, Leshan, Sichuan, China.*  
\*BT1 tokamak devices

**hmdta**  
1996-10-23  
*Hexamethylenediaminetetraacetic acid.*  
(Until October 1996 this was a valid descriptor.)  
USE amino acids  
USE chelating agents

**HNPf REACTOR**  
*US AEC, Hallam, Nebraska, USA.*  
*Decommissioned in 1964.*  
UF hallam nuclear power facility  
\*BT1 enriched uranium reactors  
\*BT1 graphite moderated reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors  
\*BT1 thermal reactors

**ho2**  
INIS: 1985-01-18; ETDE: 1982-11-08  
USE hydroperoxy radicals

**HODGKINS DISEASE**  
UF lymphogranuloma malignum  
UF lymphogranulomatosis  
\*BT1 lymphomas

**HODOSCOPES**  
RT counting techniques  
RT telescope counters

**hoelter process**  
INIS: 2000-04-12; ETDE: 1977-03-04  
*Reaction of flue gas sulfur dioxide, dissolved in scrub water, with milk of lime in the presence of chloride ion to prevent the precipitation of carbonate and promote the*

*precipitation of calcium sulfite which is oxidized to calcium sulfate.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

### hoffman process

*INIS: 2000-04-12; ETDE: 1981-04-17*

*Gasification process using entrained mixture of coal and alkali in superheated steam in ebullated catalyst bed.*

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

### hog fuel

*INIS: 2000-04-12; ETDE: 1979-04-11*

USE wood wastes

### hoger onderwijs reactor

USE hor reactor

### hoisting

*INIS: 2000-04-12; ETDE: 1978-05-03*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE materials handling

### HOISTS

*1999-07-12*

(Until July 1999 this information was indexed by CRANES.)

\*BT1 materials handling equipment

RT cranes

RT grabs

RT materials handling

RT winches

### HOKURIKU-1 REACTOR

*2000-04-12*

\*BT1 power reactors

### HOLE MOBILITY

BT1 mobility

### HOLES

*Absence of electrons from otherwise filled electron bands; see also BLACK HOLES, CAVITIES, OPENINGS, BOREHOLES, and VOIDS.*

UF electron holes

RT charge carriers

RT electron-hole coupling

RT electron-hole droplets

RT point defects

RT quasi particles

RT trapping

RT traps

### holifield heavy ion research facility

*INIS: 1978-08-14; ETDE: 1977-07-23*

USE hhif accelerator

### HOLLANDITE

*INIS: 1981-09-18; ETDE: 1981-06-13*

\*BT1 oxide minerals

RT aluminium oxides

RT barium oxides

RT synroc process

RT titanium oxides

### HOLLOW ANODES

*2004-12-20*

\*BT1 anodes

### HOLLOW CATHODES

\*BT1 cathodes

### HOLLOW FUEL RODS

\*BT1 fuel rods

### holly event

*INIS: 1994-10-14; ETDE: 1976-03-12*

*A test made during PROJECT HARDTACK.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE surface explosions

### HOLMES-STRETFORD PROCESS

*2000-04-12*

*Process for removal of sulfur compounds from fuel gas manufactured from coal.*

\*BT1 desulfurization

### HOLMIUM

\*BT1 rare earths

### HOLMIUM 140

*2007-02-14*

\*BT1 holmium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

### HOLMIUM 141

*INIS: 2001-03-15; ETDE: 2001-02-12*

\*BT1 holmium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

### HOLMIUM 142

*2007-02-14*

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

### HOLMIUM 143

*2004-12-15*

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

### HOLMIUM 144

*INIS: 1987-02-25; ETDE: 1987-05-01*

\*BT1 holmium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

### HOLMIUM 145

*INIS: 1988-04-15; ETDE: 1988-05-23*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

### HOLMIUM 146

*1981-09-17*

\*BT1 beta-plus decay radioisotopes

\*BT1 holmium isotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

### HOLMIUM 147

*1982-06-09*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

### HOLMIUM 148

*INIS: 1979-09-18; ETDE: 1979-04-11*

\*BT1 beta-plus decay radioisotopes

\*BT1 holmium isotopes

\*BT1 isomeric transition isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

### HOLMIUM 149

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

### HOLMIUM 150

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

### HOLMIUM 151

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

### HOLMIUM 152

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

### HOLMIUM 153

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

### HOLMIUM 154

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

### HOLMIUM 155

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

### HOLMIUM 156

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 holmium isotopes

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

**HOLMIUM 157**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 holmium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 158**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 holmium isotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 159**

- \*BT1 electron capture radioisotopes
- \*BT1 holmium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**HOLMIUM 160**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 holmium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 161**

- \*BT1 electron capture radioisotopes
- \*BT1 holmium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**HOLMIUM 162**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 holmium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 163**

- \*BT1 electron capture radioisotopes
- \*BT1 holmium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 years living radioisotopes

**HOLMIUM 164**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 holmium isotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 165**

- \*BT1 holmium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**HOLMIUM 165 REACTIONS**

*INIS: 1983-09-05; ETDE: 1982-07-08*  
 \*BT1 heavy ion reactions

**HOLMIUM 165 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**HOLMIUM 166**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 holmium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**HOLMIUM 167**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 holmium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 168**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 holmium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 169**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 holmium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 170**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 holmium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**HOLMIUM 171**

*INIS: 1988-03-08; ETDE: 1988-04-07*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 172**

*INIS: 1990-12-05; ETDE: 1991-01-14*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 173**

*2007-02-14*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 174**

*2007-02-14*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 175**

*2007-02-14*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 holmium isotopes

- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**HOLMIUM ADDITIONS**

*Alloys containing not more than 1% Ho are listed here.*

- \*BT1 holmium alloys
- \*BT1 rare earth additions

**HOLMIUM ALLOYS**

*Alloys containing more than 1% Ho.*

- \*BT1 rare earth alloys
- NT1 holmium additions
- NT1 holmium base alloys

**HOLMIUM BASE ALLOYS**

- \*BT1 holmium alloys

**HOLMIUM BORIDES**

- \*BT1 borides
- \*BT1 holmium compounds

**HOLMIUM BROMIDES**

- \*BT1 bromides
- \*BT1 holmium compounds

**HOLMIUM CARBIDES**

- \*BT1 carbides
- \*BT1 holmium compounds

**HOLMIUM CARBONATES**

*INIS: 2000-04-12; ETDE: 1989-05-11*

- \*BT1 carbonates
- \*BT1 holmium compounds

**HOLMIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 holmium compounds

**HOLMIUM COMPLEXES**

- \*BT1 rare earth complexes

**HOLMIUM COMPOUNDS**

*1997-06-17*

- BT1 rare earth compounds
- NT1 holmium borides
- NT1 holmium bromides
- NT1 holmium carbides
- NT1 holmium carbonates
- NT1 holmium chlorides
- NT1 holmium fluorides
- NT1 holmium hydrides
- NT1 holmium hydroxides
- NT1 holmium iodides
- NT1 holmium nitrates
- NT1 holmium nitrides
- NT1 holmium oxides
- NT1 holmium perchlorates
- NT1 holmium phosphates
- NT1 holmium phosphides
- NT1 holmium selenides
- NT1 holmium silicates
- NT1 holmium silicides
- NT1 holmium sulfates
- NT1 holmium sulfides
- NT1 holmium tellurides

**HOLMIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 holmium compounds

**HOLMIUM HYDRIDES**

- \*BT1 holmium compounds
- \*BT1 hydrides

**HOLMIUM HYDROXIDES**

- \*BT1 holmium compounds
- \*BT1 hydroxides

**HOLMIUM IODIDES**

- \*BT1 holmium compounds
- \*BT1 iodides



**HOLMIUM IONS**

\*BT1 ions

**HOLMIUM ISOTOPES**

BT1 isotopes  
 NT1 holmium 140  
 NT1 holmium 141  
 NT1 holmium 142  
 NT1 holmium 143  
 NT1 holmium 144  
 NT1 holmium 145  
 NT1 holmium 146  
 NT1 holmium 147  
 NT1 holmium 148  
 NT1 holmium 149  
 NT1 holmium 150  
 NT1 holmium 151  
 NT1 holmium 152  
 NT1 holmium 153  
 NT1 holmium 154  
 NT1 holmium 155  
 NT1 holmium 156  
 NT1 holmium 157  
 NT1 holmium 158  
 NT1 holmium 159  
 NT1 holmium 160  
 NT1 holmium 161  
 NT1 holmium 162  
 NT1 holmium 163  
 NT1 holmium 164  
 NT1 holmium 165  
 NT1 holmium 166  
 NT1 holmium 167  
 NT1 holmium 168  
 NT1 holmium 169  
 NT1 holmium 170  
 NT1 holmium 171  
 NT1 holmium 172  
 NT1 holmium 173  
 NT1 holmium 174  
 NT1 holmium 175

**HOLMIUM NITRATES**

\*BT1 holmium compounds  
 \*BT1 nitrates

**HOLMIUM NITRIDES**

\*BT1 holmium compounds  
 \*BT1 nitrides

**HOLMIUM OXIDES**

\*BT1 holmium compounds  
 \*BT1 oxides

**HOLMIUM PERCHLORATES**

INIS: 2000-04-12; ETDE: 1975-10-28  
 \*BT1 holmium compounds  
 \*BT1 perchlorates

**HOLMIUM PHOSPHATES**

1975-10-23  
 \*BT1 holmium compounds  
 \*BT1 phosphates

**HOLMIUM PHOSPHIDES**

INIS: 1978-07-03; ETDE: 1977-04-12  
 \*BT1 holmium compounds  
 \*BT1 phosphides

**HOLMIUM SELENIDES**

INIS: 1984-08-27; ETDE: 1977-12-22  
 \*BT1 holmium compounds  
 \*BT1 selenides

**HOLMIUM SILICATES**

INIS: 1990-07-24; ETDE: 1982-12-01  
 \*BT1 holmium compounds  
 \*BT1 silicates

**HOLMIUM SILICIDES**

INIS: 1975-10-29; ETDE: 1975-12-16  
 \*BT1 holmium compounds

\*BT1 silicides

**HOLMIUM SULFATES**

\*BT1 holmium compounds  
 \*BT1 sulfates

**HOLMIUM SULFIDES**

\*BT1 holmium compounds  
 \*BT1 sulfides

**HOLMIUM TELLURIDES**

INIS: 1988-02-02; ETDE: 1978-05-03  
 \*BT1 holmium compounds  
 \*BT1 tellurides

**holocene epoch**

INIS: 2000-04-12; ETDE: 1977-10-20  
 USE quaternary period

**HOLOGRAPHY**

RT photography

**HOLTSMARK THEORY**

RT plasma

**HOLY SEE**

2008-03-28  
 UF vatican city state  
 BT1 developed countries  
 \*BT1 western europe  
 RT italy

**holzheimer process**

2000-04-12  
 Process for the underground gasification of oil shale, making use of the total energy content of the shale. Waste heat is utilized in special steam generators and distillation columns.  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE in-situ gasification  
 USE oil shales

**HOMALITE**

INIS: 1979-09-18; ETDE: 1979-03-27  
 Brittle polyester used in photoelastic analysis of crack propagation in PWR pressure vessels under LOCA conditions.  
 \*BT1 polyesters  
 RT araldite  
 RT photoelasticity  
 RT stress analysis

**HOME RANGE**

INIS: 1999-09-01; ETDE: 1976-05-13  
 The area to which the activities of an animal are confined.  
 RT ecology  
 RT wild animals

**HOMEOSTASIS**

RT biological recovery  
 RT blood  
 RT blood-brain barrier  
 RT endocrine glands  
 RT hormones  
 RT hypothalamus  
 RT physiology  
 RT pituitary gland

**HOMOCYSTEINE**

ETDE: 1997-03-15  
 \*BT1 amino acids  
 RT cysteine

**homocystine**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE amino acids

**HOMOGENATES**

RT animal cells

RT animal tissues  
 RT biological materials  
 RT in vitro  
 RT organs

**HOMOGENEOUS CATALYSIS**

INIS: 1992-04-13; ETDE: 1984-07-20  
 Catalysis occurring within a single phase, usually a gas or liquid.  
 BT1 catalysis

**HOMOGENEOUS MIXTURES**

1999-10-11  
 \*BT1 mixtures  
 NT1 solutions  
 NT2 aqueous solutions  
 NT2 fuel solutions  
 NT2 hypertonic solutions  
 NT2 isotonic solutions  
 NT2 leachates  
 NT2 process solutions  
 NT2 solid solutions

**HOMOGENEOUS PLASMA**

BT1 plasma

**homogeneous reactor experiment 2**

2000-04-12  
 USE hre-2 reactor

**HOMOGENEOUS REACTORS**

BT1 reactors  
 NT1 fuel dispersion reactors  
 NT2 fluidized bed reactors  
 NT2 slurry reactors  
 NT1 gas fueled reactors  
 NT2 coaxial flow reactors  
 NT2 light bulb reactors  
 NT2 plasma core assembly  
 NT1 liquid homogeneous reactors  
 NT2 aqueous homogeneous reactors  
 NT3 ai-l-77 reactor  
 NT3 argus reactor  
 NT3 ber-2 reactor  
 NT3 byu l-77 reactor  
 NT3 cesnef reactor  
 NT3 dr-1 reactor  
 NT3 ffr reactor  
 NT3 gidra reactor  
 NT3 hre-2 reactor  
 NT3 jrr-1 reactor  
 NT3 kewb reactor  
 NT3 kstr reactor  
 NT3 ncsr-1 reactor  
 NT3 nevada university reactor  
 NT3 prnc-l-77 reactor  
 NT3 supo reactor  
 NT3 wrrr reactor  
 NT1 solid homogeneous reactors  
 NT2 acpr reactor  
 NT2 aerojet-general nucleonics reactors  
 NT2 akr-1 reactor  
 NT2 anex reactor  
 NT2 ebor reactor  
 NT2 nsrr reactor  
 NT2 pebble bed reactors  
 NT3 avr reactor  
 NT3 thtr-300 reactor  
 NT3 vg-400 reactor  
 NT3 vgr-50 reactor  
 NT2 romashka reactor  
 NT2 shca reactor  
 NT2 sur-100 series reactor  
 NT2 treat reactor  
 NT2 triga type reactors  
 NT3 afrri reactor  
 NT3 atpr reactor  
 NT3 colorado triga-mk-3 reactor  
 NT3 cornell triga-mk-2 reactor  
 NT3 dow triga-mk-1 reactor  
 NT3 fir-1 reactor

**NT3** frf-2 reactor  
**NT3** frn reactor  
**NT3** gulf triga-mk-3 reactor  
**NT3** kartini-ppny reactor  
**NT3** lopra reactor  
**NT3** nscr reactor  
**NT3** ostr reactor  
**NT3** prpr reactor  
**NT3** pstr reactor  
**NT3** rtp reactor  
**NT3** trico reactor  
**NT3** triga-1-arizona reactor  
**NT3** triga-1-california reactor  
**NT3** triga-1-hanford reactor  
**NT3** triga-1-hanover reactor  
**NT3** triga-1-heidelberg reactor  
**NT3** triga-1-michigan reactor  
**NT3** triga-2-bandung reactor  
**NT3** triga-2-bangladesh reactor  
**NT3** triga-2-dalat reactor  
**NT3** triga-2-illinois reactor  
**NT3** triga-2-kansas reactor  
**NT3** triga-2-ljubljana reactor  
**NT3** triga-2-mainz reactor  
**NT3** triga-2-musashi reactor  
**NT3** triga-2-pavia reactor  
**NT3** triga-2-pitesti reactor  
**NT3** triga-2 reactor  
**NT3** triga-2-rikkyo reactor  
**NT3** triga-2-rome reactor  
**NT3** triga-2-seoul reactor  
**NT3** triga-2-vienna reactor  
**NT3** triga-3-la jolla reactor  
**NT3** triga-3-munich reactor  
**NT3** triga-3-salazar reactor  
**NT3** triga-3-seoul reactor  
**NT3** triga-brazil reactor  
**NT3** triga-texas reactor  
**NT3** triga-veterans reactor  
**NT3** ucbr reactor  
**NT3** uwnr reactor  
**NT3** wsur reactor

### HOMOGENIZATION METHODS

*INIS: 1981-06-19; ETDE: 1981-08-04*  
*Methods in which the heterogeneities of the reactor core must be considered in separate calculations in which the equivalent homogenized parameters are produced for use in subsequent calculations of the overall flux distribution in the reactor.*

**BT1** calculation methods  
**RT** heterogeneous effects  
**RT** neutron diffusion equation  
**RT** neutron flux  
**RT** neutron transport theory  
**RT** reactor lattice parameters

### HOMOJUNCTIONS

*INIS: 2000-04-12; ETDE: 1981-07-18*  
**BT1** semiconductor junctions  
**RT** heterojunctions

### HOMOPOLAR GENERATORS

*INIS: 1984-04-04; ETDE: 1981-05-18*  
*D-C generators in which the poles presented to the armature are all of the same polarity.*  
**UF** homopolar machines  
**\*BT1** electric generators  
**RT** direct current

### homopolar machines

*INIS: 2000-04-12; ETDE: 1981-05-18*  
**USE** homopolar generators

### homozygotes

*ETDE: 2002-06-13*  
**USE** hybridization

### HONDURAS

**\*BT1** central america

**BT1** developing countries

### HONEY

*ETDE: 1975-09-11*  
**BT1** food

### HONEYCOMB STRUCTURES

*INIS: 1993-03-11; ETDE: 1976-01-07*  
**BT1** mechanical structures  
**RT** solar collectors

### honeylocust trees

*INIS: 2000-04-12; ETDE: 1981-05-18*  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
**USE** leguminosae  
**USE** trees

### HONEYWELL COMPUTERS

**BT1** computers

### HONG KONG

*Former British possession re-integrated into China in 1997.*  
**\*BT1** china

### HONING

**BT1** machining  
**RT** grinding

### HOOKE LAW

**RT** elasticity  
**RT** poisson ratio  
**RT** young modulus

### HOOKWORM

(From 1974 till March 1997  
**NIPPOSTRONGYLUS** was a valid ETDE descriptor.)  
**UF** *nippostrongylus*  
**\*BT1** nematodes  
**BT1** parasites  
**RT** parasitic diseases

### HOPE CREEK-1 REACTOR

*PSEG Nuclear, LLC, Salem, New Jersey, USA.*  
 (Prior to November 1973 known as **NEWBOLD ISLAND-1 REACTOR** for the initially planned site, and older material is so indexed.)  
**\*BT1** bwr type reactors  
**NT1** newbold island-1 reactor

### HOPE CREEK-2 REACTOR

*Public Service Electric and Gas Co., Salem, New Jersey, USA. Canceled in 1981 before construction began.*  
 (Prior to November 1973 known as **NEWBOLD ISLAND-2 REACTOR** for the initially planned site, and older material is so indexed.)  
**\*BT1** bwr type reactors  
**NT1** newbold island-2 reactor

### HOPPERS

*INIS: 2000-04-12; ETDE: 1977-03-04*  
**UF** bunkers  
**BT1** containers

### HOR REACTOR

*Interuniversitair Reactor Instituut/ Technische Hogeschool Delft, Delft, Netherlands.*  
**UF** *delft hoger onderwijs reactor*  
**UF** *hoger onderwijs reactor*  
**\*BT1** enriched uranium reactors  
**\*BT1** pool type reactors  
**\*BT1** research reactors  
**\*BT1** thermal reactors  
**\*BT1** training reactors

### HORACE REACTOR

**\*BT1** enriched uranium reactors

**\*BT1** pool type reactors  
**\*BT1** research reactors  
**\*BT1** zero power reactors

### hordeum

**USE** barley

### HORIZONTAL AXIS TURBINES

*INIS: 1992-09-24; ETDE: 1985-08-22*  
**\*BT1** wind turbines  
**RT** diffuser augmented turbines  
**RT** tipvane rotors  
**RT** vortex augmented turbines

### horizontal concentration

*INIS: 2000-04-12; ETDE: 1979-04-12*  
**USE** horizontal integration

### horizontal diversification

*INIS: 2000-04-12; ETDE: 1979-04-12*  
**USE** horizontal integration

### HORIZONTAL DIVESTITURE

*INIS: 2000-04-12; ETDE: 1977-09-19*  
**RT** petroleum industry  
**RT** regulations

### HORIZONTAL INTEGRATION

*INIS: 2000-05-04; ETDE: 1979-04-12*  
**UF** horizontal concentration  
**UF** horizontal diversification  
**RT** competition  
**RT** industry  
**RT** petroleum industry

### hormone antagonists

*INIS: 2000-04-12; ETDE: 1981-04-20*  
*Use the descriptor below or one of its narrower terms.*  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
**USE** drugs

### HORMONES

**NT1** adrenal hormones  
**NT2** adrenaline  
**NT2** corticosteroids  
**NT3** glucocorticoids  
**NT4** corticosterone  
**NT4** cortisone  
**NT4** dexamethasone  
**NT4** hydrocortisone  
**NT4** prednisolone  
**NT4** prednisone  
**NT3** mineralocorticoids  
**NT4** aldosterone  
**NT2** noradrenaline  
**NT1** peptide hormones  
**NT2** calcitonin  
**NT2** erythropoietin  
**NT2** gastrin  
**NT2** glucagon  
**NT2** insulin  
**NT2** leptin  
**NT2** parathormone  
**NT2** pituitary hormones  
**NT3** acth  
**NT3** gonadotropins  
**NT4** fsh  
**NT4** hcg  
**NT4** lth  
**NT4** luteinizing hormone  
**NT3** liberins  
**NT4** lh-rh  
**NT3** oxytocin  
**NT3** sth  
**NT3** tsh  
**NT3** vasopressin  
**NT2** secretin  
**NT2** thyroid hormones  
**NT3** diiodothyronine

- NT3 thyrocalcitonin
- NT3 thyroxine
- NT3 triiodothyronine
- NT2 thyronine
- NT2 trh
- NT1 steroid hormones
- NT2 androgens
- NT3 androstenedione
- NT3 androsterone
- NT3 hydroxyandrostenedione
- NT3 testosterone
- NT2 corticosteroids
- NT3 glucocorticoids
- NT4 corticosterone
- NT4 cortisone
- NT4 dexamethasone
- NT4 hydrocortisone
- NT4 prednisolone
- NT4 prednisone
- NT3 mineralocorticoids
- NT4 aldosterone
- NT2 estrogens
- NT3 estradiol
- NT3 estrone
- NT3 estrone
- NT2 progesterone
- RT abscisic acid
- RT biochemistry
- RT endocrine diseases
- RT endocrine glands
- RT homeostasis
- RT intrinsic factor
- RT physiology
- RT prostaglandins
- RT receptors
- RT somatostatin
- RT steroids
- RT stimulation

**HORNBLLENDE**

- \*BT1 amphibole
- RT granites
- RT peridotites

**hornfels**

INIS: 2000-04-12; ETDE: 1980-08-12  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE metamorphic rocks

**HORSES**

- \*BT1 mammals

**HORTICULTURE**

INIS: 1992-02-18; ETDE: 1980-10-27  
*The science of growing fruits, vegetables, flowers and ornamental plants.*  
BT1 agriculture  
RT gardening  
RT greenhouses  
RT harvesting

**HOSE INSTABILITY**

- UF firehose instability
- UF gardenhose instability
- \*BT1 plasma microinstabilities

**HOSES**

INIS: 2000-04-12; ETDE: 1976-01-07  
BT1 tubes

**HOSKINS 875**

2000-04-12  
\*BT1 aluminium alloys  
\*BT1 chromium alloys  
\*BT1 iron base alloys

**HOSPITALS**

- BT1 buildings
- BT1 medical establishments
- RT health services
- RT medicine

- RT public buildings

**HOST**

- RT fungal diseases
- RT graft-host reaction
- RT parasitic diseases
- RT rickettsial diseases
- RT transplants
- RT viral diseases

**HOST-CELL REACTIVATION**

- \*BT1 biological repair
- RT bacteria
- RT bacteriophages
- RT chemical radiation effects
- RT dna
- RT radiation injuries

**HOT ATOM CHEMISTRY**

*Chemical reactions of atoms or ions of high kinetic energies (more than 1 ev) resulting from nuclear transformations.*

- UF chemical effects of nuclear transformations
- UF recoil chemistry
- \*BT1 radiochemistry
- NT1 szilard-chalmers reaction
- RT nuclear reactions
- RT recoils
- RT retention
- RT scavenging
- RT valence

**HOT CELLS**

*Shielded chambers for remote handling of radioactive materials.*

- \*BT1 laboratory equipment
- RT gloveboxes
- RT hot labs
- RT manipulators
- RT periscopes
- RT radiation protection
- RT remote handling
- RT remote handling equipment
- RT remote viewing equipment
- RT shielding

**HOT CHANNEL**

- RT fuel channels
- RT hot channel factor
- RT reactor cooling systems

**HOT CHANNEL FACTOR**

- BT1 dimensionless numbers
- RT hot channel
- RT reactor safety

**HOT DIPPING**

- \*BT1 dip coating

**HOT-DRY-ROCK SYSTEMS**

1992-09-01  
UF impermeable dry rock  
BT1 energy systems  
BT1 geothermal systems  
RT hydraulic fractures

**hot enriched carbon moderated thermal oscillator reactor**

1993-11-08  
USE hector reactor

**hot experimental facility**

INIS: 1990-12-06; ETDE: 1980-10-27  
(Prior to December 1990, this was a valid descriptor.)  
USE hef

**hot experimental reactor zero energy**

1993-11-08  
USE hero reactor

**HOT GAS CLEANUP**

INIS: 1993-01-27; ETDE: 1978-04-27

- BT1 purification
- RT acoustic agglomerators
- RT coal gasification
- RT combined-cycle power plants
- RT desulfurization
- RT electrostatic precipitators
- RT filters
- RT filtration
- RT fuel gas

**hot isostatic pressing**

2003-06-26  
USE hot pressing

**HOT LABS**

- UF radiochemical laboratories
- BT1 laboratories
- BT1 nuclear facilities
- RT hot cells
- RT laboratory equipment
- RT manipulators
- RT periscopes
- RT radiation hazards
- RT radiation protection
- RT radioactivity
- RT remote handling

**HOT NUCLEI**

1994-04-12  
*Nuclei with temperatures exceeding 4 MeV.*  
BT1 nuclei

**HOT PLASMA**

- BT1 plasma

**HOT PRESSING**

- UF hot isostatic pressing
- \*BT1 pressing
- RT hot working

**HOT SPOT FACTOR**

- BT1 dimensionless numbers
- RT hot spots
- RT reactor safety

**HOT SPOTS**

- RT burnout
- RT dryout
- RT fuel cans
- RT heat transfer
- RT hot spot factor
- RT reactor cooling systems
- RT rewetting
- RT volcanoes

**hot spots (biological)**

USE biological hot spots

**HOT SPRINGS**

2000-03-31  
*Springs whose temperature is above that of the human body.*  
SF geothermal springs  
SF thermal waters  
\*BT1 thermal springs  
NT1 geysers  
RT hydrothermal systems  
RT mineral springs

**HOT WATER**

INIS: 2000-07-24; ETDE: 1978-10-23  
\*BT1 water  
RT district heating  
RT water heating

**hot water heaters**

INIS: 2000-04-12; ETDE: 1981-01-27  
USE water heaters

**HOT-WATER PROCESSES**

2000-04-12

*Processes used primarily in processing of oil (tar) sands to separate tar from sand.*

- BT1 fluid injection processes  
 RT oil sands  
 RT oil shales

**hot-water systems**

2000-04-12

(Prior to August 1992 this was a valid ETDE descriptor.)

- USE geothermal hot-water systems

**HOT WIRE ANEMOMETERS**

- \*BT1 anemometers

**HOT-WIRE GAGES**

- \*BT1 pressure gages  
 NT1 pirani gages

**HOT WORKING**

- \*BT1 materials working  
 RT extrusion  
 RT forging  
 RT hot pressing  
 RT rolling

**HOTELS***INIS: 2000-04-12; ETDE: 1979-12-17*

- UF inns  
 UF motels  
 UF motor inns  
 \*BT1 commercial buildings  
 RT residential buildings  
 RT tourism

**hough-powell devices**

- USE flying spot digitizers

**HOURLY VARIATIONS***INIS: 1981-07-08; ETDE: 1980-03-04**Variations from hour to hour.*

- BT1 variations

**HOURS LIVING RADIOISOTOPES**

- \*BT1 radioisotopes

NT1 actinium 224  
 NT1 actinium 228  
 NT1 actinium 229  
 NT1 americium 237  
 NT1 americium 238  
 NT1 americium 239  
 NT1 americium 242  
 NT1 americium 244  
 NT1 americium 245  
 NT1 antimony 116  
 NT1 antimony 117  
 NT1 antimony 118  
 NT1 antimony 128  
 NT1 antimony 129  
 NT1 argon 41  
 NT1 arsenic 78  
 NT1 astatine 207  
 NT1 astatine 208  
 NT1 astatine 209  
 NT1 astatine 210  
 NT1 astatine 211  
 NT1 barium 126  
 NT1 barium 129  
 NT1 barium 139  
 NT1 berkelium 243  
 NT1 berkelium 244  
 NT1 berkelium 248  
 NT1 berkelium 250  
 NT1 bismuth 201  
 NT1 bismuth 202  
 NT1 bismuth 203  
 NT1 bismuth 204  
 NT1 bismuth 212  
 NT1 bohrium 273

NT1 bohrium 274  
 NT1 bromine 75  
 NT1 bromine 76  
 NT1 bromine 80  
 NT1 bromine 83  
 NT1 cadmium 107  
 NT1 cadmium 117  
 NT1 californium 247  
 NT1 californium 255  
 NT1 cerium 132  
 NT1 cerium 133  
 NT1 cerium 135  
 NT1 cerium 137  
 NT1 cesium 127  
 NT1 cesium 134  
 NT1 chromium 48  
 NT1 cobalt 55  
 NT1 cobalt 58  
 NT1 cobalt 61  
 NT1 copper 61  
 NT1 copper 64  
 NT1 curium 238  
 NT1 curium 239  
 NT1 curium 249  
 NT1 dubnium 267  
 NT1 dubnium 269  
 NT1 dysprosium 152  
 NT1 dysprosium 153  
 NT1 dysprosium 155  
 NT1 dysprosium 157  
 NT1 dysprosium 165  
 NT1 einsteinium 249  
 NT1 einsteinium 250  
 NT1 einsteinium 256  
 NT1 erbium 158  
 NT1 erbium 161  
 NT1 erbium 163  
 NT1 erbium 165  
 NT1 erbium 171  
 NT1 europium 150  
 NT1 europium 152  
 NT1 europium 157  
 NT1 fermium 251  
 NT1 fermium 254  
 NT1 fermium 255  
 NT1 fermium 256  
 NT1 fluorine 18  
 NT1 gadolinium 159  
 NT1 gallium 66  
 NT1 gallium 68  
 NT1 gallium 72  
 NT1 gallium 73  
 NT1 germanium 66  
 NT1 germanium 75  
 NT1 germanium 77  
 NT1 germanium 78  
 NT1 gold 191  
 NT1 gold 192  
 NT1 gold 193  
 NT1 gold 196  
 NT1 gold 200  
 NT1 hafnium 170  
 NT1 hafnium 171  
 NT1 hafnium 173  
 NT1 hafnium 180  
 NT1 hafnium 182  
 NT1 hafnium 183  
 NT1 hafnium 184  
 NT1 hassium 276  
 NT1 holmium 160  
 NT1 holmium 161  
 NT1 holmium 162  
 NT1 holmium 167  
 NT1 indium 109  
 NT1 indium 110  
 NT1 indium 113  
 NT1 indium 115  
 NT1 indium 117  
 NT1 iodine 120

NT1 iodine 121  
 NT1 iodine 123  
 NT1 iodine 130  
 NT1 iodine 132  
 NT1 iodine 133  
 NT1 iodine 135  
 NT1 iridium 184  
 NT1 iridium 185  
 NT1 iridium 186  
 NT1 iridium 187  
 NT1 iridium 190  
 NT1 iridium 194  
 NT1 iridium 195  
 NT1 iridium 196  
 NT1 iron 52  
 NT1 krypton 76  
 NT1 krypton 77  
 NT1 krypton 83  
 NT1 krypton 85  
 NT1 krypton 87  
 NT1 krypton 88  
 NT1 lanthanum 132  
 NT1 lanthanum 133  
 NT1 lanthanum 135  
 NT1 lanthanum 141  
 NT1 lanthanum 142  
 NT1 lead 198  
 NT1 lead 199  
 NT1 lead 200  
 NT1 lead 201  
 NT1 lead 202  
 NT1 lead 204  
 NT1 lead 209  
 NT1 lead 212  
 NT1 lutetium 176  
 NT1 lutetium 179  
 NT1 magnesium 28  
 NT1 manganese 56  
 NT1 mendelevium 256  
 NT1 mendelevium 257  
 NT1 mendelevium 259  
 NT1 mercury 192  
 NT1 mercury 193  
 NT1 mercury 195  
 NT1 mercury 197  
 NT1 molybdenum 90  
 NT1 molybdenum 93  
 NT1 neodymium 138  
 NT1 neodymium 139  
 NT1 neodymium 141  
 NT1 neodymium 149  
 NT1 neptunium 236  
 NT1 neptunium 240  
 NT1 nickel 65  
 NT1 niobium 89  
 NT1 niobium 90  
 NT1 niobium 96  
 NT1 niobium 97  
 NT1 osmium 181  
 NT1 osmium 182  
 NT1 osmium 183  
 NT1 osmium 189  
 NT1 osmium 191  
 NT1 palladium 101  
 NT1 palladium 109  
 NT1 palladium 111  
 NT1 palladium 112  
 NT1 platinum 185  
 NT1 platinum 186  
 NT1 platinum 187  
 NT1 platinum 189  
 NT1 platinum 197  
 NT1 platinum 200  
 NT1 plutonium 234  
 NT1 plutonium 243  
 NT1 plutonium 245  
 NT1 polonium 204  
 NT1 polonium 205  
 NT1 polonium 207

NTI potassium 42  
 NTI potassium 43  
 NTI praseodymium 137  
 NTI praseodymium 138  
 NTI praseodymium 139  
 NTI praseodymium 142  
 NTI praseodymium 145  
 NTI promethium 150  
 NTI protactinium 228  
 NTI protactinium 234  
 NTI radium 230  
 NTI radon 210  
 NTI radon 211  
 NTI radon 224  
 NTI rhenium 181  
 NTI rhenium 182  
 NTI rhenium 188  
 NTI rhenium 190  
 NTI rhodium 100  
 NTI rhodium 106  
 NTI rhodium 99  
 NTI rubidium 81  
 NTI rubidium 82  
 NTI ruthenium 105  
 NTI ruthenium 95  
 NTI samarium 142  
 NTI samarium 156  
 NTI scandium 43  
 NTI scandium 44  
 NTI selenium 73  
 NTI silicon 31  
 NTI silver 103  
 NTI silver 104  
 NTI silver 112  
 NTI silver 113  
 NTI sodium 24  
 NTI strontium 80  
 NTI strontium 85  
 NTI strontium 87  
 NTI strontium 91  
 NTI strontium 92  
 NTI sulfur 38  
 NTI tantalum 173  
 NTI tantalum 174  
 NTI tantalum 175  
 NTI tantalum 176  
 NTI tantalum 178  
 NTI tantalum 180  
 NTI tantalum 184  
 NTI technetium 93  
 NTI technetium 94  
 NTI technetium 95  
 NTI technetium 99  
 NTI tellurium 116  
 NTI tellurium 117  
 NTI tellurium 119  
 NTI tellurium 127  
 NTI tellurium 129  
 NTI terbium 147  
 NTI terbium 148  
 NTI terbium 149  
 NTI terbium 150  
 NTI terbium 151  
 NTI terbium 152  
 NTI terbium 154  
 NTI terbium 156  
 NTI thallium 195  
 NTI thallium 196  
 NTI thallium 197  
 NTI thallium 198  
 NTI thallium 199  
 NTI thulium 163  
 NTI thulium 166  
 NTI thulium 173  
 NTI tin 110  
 NTI tin 127  
 NTI titanium 45  
 NTI tungsten 176  
 NTI tungsten 177

NTI uranium 240  
 NTI xenon 122  
 NTI xenon 123  
 NTI xenon 125  
 NTI xenon 135  
 NTI ytterbium 164  
 NTI ytterbium 177  
 NTI ytterbium 178  
 NTI yttrium 85  
 NTI yttrium 86  
 NTI yttrium 87  
 NTI yttrium 90  
 NTI yttrium 92  
 NTI yttrium 93  
 NTI zinc 62  
 NTI zinc 69  
 NTI zinc 71  
 NTI zirconium 86  
 NTI zirconium 87  
 NTI zirconium 97  
 RT half-life  
 RT lifetime

## HOUSEHOLDS

INIS: 1992-10-23; ETDE: 1979-12-10  
*Social unit comprised of those living together in the same house, apartment or other dwelling.*  
 RT apartment buildings  
 RT houses  
 RT mobile homes  
 RT residential buildings  
 RT residential sector  
 RT sectoral analysis

## HOUSES

1985-07-22  
 UF residences  
 \*BT1 residential buildings  
 RT households  
 RT mobile homes

## hovercraft

INIS: 2000-04-12; ETDE: 1977-08-09  
 USE air cushion vehicles

## HP COMPUTERS

UF hewlett-packard computers  
 BT1 computers

## hpci

1979-01-18  
 USE high pressure coolant injection

## hpd devices

USE flying spot digitizers

## hpde

INIS: 2000-04-12; ETDE: 1980-02-11  
 USE mhd generator aedc

## HPL

UF human placental lactogen  
 BT1 lactogens  
 RT placenta  
 RT pregnancy  
 RT sth

## hplc

2004-07-16  
 USE high-performance liquid chromatography

## HPRR REACTOR

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1991.  
 UF health physics research reactor  
 \*BT1 air cooled reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 fast reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors

## HRE-2 REACTOR

2000-04-12  
 ORNL, Oak Ridge, Tennessee, USA.  
 UF homogeneous reactor experiment 2  
 \*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 power reactors  
 \*BT1 research reactors  
 \*BT1 test reactors

## HRON RIVER

2004-12-15  
 \*BT1 rivers  
 RT slovakia

## hsa

INIS: 1984-04-04; ETDE: 2002-06-13  
 Human serum albumin.  
 USE albumins  
 USE blood serum

## HSK PROCEDURE

UF hylleraas-scherr-knight procedure  
 BT1 perturbation theory  
 \*BT1 variational methods  
 RT electronic structure  
 RT quantum mechanics

## HSX STELLARATOR

INIS: 1999-01-26; ETDE: 2000-01-25  
 Helical Symmetry Experiment, University of Wisconsin, USA.  
 \*BT1 heliac stellarators

## HT-2 TOKAMAK

INIS: 1999-07-26; ETDE: 1999-09-03  
 Hitachi Tokamak, Ibaraki, Japan.  
 \*BT1 tokamak devices

## HT-6B TOKAMAK

INIS: 1989-12-08; ETDE: 1990-01-03  
 Academia Sinica, Hefei, Anhui, China.  
 \*BT1 tokamak devices

## HT-6M TOKAMAK

INIS: 1989-12-08; ETDE: 1990-01-03  
 Academia Sinica, Hefei, Anhui, China.  
 \*BT1 tokamak devices

## HT-7 TOKAMAK

INIS: 1998-01-28; ETDE: 1998-02-24  
 Academia Sinica, Hefei, Anhui, China.  
 \*BT1 tokamak devices

## HT-7U TOKAMAK

2003-05-20  
 Academia Sinica, Hefei, Anhui, China.  
 UF east tokamak  
 UF experimental advanced superconducting tokamak  
 \*BT1 tokamak devices

## htgr peach bottom reactor

USE peach bottom-1 reactor

## HTGR TYPE REACTORS

1998-01-29  
 UF high temperature gas cooled and graphite moderated reactors  
 \*BT1 gas cooled reactors  
 \*BT1 graphite moderated reactors  
 NTI avr reactor  
 NTI dragon reactor  
 NTI fulton-1 reactor  
 NTI fulton-2 reactor  
 NTI ga standard reactor  
 NTI htr-10 reactor  
 NTI httr reactor  
 NTI kahter reactor  
 NTI peach bottom-1 reactor

**NTI** schmehausen-2 reactor  
**NTI** summit-1 reactor  
**NTI** summit-2 reactor  
**NTI** thtr-300 reactor  
**NTI** vg-400 reactor  
**NTI** vgr-50 reactor  
**NTI** vhtr reactor  
**NTI** vidal-1 reactor  
**NTI** vidal-2 reactor  
**NTI** vrain reactor  
*RT* helium cooled reactors  
*RT* power reactors

**HTLTR REACTOR**

*Pacific Northwest Laboratory, Battelle Memorial Institute, Richland, Washington, USA. Shut down in 1971.*  
*UF* high temperature lattice test reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 nitrogen cooled reactors  
 \*BT1 research reactors  
 \*BT1 test reactors

**htlv iii virus**

*INIS: 1986-05-23; ETDE: 2002-06-13*  
*USE* aids virus

**hto**

1996-06-19  
*USE* tritium oxides

**HTR-10 REACTOR**

*INIS: 1998-01-29; ETDE: 1998-02-24*  
*Tsinghua Univ., Beijing, China.*  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 helium cooled reactors  
 \*BT1 htgr type reactors  
 \*BT1 test reactors

**HTR REACTOR**

*Tokyo Atomic Industrial Research Lab., Ltd, Kanagawa Prefecture, Japan.*  
*UF* hitachi training reactor  
*UF* japan htr  
*UF* kawasaki-hitachi training reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**HTTR REACTOR**

1988-10-10  
*Oarai Research Establishment of JAERI, Oarai, Ibaraki, Japan.*  
*UF* high temperature test reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 helium cooled reactors  
 \*BT1 htgr type reactors

**HTW PROCESS**

*INIS: 2000-04-12; ETDE: 1982-10-05*  
*Rheinische Braunkohlenwerke/FRG coal gasification process which utilizes a fluidized bed reactor with an after-reactor chamber and operates at a pressure of approx. 10 bar and a temperature of approx. 1100 C to produce a high quality synthesis gas.*  
*UF* high-temperature winkler process  
 \*BT1 coal gasification  
*RT* synthesis gas

**HUBBARD MODEL**

*INIS: 1992-04-24; ETDE: 1992-07-09*  
 \*BT1 crystal models  
*RT* antiferromagnetism  
*RT* band theory

*RT* electronic structure  
*RT* ferromagnetism  
*RT* high-*tc* superconductors  
*RT* superconductivity

**HUBBLE EFFECT**

*UF* hubble-humason shift  
*RT* cosmology  
*RT* expansion  
*RT* red shift  
*RT* universe

**hubble-humason shift**

*USE* hubble effect

**HUDSON RIVER**

\*BT1 rivers  
*RT* new jersey  
*RT* new york

**huff and puff process**

*INIS: 2000-04-12; ETDE: 1976-06-07*  
*USE* fluid injection processes

**hughenoltz-pines theory**

*USE* van hove-hughenoltz theory

**HULTHEN POTENTIAL**

1976-07-06  
 \*BT1 nuclear potential

**human cells**

*USE* animal cells

**human chorionic gonadotropin**

*USE* hcg

**HUMAN CHROMOSOME 1**

*INIS: 1994-01-04; ETDE: 1993-12-28*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 12**

1993-02-17  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 13**

*INIS: 1994-01-04; ETDE: 1993-12-28*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 14**

1993-02-17  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 15**

*INIS: 1994-01-04; ETDE: 1993-12-28*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 16**

*INIS: 1992-01-14; ETDE: 1987-10-22*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 17**

*INIS: 1991-12-11; ETDE: 1989-01-27*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 18**

*INIS: 1991-12-11; ETDE: 1992-01-24*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 19**

*INIS: 1991-12-11; ETDE: 1987-07-31*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 2**

1992-10-28  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 21**

*INIS: 1991-12-11; ETDE: 1987-07-31*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 22**

1992-09-24  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 3**

*INIS: 2000-04-12; ETDE: 1992-11-30*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 5**

*INIS: 1991-12-11; ETDE: 1988-04-15*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 6**

*INIS: 2000-04-12; ETDE: 1993-12-28*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 7**

*INIS: 1994-01-04; ETDE: 1993-12-28*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 8**

1993-02-17  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 9**

*INIS: 2000-04-12; ETDE: 1993-12-28*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOMES**

*INIS: 1997-06-17; ETDE: 1991-12-05*  
 (Prior to October 1991, this was indexed by CHROMOSOMES.)

BT1 chromosomes  
**NTI** human chromosome 1  
**NTI** human chromosome 12  
**NTI** human chromosome 13  
**NTI** human chromosome 14  
**NTI** human chromosome 15  
**NTI** human chromosome 16  
**NTI** human chromosome 17  
**NTI** human chromosome 18  
**NTI** human chromosome 19  
**NTI** human chromosome 2  
**NTI** human chromosome 21  
**NTI** human chromosome 22  
**NTI** human chromosome 3  
**NTI** human chromosome 5  
**NTI** human chromosome 6  
**NTI** human chromosome 7  
**NTI** human chromosome 8  
**NTI** human chromosome 9  
**NTI** human x chromosome  
**NTI** human y chromosome  
**NTI** philadelphia chromosome  
*RT* banding techniques  
*RT* cell nuclei  
*RT* chromatids  
*RT* chromatin  
*RT* chromosomal aberrations  
*RT* chromosome sorting  
*RT* dna  
*RT* dna repair  
*RT* gene regulation  
*RT* genes  
*RT* genetic effects  
*RT* genetic mapping  
*RT* karyotype  
*RT* mitosis  
*RT* nucleoli  
*RT* rflps

**HUMAN FACTORS**

1982-02-09  
*Aspects of human behavior which influence events or situations, e.g. actions of operators at nuclear power plants.*  
*SF* psychology  
*RT* accidents  
*RT* aesthetics  
*RT* attitudes  
*RT* behavior  
*RT* drug abuse  
*RT* failures  
*RT* man-machine systems  
*RT* personnel

RT safety  
 RT safety culture  
 RT safety engineering  
 RT sociology

**HUMAN FACTORS ENGINEERING**

INIS: 1995-01-23; ETDE: 1982-06-07

*Application of information on physical and psychological characteristics of man to the design of devices and systems for human use.*

UF ergonomics  
 BT1 engineering  
 RT accidents  
 RT equipment  
 RT hazards  
 RT man-machine systems  
 RT personnel  
 RT safety  
 RT working conditions

**human immune deficiency virus**

2004-05-28

USE aids virus

**HUMAN INTRUSION**

INIS: 1985-07-23; ETDE: 1990-09-13

*Unauthorized entering of people into restricted areas, facilities, etc. See also BIOINTRUSION.*

UF infiltration (by people)  
 UF intrusion (human)  
 SF intrusion  
 RT entry control systems  
 RT fences  
 RT interest groups  
 RT nuclear facilities  
 RT physical protection  
 RT sabotage  
 RT security

**human placental lactogen**

USE hpl

**HUMAN POPULATIONS**

(From August 1980 till April 1997 DEMOGRAPHY was a valid ETDE descriptor.)

UF demography  
 UF humans  
 UF people  
 BT1 populations  
 NT1 a-bomb survivors  
 NT1 eskimos  
 NT1 minority groups  
 NT2 american indians  
 NT2 black americans  
 NT2 elderly people  
 NT2 handicapped people  
 NT2 high income groups  
 NT2 hispanic americans  
 NT2 lapps  
 NT2 low income groups  
 NT2 oriental americans  
 NT1 rural populations  
 NT1 urban populations  
 RT anthropology  
 RT boom towns  
 RT civil defense  
 RT communities  
 RT cuex  
 RT epidemiology  
 RT health services  
 RT icrp critical group  
 RT interest groups  
 RT man  
 RT occupants  
 RT patients  
 RT personnel  
 RT population dynamics  
 RT population relocation

RT public health  
 RT regional analysis  
 RT residential sector  
 RT sociology

**human serum albumin**

INIS: 1984-04-04; ETDE: 2002-06-13

USE albumins  
 USE blood serum

**human tissues**

INIS: 1997-01-28; ETDE: 1996-04-02

USE animal tissues

**HUMAN X CHROMOSOME**

INIS: 1992-01-08; ETDE: 1988-04-15

\*BT1 human chromosomes  
 \*BT1 x chromosome

**HUMAN Y CHROMOSOME**

INIS: 1992-01-08; ETDE: 1988-04-15

\*BT1 human chromosomes  
 \*BT1 y chromosome

**humans**

INIS: 2000-04-12; ETDE: 1981-06-16

USE human populations

**humboldt bay**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE california  
 USE pacific ocean

**HUMBOLDT BAY REACTOR**

*Pacific Gas and Electric Co., Eureka, California, USA. Shut down in 1976; decommissioned in 1988.*

\*BT1 bwr type reactors

**HUMBOLDT GASIFICATION****PROCESS**

INIS: 2000-04-12; ETDE: 1983-04-28

*This process is based on the dissolution of carbon in molten iron. During the process the coal is completely converted leaving no by-products such as tar or other heavy hydrocarbons. The gas produced is practically sulfur free.*

\*BT1 coal gasification

**humeca uranium mill**

INIS: 1996-07-18; ETDE: 1976-08-04

(Until July 1996 this was a valid descriptor.)

USE nuclear facilities

**HUMIC ACIDS**

\*BT1 organic acids  
 RT fulvic acids  
 RT humus  
 RT soils

**HUMIDIFIERS**

INIS: 2000-04-12; ETDE: 1977-06-21

RT dehumidifiers  
 RT electric appliances  
 RT humidity control

**HUMIDISTATS**

\*BT1 control equipment  
 RT humidity control

**HUMIDITY**

SF water content  
 BT1 moisture  
 RT dew point  
 RT humidity recovery  
 RT hygrometry  
 RT moisture gages  
 RT water vapor

**HUMIDITY CONTROL**

BT1 control

RT air conditioning  
 RT humidifiers  
 RT humidistats  
 RT humidity recovery  
 RT thermal comfort

**HUMIDITY RECOVERY**

2004-09-14

RT air conditioners  
 RT heat recovery  
 RT humidity  
 RT humidity control

**HUMUS**

*Material resulting from partial decomposition of plant or animal matter and forming the organic portion of soil.*

RT forest litter  
 RT fulvic acids  
 RT humic acids  
 RT soils

**HUNGARIAN ORGANIZATIONS**

1986-04-03

BT1 national organizations  
 NT1 atomki

**hungarian paks-1 reactor**

USE paks-1 reactor

**hungarian paks-2 reactor**

USE paks-2 reactor

**hungarian paks-3 reactor**

INIS: 1980-07-24; ETDE: 1980-08-12

USE paks-3 reactor

**hungarian paks-4 reactor**

INIS: 1980-07-24; ETDE: 1980-08-12

USE paks-4 reactor

**hungarian wwr-c reactor**

USE wwr-s-budapest reactor

**HUNGARY**

BT1 developing countries  
 \*BT1 eastern europe  
 RT danube river  
 RT oecd

**HUNTERSTON-A REACTOR**

*Hunterston, Ayrshire, United Kingdom.*

\*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 thermal reactors

**HUNTERSTON-B REACTOR**

*Hunterston, Ayrshire, United Kingdom.*

\*BT1 agr type reactors  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**HURRICANES**

BT1 storms  
 RT monsoons  
 RT turbulence  
 RT water waves  
 RT weather  
 RT wind

**HURWITZ EFFECT**

UF bethe-hurwitz effect  
 RT nuclear models

**hushed echo event**

INIS: 2000-04-12; ETDE: 1975-12-16

USE bedrock project

**husky ace event**

INIS: 2000-04-12; ETDE: 1975-09-11

A test made during PROJECT ARBOR.

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**husky pup event**

INIS: 2000-04-12; ETDE: 1977-06-21

- USE anvil project

**hutch event**

1994-10-14

A test made during OPERATION MANDREL.

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**hutchinson island-1 reactor**

- USE lucie-1 reactor

**hutchinson island-2 reactor**

- USE lucie-2 reactor

**huttonite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE silicate minerals
- USE thorium minerals

**HUYGENS PRINCIPLE**

- RT wave propagation

**HVAC SYSTEMS**

INIS: 1996-01-31; ETDE: 1976-05-17

69 kV to 230 kV.

UF high voltage alternating current systems

- \*BT1 ac systems

**HVDC SYSTEMS**

1996-01-31

69 kV to 230 kV.

UF high voltage direct current systems

- \*BT1 dc systems

**HWCTR REACTOR**

Savannah River Plant, Aiken, South Carolina, USA. Shut down in 1964.

UF heavy water components test reactor

- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 materials testing reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**HWGCR TYPE REACTORS**

UF heavy water moderated and gas cooled reactors

- \*BT1 gas cooled reactors
- \*BT1 heavy water moderated reactors
- NT1 bohunice a-1 reactor
- NT1 bohunice a-2 reactor
- NT1 el-4 reactor
- NT1 lucens reactor
- NT1 niederachbach reactor
- RT power reactors

**HWLWR TYPE REACTORS**

UF heavy water moderated and water cooled reactors

- \*BT1 heavy water moderated reactors
- \*BT1 water cooled reactors
- NT1 cirene reactor
- NT1 gentilly reactor
- NT1 jatr reactor
- RT power reactors

**HWRR REACTOR**

INIS: 2003-02-03; ETDE: 2003-01-24

CIAE, Beijing, China.

UF heavy water research reactor

- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors

**HWZPR REACTOR**

2003-08-14

Esfahan nuclear technology centre, Iran.

UF heavy water zero power reactor

- \*BT1 heavy water moderated reactors
- \*BT1 natural uranium reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**HYALURONIC ACID**

- \*BT1 mucopolysaccharides
- RT glucuronic acid
- RT hyaluronidase

**HYALURONIDASE**

Code numbers 3.2.1.35 and 3.2.1.36.

- \*BT1 carbon-oxygen lyases
- \*BT1 o-glycosyl hydrolases
- RT hyaluronic acid

**HYBRID COMPUTERS**

- BT1 computers

**HYBRID ELECTRIC-POWERED VEHICLES**

1992-04-14

- \*BT1 electric-powered vehicles
- RT electric batteries
- RT hybrid systems

**HYBRID REACTORS**

Devices in which controlled self-sustaining fission-fusion processes take place.

- RT hybrid systems
- RT lotus facility
- RT reactors
- RT thermonuclear reactors

**HYBRID RESONANCE**

- BT1 resonance

**HYBRID SYSTEMS**

1992-04-14

Systems using two different types of components performing essentially the same function.

- RT hybrid electric-powered vehicles
- RT hybrid reactors
- RT power transmission
- RT thermonuclear reactors

**HYBRIDIZATION**

UF heterozygotes  
 UF homozygotes  
 UF hybrids  
 UF mixing (genetic)

- NT1 dna hybridization
- NT2 dna-cloning
- RT electronic structure
- RT genetic engineering
- RT genetics
- RT wave functions

**HYBRIDOMAS**

INIS: 1986-05-23; ETDE: 1984-01-27

Hybrid cells resulting from the fusion of myeloma cells with lymphocytes; often used in the production of monoclonal antibodies.

- UF fused cells (animal)
- BT1 animal cells
- RT biotechnology
- RT cell cultures

- RT dna hybridization
- RT lymphocytes
- RT monoclonal antibodies

**hybrids**

- USE hybridization

**HYBTOK TOKAMAKS**

INIS: 1991-08-12; ETDE: 1991-09-13

- \*BT1 tokamak devices

**hycsos**

INIS: 2000-04-12; ETDE: 1979-09-26

Chemical heat pump based on metal hydrides. Hydride Conversion and Storage System.

- USE chemical heat pumps

**HYDANTOINS**

INIS: 2000-04-12; ETDE: 1985-05-07

- \*BT1 imidazoles
- RT urea

**HYDATIDOSIS**

- \*BT1 parasitic diseases
- RT cestodes
- RT parasites

**HYDRA**

- \*BT1 cnidaria

**hydra reactor**

2004-09-09

Russian Research Center, Kurchatov Institute, Moscow, Russia.

- USE gidra reactor

**HYDRANE PROCESS**

2000-04-12

Production of pipeline gas from coal by direct conversion with H to give CH<sub>4</sub>. 1000 psi H flows upward through free-falling pulverized coal at 725 degrees. Carbon, hydrogen sulfide, and dust are removed from product.

- \*BT1 coal gasification
- BT1 sng processes

**hydration**

- USE hydration

**hydrated electrons**

- USE hydration
- USE solvated electrons

**HYDRATES**

For chemical compounds or minerals.

- NT1 gas hydrates
- NT1 unh
- RT water

**HYDRATION**

Addition of water; for addition of hydrogen use HYDROGENATION.

- UF hydration
- UF hydrated electrons
- BT1 solvation

**HYDRAULIC ACCUMULATORS**

INIS: 2000-04-12; ETDE: 1979-08-07

Devices that store potential energy by accumulating a quantity of pressurized hydraulic fluid in a pressure vessel.

- BT1 mechanical energy storage equipment
- \*BT1 tanks
- RT energy storage
- RT hydraulic equipment
- RT hydraulics

**HYDRAULIC CONDUCTIVITY**

INIS: 1983-06-30; ETDE: 1982-03-10

Rate of water flow through porous rock, soil, etc.

- UF meinzer unit



*UF* permeability coefficient (fluid mechanics)  
*RT* fluid mechanics  
*RT* ground water  
*RT* hydrology  
*RT* liquid flow  
*RT* underground disposal

**HYDRAULIC CONTROL DEVICES**

\*BT1 control equipment  
 \*BT1 hydraulic equipment  
*RT* hydraulics  
*RT* remote control

**HYDRAULIC EQUIPMENT**

*INIS*: 1986-07-09; *ETDE*: 1977-01-28

BT1 equipment  
 NT1 hydraulic control devices  
*RT* hydraulic accumulators  
*RT* hydraulic fluids  
*RT* hydraulics  
*RT* natural gas wells  
*RT* petroleum  
*RT* well completion  
*RT* well drilling

**HYDRAULIC FLUIDS**

*INIS*: 1992-03-05; *ETDE*: 1981-11-24

\*BT1 working fluids  
*RT* hydraulic equipment

**HYDRAULIC FRACTURES**

*INIS*: 1992-05-12; *ETDE*: 1980-07-09

\*BT1 fractures  
*RT* cracks  
*RT* fracturing fluids  
*RT* hot-dry-rock systems  
*RT* hydraulic fracturing

**HYDRAULIC FRACTURING**

1975-12-09

*Fracturing of deep rock strata by hydraulic pressure, frequently for the deposition of radioactive wastes.*

BT1 fracturing  
*RT* fluid injection  
*RT* fractures  
*RT* fracturing fluids  
*RT* hydraulic fractures  
*RT* waste disposal  
*RT* well stimulation

**hydraulic fracturing fluids**

*INIS*: 2000-04-12; *ETDE*: 1982-10-05

USE fracturing fluids

**HYDRAULIC MINING**

*INIS*: 2000-04-12; *ETDE*: 1977-05-07

BT1 mining  
*RT* auger mining  
*RT* longwall mining  
*RT* mining engineering

**hydraulic rams**

*INIS*: 2000-04-12; *ETDE*: 1977-01-10

USE pumps

**HYDRAULIC TRANSPORT**

*INIS*: 1984-02-22; *ETDE*: 1976-08-24

BT1 transport  
*RT* hydraulics  
*RT* materials handling  
*RT* pipelines  
*RT* slurries  
*RT* slurry pipelines

**HYDRAULIC TURBINES**

*INIS*: 1992-02-19; *ETDE*: 1976-11-17

*Machines which convert the energy of an elevated water supply into mechanical energy of a rotating shaft.*

\*BT1 turbines

NT1 pump turbines  
*RT* hydraulics  
*RT* penstocks  
*RT* turbogenerators  
*RT* water wheels

**HYDRAULICS**

\*BT1 fluid mechanics  
 NT1 thermal hydraulics  
*RT* flow rate  
*RT* fluid flow  
*RT* friction factor  
*RT* hydraulic accumulators  
*RT* hydraulic control devices  
*RT* hydraulic equipment  
*RT* hydraulic transport  
*RT* hydraulic turbines  
*RT* hydrodynamics  
*RT* penstocks  
*RT* pneumatics  
*RT* solids flow  
*RT* surges  
*RT* water hammer

**HYDRAZIDES**

\*BT1 organic nitrogen compounds  
 NT1 isoniazid  
*RT* hydrazine  
*RT* organic acids

**HYDRAZINE**

1996-07-08

BT1 nitrogen compounds  
*RT* dpph  
*RT* hydrazides  
*RT* hydrazones

**HYDRAZINE FUEL CELLS**

2000-04-12

\*BT1 fuel cells

**HYDRAZOIC ACID**

*INIS*: 1988-06-22; *ETDE*: 1977-04-12

*UF* azomide  
 \*BT1 inorganic acids  
*RT* azides

**HYDRAZONES**

\*BT1 organic nitrogen compounds  
*RT* aldehydes  
*RT* hydrazine  
*RT* ketones

**HYDRIDATION**

BT1 chemical reactions  
*RT* dehydridation  
*RT* hydrides  
*RT* hydrogen  
*RT* hydrogen embrittlement

**HYDRIDE MODERATED REACTORS**

BT1 reactors  
 NT1 acpr reactor  
 NT1 anex reactor  
 NT1 nsrr reactor  
 NT1 stir reactor  
 NT1 szr type reactors  
 NT2 knk-2 reactor  
 NT2 knk reactor  
 NT1 topaz reactor  
 NT1 triga type reactors  
 NT2 affri reactor  
 NT2 atpr reactor  
 NT2 colorado triga-mk-3 reactor  
 NT2 cornell triga-mk-2 reactor  
 NT2 dow triga-mk-1 reactor  
 NT2 fir-1 reactor  
 NT2 firf-2 reactor  
 NT2 frn reactor  
 NT2 gulf triga-mk-3 reactor  
 NT2 kartini-ppny reactor  
 NT2 lopra reactor

NT2 nsrr reactor  
 NT2 ostr reactor  
 NT2 prpr reactor  
 NT2 pstr reactor  
 NT2 rtp reactor  
 NT2 trico reactor  
 NT2 triga-1-arizona reactor  
 NT2 triga-1-california reactor  
 NT2 triga-1-hanford reactor  
 NT2 triga-1-hanover reactor  
 NT2 triga-1-heidelberg reactor  
 NT2 triga-1-michigan reactor  
 NT2 triga-2-bandung reactor  
 NT2 triga-2-bangladesh reactor  
 NT2 triga-2-dalat reactor  
 NT2 triga-2-illinois reactor  
 NT2 triga-2-kansas reactor  
 NT2 triga-2-ljubljana reactor  
 NT2 triga-2-mainz reactor  
 NT2 triga-2-musashi reactor  
 NT2 triga-2-pavia reactor  
 NT2 triga-2-pitesti reactor  
 NT2 triga-2 reactor  
 NT2 triga-2-rikkyo reactor  
 NT2 triga-2-rome reactor  
 NT2 triga-2-seoul reactor  
 NT2 triga-2-vienna reactor  
 NT2 triga-3-la jolla reactor  
 NT2 triga-3-munich reactor  
 NT2 triga-3-salazar reactor  
 NT2 triga-3-seoul reactor  
 NT2 triga-brazil reactor  
 NT2 triga-texas reactor  
 NT2 triga-veterans reactor  
 NT2 ucbr reactor  
 NT2 uwnr reactor  
 NT2 wsur reactor  
 NT1 xma-1 reactor  
*RT* hydride moderators

**HYDRIDE MODERATORS**

BT1 moderators  
*RT* hydride moderated reactors  
*RT* hydrides  
*RT* szr type reactors  
*RT* topaz reactor  
*RT* zirconium hydrides

**HYDRIDES**

1997-06-17

BT1 hydrogen compounds  
 NT1 actinium hydrides  
 NT1 aluminium hydrides  
 NT1 americium hydrides  
 NT1 antimony hydrides  
 NT1 argon hydrides  
 NT1 arsenic hydrides  
 NT1 barium hydrides  
 NT1 berkelium hydrides  
 NT1 beryllium hydrides  
 NT1 bismuth hydrides  
 NT1 boranes  
 NT1 boron hydrides  
 NT1 calcium hydrides  
 NT1 cerium hydrides  
 NT1 cesium hydrides  
 NT1 chromium hydrides  
 NT1 cobalt hydrides  
 NT1 copper hydrides  
 NT1 curium hydrides  
 NT1 dysprosium hydrides  
 NT1 erbium hydrides  
 NT1 europium hydrides  
 NT1 gadolinium hydrides  
 NT1 germanium hydrides  
 NT1 gold hydrides  
 NT1 hafnium hydrides  
 NT1 helium hydrides  
 NT1 holmium hydrides  
 NT1 indium hydrides

**NT1** iridium hydrides  
**NT1** iron hydrides  
**NT1** krypton hydrides  
**NT1** lanthanum hydrides  
**NT1** lead hydrides  
**NT1** lithium hydrides  
**NT2** lithium deuterides  
**NT2** lithium tritides  
**NT1** lutetium hydrides  
**NT1** magnesium hydrides  
**NT1** manganese hydrides  
**NT1** mercury hydrides  
**NT1** molybdenum hydrides  
**NT1** neodymium hydrides  
**NT1** neon hydrides  
**NT1** neptunium hydrides  
**NT1** nickel hydrides  
**NT1** niobium hydrides  
**NT1** nitrogen hydrides  
**NT2** ammonia  
**NT1** palladium hydrides  
**NT1** phosphorus hydrides  
**NT1** platinum hydrides  
**NT1** plutonium hydrides  
**NT1** potassium hydrides  
**NT1** praseodymium hydrides  
**NT1** protactinium hydrides  
**NT1** rhenium hydrides  
**NT1** rhodium hydrides  
**NT1** rubidium hydrides  
**NT1** ruthenium hydrides  
**NT1** samarium hydrides  
**NT1** scandium hydrides  
**NT1** selenium hydrides  
**NT1** silanes  
**NT1** silver hydrides  
**NT1** sodium hydrides  
**NT1** strontium hydrides  
**NT1** tantalum hydrides  
**NT1** technetium hydrides  
**NT1** tellurium hydrides  
**NT1** terbium hydrides  
**NT1** thallium hydrides  
**NT1** thorium hydrides  
**NT1** thulium hydrides  
**NT1** tin hydrides  
**NT1** titanium hydrides  
**NT1** tungsten hydrides  
**NT1** uranium hydrides  
**NT1** vanadium hydrides  
**NT1** xenon hydrides  
**NT1** ytterbium hydrides  
**NT1** yttrium hydrides  
**NT1** zinc hydrides  
**NT1** zirconium hydrides  
**RT** hydridation  
**RT** hydride moderators  
**RT** hydrogen additions  
**RT** hydrogen storage

**HYDRIODIC ACID**

*UF* hydrogen iodides  
**\*BT1** inorganic acids  
**\*BT1** iodine compounds  
**RT** iodides

**HYDRO-LYASES**

*INIS: 1986-12-03; ETDE: 1981-01-12*  
*Code number 4.2.1.*  
**\*BT1** carbon-oxygen lyases  
**NT1** carbonic anhydrase

**HYDROAROMATICS**

*INIS: 2000-04-12; ETDE: 1991-08-27*  
*UF* naphthenes  
**BT1** organic compounds  
**NT1** tetralin  
**RT** aromatics  
**RT** redox reactions

**HYDROBROMIC ACID**

*UF* hydrogen bromides  
**\*BT1** bromine compounds  
**\*BT1** inorganic acids  
**RT** bromides

**HYDROCARBON FUEL CELLS**

*1992-05-20*  
**\*BT1** fuel cells

**hydrocarbon logging**

*INIS: 2000-04-12; ETDE: 1979-03-27*  
**USE** gas meters  
**USE** well logging

**HYDROCARBONS**

*1996-10-22*  
*UF* violanthrone  
**BT1** organic compounds  
**NT1** acenaphthene  
**NT1** alkanes  
**NT2** 2-2-dimethylpropane  
**NT2** 2-methylbutane  
**NT2** 2-methylpropane  
**NT2** butane  
**NT2** cycloalkanes  
**NT3** cyclohexane  
**NT3** decalin  
**NT2** decane  
**NT2** dodecane  
**NT2** ethane  
**NT2** heptane  
**NT2** hexadecane  
**NT2** hexane  
**NT2** methane  
**NT2** octane  
**NT2** paraffin  
**NT2** pentane  
**NT2** propane  
**NT2** squalene  
**NT1** alkenes  
**NT2** 2-methylpropene  
**NT2** butenes  
**NT2** cycloalkenes  
**NT3** cyclopentadiene  
**NT3** norbornadiene  
**NT3** quadricyclene  
**NT2** ethylene  
**NT2** heptenes  
**NT2** hexenes  
**NT2** octenes  
**NT2** pentenes  
**NT2** propylene  
**NT1** alkynes  
**NT2** acetylene  
**NT2** cycloalkynes  
**NT2** propyne  
**NT1** anthracene  
**NT1** azulene  
**NT1** benzanthracene  
**NT1** benzene  
**NT1** benzopyrene  
**NT1** biphenyl  
**NT1** carotenoids  
**NT1** chrysene  
**NT1** cumene  
**NT1** cymene  
**NT1** divinylbenzene  
**NT1** durene  
**NT1** fluorene  
**NT1** indan  
**NT1** indene  
**NT1** mesitylene  
**NT1** naphthalene  
**NT1** oligophenylenes  
**NT1** pentacene  
**NT1** phenanthrene  
**NT1** polycyclic aromatic hydrocarbons  
**NT2** 3-methylcholanthrene  
**NT1** polyenes

**NT2** dienes  
**NT3** allene  
**NT3** butadiene  
**NT3** cyclopentadiene  
**NT3** ferrocene  
**NT3** isoprene  
**NT3** pentadienes  
**NT2** polyacetylenes  
**NT2** squalene  
**NT1** polyphenyls  
**NT2** terphenyls  
**NT3** terphenyl-ortho  
**NT3** terphenyl-para  
**NT1** pyrene  
**NT1** quaterphenyls  
**NT1** stilbene  
**NT1** styrene  
**NT1** tetracene  
**NT1** tetralin  
**NT1** tolan  
**NT1** toluene  
**NT1** triphenylene  
**NT1** xylenes  
**NT2** xylene-para  
**RT** aromatics  
**RT** bromoform  
**RT** fischer-tropsch synthesis  
**RT** fish oil  
**RT** fluidized bed hydrogenation process  
**RT** fluoroform  
**RT** freons  
**RT** iodoform  
**RT** meadow foam  
**RT** oils  
**RT** partial oxidation processes  
**RT** petroleum  
**RT** refrigerants  
**RT** shell gasification process  
**RT** turpentine

**hydrocephalus**

**USE** malformations

**HYDROCHLORIC ACID**

*UF* hydrogen chlorides  
**\*BT1** chlorine compounds  
**\*BT1** inorganic acids  
**RT** aqua regia  
**RT** chlorides

**HYDROCORTISONE**

*UF* cortisol  
**\*BT1** glucocorticoids

**HYDROCRACKING**

*2000-05-08*  
**\*BT1** cracking  
**RT** catalytic cracking  
**RT** thermal cracking

**HYDROCYANIC ACID**

*UF* hydrogen cyanides  
**\*BT1** inorganic acids  
**RT** cyanides

**hydrocyclones**

*INIS: 2000-04-12; ETDE: 1978-07-27*  
**USE** cyclone separators

**HYDRODYNAMIC MASS EFFECT**

*INIS: 1976-03-17; ETDE: 1976-08-24*  
*A virtual increase of the mass of solids when vibrating in fluids.*  
*UF* added mass effect  
*UF* virtual mass effect  
**RT** damping  
**RT** eigenfrequency  
**RT** hydrodynamics  
**RT** mechanical vibrations

**HYDRODYNAMIC MODEL**

*A model for particle production in high-energy collisions that applies relativistic hydrodynamics to the coalesced hadronic matter.*

- \*BT1 thermodynamic model
- RT nuclear models
- RT particle production

**HYDRODYNAMICS**

- \*BT1 fluid mechanics
- NT1 electrohydrodynamics
- NT1 magnetohydrodynamics
- RT counterflow systems
- RT crossflow systems
- RT fluid flow
- RT flute instability
- RT hydraulics
- RT hydrodynamic mass effect
- RT liquid flow
- RT rayleigh-taylor instability
- RT working fluids

**HYDROELECTRIC POWER**

- UF *hydroelectricity*
- \*BT1 electric power
- \*BT1 renewable energy sources
- RT grand river
- RT hydroelectric power plants
- RT pumped storage power plants
- RT water current power generators

**HYDROELECTRIC POWER PLANTS**

1997-10-03

- BT1 power plants
- NT1 high-head hydroelectric power plants
- NT1 low-head hydroelectric power plants
- NT1 medium-head hydroelectric power plants
- NT1 micro-scale hydroelectric power plants
- NT1 pumped storage power plants
- NT1 small-scale hydroelectric power plants
- RT altamaha river
- RT au sable river
- RT dams
- RT fish passage facilities
- RT flood control
- RT hydroelectric power
- RT lewis river
- RT little tennessee river
- RT menominee river
- RT peaking power plants
- RT penstocks
- RT pumped storage
- RT saginaw river
- RT skagit river
- RT spillways
- RT turbines
- RT water wheels

**hydroelectricity**

- USE hydroelectric power

**HYDROFLUORIC ACID**

- UF *hydrogen fluorides*
- \*BT1 fluorine compounds
- \*BT1 inorganic acids
- RT fluorides

**hydroformylation**

INIS: 2000-04-12; ETDE: 1983-06-20

- USE carbonylation

**HYDROGELS**

2006-02-06

*Two-phase colloidal systems in which the disperse phase (particles) has combined with water.*

- \*BT1 gels

- RT polymers
- RT water

**HYDROGEN**

- \*BT1 nonmetals
- RT balmer lines
- RT cryogenic fluids
- RT dehydration
- RT h1 regions
- RT hydridation
- RT hydrogen-based economy
- RT hydrogen embrittlement
- RT hydrogen fuels
- RT hydrogen meters
- RT hydrogen production
- RT hydrogen storage
- RT lyman lines

**HYDROGEN 1**

- UF *protium*
- \*BT1 hydrogen isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- RT hydrogen deuteride

**HYDROGEN 1 MINUS BEAMS**

INIS: 1978-08-14; ETDE: 1978-10-19

- UF *hydrogen minus 1 beams*
- \*BT1 ion beams

**HYDROGEN 1 TARGET**

ETDE: 1976-07-09

- BT1 targets

**hydrogen 2**

- USE deuterium

**hydrogen 3**

- USE tritium

**HYDROGEN 4**

- \*BT1 hydrogen isotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei

**HYDROGEN 5**

- \*BT1 hydrogen isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei

**HYDROGEN 6**

- \*BT1 hydrogen isotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei

**HYDROGEN 7**

- \*BT1 hydrogen isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei

**HYDROGEN ADDITIONS**

- RT hydrides

**HYDROGEN-BASED ECONOMY**

2000-04-12

*Energy industry based on hydrogen for energy storage, distribution, and utilization.*

- RT hydrogen
- RT hydrogen storage
- RT industry

**hydrogen bromides**

- USE hydrobromic acid

**HYDROGEN BURNING**

INIS: 1978-11-24; ETDE: 1980-07-23

*Astrophysical processes only.*

- UF *pp chain*
- UF *proton-proton cycle*
- BT1 star burning
- RT main sequence stars
- RT nucleosynthesis

- RT star evolution

- RT star models

**hydrogen chlorides**

- USE hydrochloric acid

**HYDROGEN COMPLEXES**

- BT1 complexes

**HYDROGEN COMPOUNDS**

- NT1 borohydrides
- NT2 uranium borohydrides
- NT1 deuterium compounds
- NT2 deuterides
- NT3 hydrogen deuteride
- NT3 lithium deuterides
- NT2 deuterium tritide
- NT2 heavy water
- NT1 hydrides
- NT2 actinium hydrides
- NT2 aluminium hydrides
- NT2 americium hydrides
- NT2 antimony hydrides
- NT2 argon hydrides
- NT2 arsenic hydrides
- NT2 barium hydrides
- NT2 berkelium hydrides
- NT2 beryllium hydrides
- NT2 bismuth hydrides
- NT2 boranes
- NT2 boron hydrides
- NT2 calcium hydrides
- NT2 cerium hydrides
- NT2 cesium hydrides
- NT2 chromium hydrides
- NT2 cobalt hydrides
- NT2 copper hydrides
- NT2 curium hydrides
- NT2 dysprosium hydrides
- NT2 erbium hydrides
- NT2 europium hydrides
- NT2 gadolinium hydrides
- NT2 germanium hydrides
- NT2 gold hydrides
- NT2 hafnium hydrides
- NT2 helium hydrides
- NT2 holmium hydrides
- NT2 indium hydrides
- NT2 iridium hydrides
- NT2 iron hydrides
- NT2 krypton hydrides
- NT2 lanthanum hydrides
- NT2 lead hydrides
- NT2 lithium hydrides
- NT3 lithium deuterides
- NT3 lithium tritides
- NT2 lutetium hydrides
- NT2 magnesium hydrides
- NT2 manganese hydrides
- NT2 mercury hydrides
- NT2 molybdenum hydrides
- NT2 neodymium hydrides
- NT2 neon hydrides
- NT2 neptunium hydrides
- NT2 nickel hydrides
- NT2 niobium hydrides
- NT2 nitrogen hydrides
- NT3 ammonia
- NT2 palladium hydrides
- NT2 phosphorus hydrides
- NT2 platinum hydrides
- NT2 plutonium hydrides
- NT2 potassium hydrides
- NT2 praseodymium hydrides
- NT2 protactinium hydrides
- NT2 rhenium hydrides
- NT2 rhodium hydrides
- NT2 rubidium hydrides
- NT2 ruthenium hydrides
- NT2 samarium hydrides

NT2 scandium hydrides  
 NT2 selenium hydrides  
 NT2 silanes  
 NT2 silver hydrides  
 NT2 sodium hydrides  
 NT2 strontium hydrides  
 NT2 tantalum hydrides  
 NT2 technetium hydrides  
 NT2 tellurium hydrides  
 NT2 terbium hydrides  
 NT2 thallium hydrides  
 NT2 thorium hydrides  
 NT2 thulium hydrides  
 NT2 tin hydrides  
 NT2 titanium hydrides  
 NT2 tungsten hydrides  
 NT2 uranium hydrides  
 NT2 vanadium hydrides  
 NT2 xenon hydrides  
 NT2 ytterbium hydrides  
 NT2 yttrium hydrides  
 NT2 zinc hydrides  
 NT2 zirconium hydrides  
 NT1 hydrogen peroxide  
 NT1 hydrogen sulfides  
 NT1 hydroxides  
 NT2 actinium hydroxides  
 NT2 aluminium hydroxides  
 NT2 americium hydroxides  
 NT2 ammonium hydroxides  
 NT2 antimony hydroxides  
 NT2 barium hydroxides  
 NT2 beryllium hydroxides  
 NT2 bismuth hydroxides  
 NT2 boron hydroxides  
 NT2 cadmium hydroxides  
 NT2 calcium hydroxides  
 NT2 cerium hydroxides  
 NT2 cesium hydroxides  
 NT2 chromium hydroxides  
 NT2 cobalt hydroxides  
 NT2 copper hydroxides  
 NT2 curium hydroxides  
 NT2 dysprosium hydroxides  
 NT2 erbium hydroxides  
 NT2 europium hydroxides  
 NT2 gadolinium hydroxides  
 NT2 gallium hydroxides  
 NT2 germanium hydroxides  
 NT2 hafnium hydroxides  
 NT2 helium hydroxides  
 NT2 holmium hydroxides  
 NT2 indium hydroxides  
 NT2 iron hydroxides  
 NT2 lanthanum hydroxides  
 NT2 lead hydroxides  
 NT2 lithium hydroxides  
 NT2 lutetium hydroxides  
 NT2 magnesium hydroxides  
 NT2 manganese hydroxides  
 NT2 molybdenum hydroxides  
 NT2 neodymium hydroxides  
 NT2 neptunium hydroxides  
 NT2 nickel hydroxides  
 NT2 niobium hydroxides  
 NT2 palladium hydroxides  
 NT2 platinum hydroxides  
 NT2 plutonium hydroxides  
 NT2 potassium hydroxides  
 NT2 praseodymium hydroxides  
 NT2 promethium hydroxides  
 NT2 protactinium hydroxides  
 NT2 rhenium hydroxides  
 NT2 rhodium hydroxides  
 NT2 rubidium hydroxides  
 NT2 ruthenium hydroxides  
 NT2 samarium hydroxides  
 NT2 scandium hydroxides  
 NT2 silicon hydroxides

NT2 silver hydroxides  
 NT2 sodium hydroxides  
 NT2 strontium hydroxides  
 NT2 tantalum hydroxides  
 NT2 tellurium hydroxides  
 NT2 terbium hydroxides  
 NT2 thallium hydroxides  
 NT2 thorium hydroxides  
 NT2 thulium hydroxides  
 NT2 tin hydroxides  
 NT2 titanium hydroxides  
 NT2 tungsten hydroxides  
 NT2 uranium hydroxides  
 NT2 vanadium hydroxides  
 NT2 ytterbium hydroxides  
 NT2 yttrium hydroxides  
 NT2 zinc hydroxides  
 NT2 zirconium hydroxides  
 NT1 inorganic acids  
 NT2 boric acid  
 NT2 broensted acids  
 NT2 bromic acid  
 NT2 carbonic acid  
 NT2 chloric acid  
 NT2 chlorous acid  
 NT2 chromic acid  
 NT2 fluoroboric acid  
 NT2 hydrazoic acid  
 NT2 hydriodic acid  
 NT2 hydrobromic acid  
 NT2 hydrochloric acid  
 NT2 hydrocyanic acid  
 NT2 hydrofluoric acid  
 NT2 hypochlorous acid  
 NT2 hypofluorous acid  
 NT2 hypoiodous acid  
 NT2 hypophosphorous acid  
 NT2 iodic acid  
 NT2 lewis acids  
 NT2 molybdic acid  
 NT2 molybdophosphoric acid  
 NT2 nitric acid  
 NT2 nitrous acid  
 NT2 perchloric acid  
 NT2 periodic acid  
 NT2 phosphoric acid  
 NT2 phosphorous acid  
 NT2 silicic acid  
 NT2 sulfamic acid  
 NT2 sulfuric acid  
 NT2 sulfurous acid  
 NT2 telluric acid  
 NT2 tungstophosphoric acid  
 NT1 tritium compounds  
 NT2 tritides  
 NT3 deuterium tritide  
 NT3 helium tritides  
 NT3 hydrogen tritide  
 NT3 lithium tritides  
 NT2 tritium oxides  
 NT1 water  
 NT2 drinking water  
 NT2 feedwater  
 NT2 fresh water  
 NT2 ground water  
 NT3 interstitial water  
 NT3 magmatic water  
 NT2 heavy water  
 NT2 hot water  
 NT2 rain water  
 NT3 throughfall  
 NT2 seawater  
 NT2 tritium oxides  
 NT2 waste water  
 NT3 shale tar water

## HYDROGEN COOLED REACTORS

\*BT1 gas cooled reactors  
 NT1 kiwi reactors

NT2 kiwi-tnt reactor  
 NT1 nerva reactor  
 NT1 nrx-a2 reactor  
 NT1 nrx-a3 reactor  
 NT1 nrx-a4-est reactor  
 NT1 nrx-a5 reactor  
 NT1 nrx-a6 reactor  
 NT1 pewee-1 reactor  
 NT1 pewee-2 reactor  
 NT1 pewee-3 reactor  
 NT1 pewee-4 reactor  
 NT1 phoebus-1a reactor  
 NT1 phoebus-1b reactor  
 NT1 phoebus-2a reactor  
 NT1 rover reactors  
 NT1 xe-prime reactor  
 RT nrx-a7 reactor  
 RT space propulsion reactors  
 RT xe-2 reactor

## hydrogen cyanides

INIS: 2000-04-12; ETDE: 1975-08-19  
 USE hydrocyanic acid

## HYDROGEN DEUTERIDE

1976-03-02

UF deuterium hydride  
 \*BT1 deuterides  
 RT deuterium  
 RT hydrogen 1

## hydrogen donor reactions

INIS: 1981-02-27; ETDE: 1978-10-23  
 USE hydrogen transfer

## HYDROGEN EMBRITTLEMENT

INIS: 1992-06-17; ETDE: 1980-06-06

A decrease in fracture strength of metals due to the incorporation of hydrogen in the metal lattice.

BT1 embrittlement  
 RT brittleness  
 RT fracture properties  
 RT hydridation  
 RT hydrogen  
 RT interstitial hydrogen generation

## hydrogen fluorides

USE hydrofluoric acid

## HYDROGEN FUEL CELLS

1976-07-30

\*BT1 fuel cells

## HYDROGEN FUELS

1992-07-10

\*BT1 synthetic fuels  
 RT automotive fuels  
 RT hydrogen  
 RT jet engine fuels  
 RT slush

## hydrogen generation

INIS: 1990-12-15; ETDE: 1983-04-28  
 (Prior to December 1990, this was a valid descriptor.)

USE interstitial hydrogen generation

## HYDROGEN GENERATORS

2000-01-04

Devices for continuous production of small quantities of hydrogen.

BT1 gas generators  
 RT hydrogen production

## hydrogen hydroxides

USE water

## hydrogen iodides

INIS: 2000-04-12; ETDE: 1983-02-09  
 USE hydriodic acid

**HYDROGEN IONS**

- \*BT1 ions
- NT1 hydrogen ions 1 minus
- NT1 hydrogen ions 1 plus
- NT1 hydrogen ions 2 plus
- NT1 hydrogen ions 3 plus

**HYDROGEN IONS 1 MINUS**

*For monatomic negative hydrogen ions.*

- \*BT1 anions
- \*BT1 hydrogen ions

**HYDROGEN IONS 1 PLUS**

*For monatomic positive hydrogen ions.*

- UF proton-atom collisions
- UF proton-molecule collisions
- \*BT1 cations
- \*BT1 hydrogen ions
- RT h2 regions
- RT oxonium ions
- RT protons

**HYDROGEN IONS 2 PLUS**

*For diatomic singly positive hydrogen ions.*

- \*BT1 cations
- \*BT1 hydrogen ions
- \*BT1 molecular ions

**HYDROGEN IONS 3 PLUS**

*For triatomic singly positive hydrogen ions.*

- \*BT1 cations
- \*BT1 hydrogen ions
- \*BT1 molecular ions

**HYDROGEN ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 deuterium
- NT1 hydrogen 1
- NT1 hydrogen 4
- NT1 hydrogen 5
- NT1 hydrogen 6
- NT1 hydrogen 7
- NT1 tritium

**hydrogen logs**

INIS: 2000-04-12; ETDE: 1979-03-27

- SEE neutron-gamma logging
- SEE neutron logging
- SEE neutron-neutron logging

**HYDROGEN METERS**

1977-10-17

- \*BT1 meters
- RT chemical analysis
- RT hydrogen

**hydrogen minus 1 beams**

INIS: 2000-04-12; ETDE: 1979-03-05

- USE hydrogen 1 minus beams

**hydrogen nitrates**

- USE nitric acid

**HYDROGEN PEROXIDE**

- BT1 hydrogen compounds
- \*BT1 peroxides

**hydrogen phosphates**

- USE phosphoric acid

**HYDROGEN PRODUCTION**

1994-10-13

*For industrial hydrogen production only; see also INTERSTITIAL HYDROGEN PRODUCTION.*

(Until October 1994 this concept was indexed to HYDROGEN and PRODUCTION.)

- UF production (hydrogen)
- RT autothermal reformer processes
- RT biophotolysis
- RT bosch process

- RT hydrogen
- RT hydrogen generators
- RT partial oxidation processes
- RT photoelectrolysis
- RT reformer processes
- RT steam-iron process
- RT steam reformer processes
- RT thermochemical processes
- RT water gas processes

**hydrogen production rates**

INIS: 2000-04-12; ETDE: 1979-09-26

- USE interstitial hydrogen generation

**hydrogen selenides**

INIS: 2000-04-12; ETDE: 1982-05-12

- USE selenium hydrides

**hydrogen silicates**

- USE silicic acid

**HYDROGEN STORAGE**

1992-02-18

- BT1 storage
- RT chemisorption
- RT cryogenics
- RT energy storage
- RT hydrides
- RT hydrogen
- RT hydrogen-based economy
- RT tanks

**hydrogen sulfates**

- USE sulfuric acid

**HYDROGEN SULFIDES**

UF sulfur hydrides

- BT1 hydrogen compounds
- \*BT1 sulfides
- RT sour crudes

**HYDROGEN TRANSFER**

INIS: 1981-02-27; ETDE: 1978-10-23

- UF hydrogen donor reactions
- RT charge exchange
- RT chemical reactions
- RT isotopic exchange
- RT photochemical reactions

**HYDROGEN TRITIDE**

INIS: 1976-07-06; ETDE: 1976-02-19

- UF tritium hydride
- \*BT1 tritides

**hydrogenase**

1984-06-21

(Prior to July 1984 this was a valid descriptor, and older material is so indexed.)

- USE hydrogenases

**HYDROGENASES**

INIS: 1984-06-21; ETDE: 1981-01-12

Code number 1.12.

- UF hydrogenase
- \*BT1 oxidoreductases

**HYDROGENATION**

- BT1 chemical reactions
- NT1 gulf hds process
- RT clean coke process
- RT cs-r process
- RT dehydrogenation
- RT deuteration
- RT fischer-tropsch synthesis
- RT flash hydrolysis process
- RT lc-fining

**HYDROLASES**

Code number 3.

- \*BT1 enzymes
- NT1 acid anhydases
- NT2 gtp-ases

- NT2 phosphohydrolases
- NT3 atp-ase
- NT1 esterases
- NT2 carboxylesterases
- NT3 cholinesterase
- NT3 lipases
- NT2 phosphatases
- NT3 acid phosphatase
- NT3 alkaline phosphatase
- NT3 nucleotidases
- NT2 phosphodiesterases
- NT3 nucleases
- NT4 dna-ase
- NT5 endonucleases
- NT4 rna-ase
- NT1 glycosyl hydrolases
- NT2 o-glycosyl hydrolases
- NT3 amylase
- NT3 cellulase
- NT3 galactosidase
- NT3 glucosidase
- NT3 glucuronidase
- NT3 hyaluronidase
- NT3 lysozyme
- NT3 xylanase
- NT1 non-peptide c-n hydrolases
- NT2 amidases
- NT3 arginase
- NT3 urease
- NT2 amidinases
- NT1 peptide hydrolases
- NT2 acid proteinases
- NT3 pepsin
- NT2 aminopeptidases
- NT2 carboxypeptidases
- NT2 nonspecific peptidases
- NT3 renin
- NT3 urokinase
- NT2 serine proteinases
- NT3 chymotrypsin
- NT3 fibrinolysin
- NT3 kallikrein
- NT3 thrombin
- NT3 trypsin
- NT2 sh-proteinases
- NT3 cathepsins
- NT3 papain
- NT3 streptococcal proteinase
- RT enzymatic hydrolysis

**HYDROLOGY**

- RT aquifers
- RT drainage
- RT floods
- RT fluid injection
- RT ground water
- RT hydraulic conductivity
- RT lakes
- RT piezometry
- RT rivers
- RT site characterization
- RT surface waters
- RT water influx
- RT water springs
- RT water tables

**HYDROLYSIS**

1997-06-17

- BT1 lysis
- \*BT1 solvolysis
- NT1 acid hydrolysis
- NT1 alkaline hydrolysis
- NT1 autohydrolysis
- NT1 enzymatic hydrolysis
- NT1 saccharification
- NT1 saponification
- RT esters

**HYDROMAGNETIC WAVES**

UF magnetohydrodynamic waves

- NT1** alfvén waves  
**NT1** magnetoacoustic waves  
**NT2** fast magnetoacoustic waves  
*RT* magnetoacoustics  
*RT* plasma surface waves  
*RT* plasma waves  
*RT* shock waves

**HYDROMETALLURGY**

- \***BT1** extractive metallurgy  
*RT* leaching  
*RT* precipitation  
*RT* solvent extraction

**hydronium ions**

- INIS: 2000-04-12; ETDE: 1977-08-24*  
 USE oxonium ions

**HYDRONIUM RADICALS**

- BT1** radicals  
*RT* water

**HYDROPEROXY RADICALS**

- HO2*.  
*UF* *ho2*  
*UF* perhydroxyl radical  
**BT1** radicals

**HYDROPHYLIC POLYMERS**

- 2000-01-11  
 \***BT1** gels  
**BT1** polymers  
*RT* shielding materials  
*RT* water

**HYDROPONIC CULTURE**

- INIS: 1999-05-19; ETDE: 1976-05-13*  
*Growing of plants in a nutrient solution with the mechanical support of an inert medium such as sand.*  
**BT1** cultivation techniques  
*RT* agriculture  
*RT* aquaculture  
*RT* crops  
*RT* greenhouses  
*RT* plant growth

**HYDRORETORTING ASSAY**

- INIS: 2000-04-12; ETDE: 1984-10-10*  
*RT* oil shales  
*RT* shale oil

**HYDROSPHERE**

- RT* aquatic ecosystems  
*RT* atmospheric precipitations  
*RT* cryosphere  
*RT* environment  
*RT* glaciers  
*RT* limnology  
*RT* surface waters  
*RT* water

**HYDROSTATIC BEARINGS**

- INIS: 1978-08-14; ETDE: 1978-10-19*  
**BT1** bearings  
*RT* liquids  
*RT* lubrication

**HYDROSTATICS**

- RT* fluid mechanics  
*RT* pore pressure

**HYDROTHERMAL ALTERATION**

- 1994-10-13  
*Alteration of rocks or minerals by the reaction of hydrothermal water with preexisting solid phases.*  
 (Until October 1994 this concept was indexed to METAMORPHISM.)  
**BT1** metamorphism  
*RT* hydrothermal stage  
*RT* rock-fluid interactions

**hydrothermal convective systems**

- INIS: 2000-04-12; ETDE: 1976-03-11*  
 USE hydrothermal systems

**HYDROTHERMAL STAGE**

- That stage in the cooling of a magma containing volatiles during which the residual fluid is strongly enriched in water and other volatiles.*  
*RT* hydrothermal alteration  
*RT* metamorphism

**HYDROTHERMAL SYNTHESIS**

- INIS: 1999-03-09; ETDE: 1975-12-16*  
*Mineral synthesis in presence of water at elevated temperatures.*  
**BT1** synthesis

**HYDROTHERMAL SYSTEMS**

- 1992-04-08  
*Geothermal system where most of the heat is transferred by the convective circulation of water or steam.*  
*UF* hydrothermal convective systems  
**BT1** energy systems  
**BT1** geothermal systems  
**NT1** geothermal hot-water systems  
**NT1** vapor-dominated systems  
*RT* fumaroles  
*RT* geothermal fluids  
*RT* geysers  
*RT* hot springs  
*RT* thermal springs  
*RT* warm springs

**HYDROT HORITE**

- 2000-04-12  
 \***BT1** silicate minerals  
 \***BT1** thorium minerals  
*RT* thorium silicates

**HYDROTORTING PROCESS**

- 2000-04-12  
*Finely crushed oil shale is retorted under high pressure in presence of hydrogen; process developed by Texaco.*  
*RT* oil shales  
*RT* retorting

**HYDROXAMIC ACIDS**

- \***BT1** amines  
 \***BT1** hydroxy compounds  
**NT1** benzohydroxamic acid  
*RT* organic acids

**HYDROXIDE MODERATORS**

- BT1** moderators  
*RT* hydroxides

**HYDROXIDES**

- 1997-06-19  
*UF* alkalis (hydroxides)  
*UF* hydroxyl ions  
**BT1** hydrogen compounds  
**BT1** oxygen compounds  
**NT1** actinium hydroxides  
**NT1** aluminium hydroxides  
**NT1** americium hydroxides  
**NT1** ammonium hydroxides  
**NT1** antimony hydroxides  
**NT1** barium hydroxides  
**NT1** beryllium hydroxides  
**NT1** bismuth hydroxides  
**NT1** boron hydroxides  
**NT1** cadmium hydroxides  
**NT1** calcium hydroxides  
**NT1** cerium hydroxides  
**NT1** cesium hydroxides  
**NT1** chromium hydroxides  
**NT1** cobalt hydroxides  
**NT1** copper hydroxides

- NT1** curium hydroxides  
**NT1** dysprosium hydroxides  
**NT1** erbium hydroxides  
**NT1** europium hydroxides  
**NT1** gadolinium hydroxides  
**NT1** gallium hydroxides  
**NT1** germanium hydroxides  
**NT1** hafnium hydroxides  
**NT1** helium hydroxides  
**NT1** holmium hydroxides  
**NT1** indium hydroxides  
**NT1** iron hydroxides  
**NT1** lanthanum hydroxides  
**NT1** lead hydroxides  
**NT1** lithium hydroxides  
**NT1** lutetium hydroxides  
**NT1** magnesium hydroxides  
**NT1** manganese hydroxides  
**NT1** molybdenum hydroxides  
**NT1** neodymium hydroxides  
**NT1** neptunium hydroxides  
**NT1** nickel hydroxides  
**NT1** niobium hydroxides  
**NT1** palladium hydroxides  
**NT1** platinum hydroxides  
**NT1** plutonium hydroxides  
**NT1** potassium hydroxides  
**NT1** praseodymium hydroxides  
**NT1** promethium hydroxides  
**NT1** protactinium hydroxides  
**NT1** rhenium hydroxides  
**NT1** rhodium hydroxides  
**NT1** rubidium hydroxides  
**NT1** ruthenium hydroxides  
**NT1** samarium hydroxides  
**NT1** scandium hydroxides  
**NT1** silicon hydroxides  
**NT1** silver hydroxides  
**NT1** sodium hydroxides  
**NT1** strontium hydroxides  
**NT1** tantalum hydroxides  
**NT1** tellurium hydroxides  
**NT1** terbium hydroxides  
**NT1** thallium hydroxides  
**NT1** thorium hydroxides  
**NT1** thulium hydroxides  
**NT1** tin hydroxides  
**NT1** titanium hydroxides  
**NT1** tungsten hydroxides  
**NT1** uranium hydroxides  
**NT1** vanadium hydroxides  
**NT1** ytterbium hydroxides  
**NT1** yttrium hydroxides  
**NT1** zinc hydroxides  
**NT1** zirconium hydroxides  
*RT* bases  
*RT* dawsonite  
*RT* hydroxide moderators  
*RT* hydroxyl radicals  
*RT* hydroxylation

**HYDROXY ACIDS**

1996-10-23

*For carboxylic acids only; for other acids see HYDROXY COMPOUNDS coordinated with the descriptor for the particular acid group, e.g., SULFONIC ACIDS.*

- UF* aluminon  
*UF* aurintricarboxylic acid  
*UF* chrome violet  
*UF* melilotic acid  
*UF* podophyllic acid  
*UF* trihydroxyglutaric acid  
*UF* trioxylglutaric acid  
 \***BT1** carboxylic acids  
**NT1** acetylsalicylic acid  
**NT1** benzoic acid  
**NT1** carnitine  
**NT1** citric acid

NT1 diiodotyrosine  
 NT1 dopa  
 NT1 eddha  
 NT1 eosin  
 NT1 fluorescein  
 NT2 erythrosine  
 NT1 galacturonic acid  
 NT1 gallic acid  
 NT1 gibberellic acid  
 NT1 gluconic acid  
 NT1 glucuronic acid  
 NT1 glyceric acid  
 NT1 glycolic acid  
 NT1 hedta  
 NT1 heida  
 NT1 hydroxyproline  
 NT1 hydroxytryptophan  
 NT1 lactic acid  
 NT1 malic acid  
 NT1 mandelic acid  
 NT1 methyl tyrosine  
 NT1 mevalonic acid  
 NT1 pantothenic acid  
 NT1 rose bengal  
 NT1 salicylic acid  
 NT1 serine  
 NT1 shikimic acid  
 NT1 tartaric acid  
 NT1 threonine  
 NT1 thyronine  
 NT1 tyrosine  
 RT hydroxy compounds  
 RT lactones

**hydroxy-alpha-alanine-beta**

USE serine

**HYDROXY COMPOUNDS**

1996-10-23

For organic compounds only and excluding saccharides, glycosides and hydroxy acids.

UF dianabol  
 UF kynurenic acid  
 UF pregnanediol  
 UF pregnanetriol  
 UF tmpn  
 BT1 organic compounds  
 NT1 alcohols  
 NT2 2-methylpropanol  
 NT2 benzhydrol  
 NT2 benzyl alcohol  
 NT2 butanols  
 NT2 choline  
 NT2 cyclohexanol  
 NT2 decanols  
 NT2 enols  
 NT2 erythritol  
 NT2 ethanol  
 NT2 glycerol  
 NT2 glycols  
 NT3 butanediols  
 NT3 cellosolves  
 NT3 egta  
 NT3 pinacol  
 NT3 polyethylene glycols  
 NT4 carbowax  
 NT4 pluronics  
 NT2 hexanols  
 NT2 methanol  
 NT2 metronidazole  
 NT2 misonidazole  
 NT2 octanols  
 NT2 pentanols  
 NT2 propanols  
 NT2 pva  
 NT1 alizarin  
 NT1 androsterone  
 NT1 bph  
 NT1 carminic acid  
 NT1 chromotropic acid

NT1 corticosteroids  
 NT2 glucocorticoids  
 NT3 corticosterone  
 NT3 cortisone  
 NT3 dexamethasone  
 NT3 hydrocortisone  
 NT3 prednisolone  
 NT3 prednisone  
 NT2 mineralocorticoids  
 NT3 aldosterone  
 NT1 cupferron  
 NT1 ephedrine  
 NT1 estradiol  
 NT1 estriol  
 NT1 estrone  
 NT1 ferron  
 NT1 folic acid  
 NT1 guanine  
 NT1 hydroxamic acids  
 NT2 benzohydroxamic acid  
 NT1 hydroxyandrostene  
 NT1 hydroxypregnenone  
 NT1 hydroxyurea  
 NT1 hypoxanthine  
 NT1 melanin  
 NT1 oximes  
 NT2 benzoinoxime  
 NT2 dimethylglyoxime  
 NT1 oxine  
 NT1 phenols  
 NT2 cresols  
 NT2 dinitrophenol  
 NT2 eriochrome dyes  
 NT2 hydroxypropiophenone  
 NT2 naphthols  
 NT3 1-nitroso-2-naphthol  
 NT3 nitroso-r salt  
 NT3 pyridylazonaphthol  
 NT3 thorin  
 NT3 trypan blue  
 NT2 nitrophenol  
 NT2 phenol  
 NT2 phenolphthalein  
 NT2 picric acid  
 NT2 polyphenols  
 NT3 arsenazo  
 NT3 bromosulfophthalein  
 NT3 catecholamines  
 NT3 curcumin  
 NT3 dopamine  
 NT3 fluorescein  
 NT4 erythrosine  
 NT3 hematoxylin  
 NT3 morin  
 NT3 pyridylazoresorcinol  
 NT3 pyrocatechol  
 NT3 pyrogallol  
 NT3 quercetin  
 NT3 resorcinol  
 NT3 stilbestrol  
 NT3 tannic acid  
 NT3 tiron  
 NT2 thymol  
 NT2 tyramine  
 NT2 xlenols  
 NT1 pyridoxine  
 NT1 quinizarin  
 NT1 rhodizonic acid  
 NT1 serotonin  
 NT2 bufotenine  
 NT1 sterols  
 NT2 bile acids  
 NT3 cholic acid  
 NT2 cholesterol  
 NT2 ergosterol  
 NT2 sitosterol  
 NT1 testosterone  
 NT1 thiamine  
 NT1 uracils

NT2 bromouracils  
 NT3 budr  
 NT2 chlorouracils  
 NT2 deoxyuridine  
 NT2 fluorouracil  
 NT3 fudr  
 NT2 iodouracils  
 NT3 iododeoxyuridine  
 NT2 orotic acid  
 NT2 thiouracil  
 NT2 thymine  
 NT2 uridine  
 RT hydroxy acids  
 RT hydroxylation  
 RT inositols

**hydroxy-para-cymene**

USE thymol

**hydroxyacetic acid**

USE glycolic acid

**HYDROXYANDROSTENONE**

UF dehydroepiandrosterone

\*BT1 androgens

\*BT1 hydroxy compounds

\*BT1 ketones

**hydroxybenzene**

USE phenol

**hydroxybenzoic acid-ortho**

USE salicylic acid

**hydroxydiphenylacetic acid**

USE benzilic acid

**hydroxyethylethylenediaminetriacetic acid**

Hydroxyethylethylenediaminetriacetic acid.

USE hedta

**hydroxyethyliminodiacetic acid**

USE heida

**hydroxyl ions**

USE anions

USE hydroxides

**HYDROXYL RADICALS**

BT1 radicals

RT hydroxides

RT oxygen compounds

**HYDROXYLAMINE**

\*BT1 amines

RT oximes

**hydroxylase**

2000-04-12

(Prior to January 1981 this was a valid ETDE descriptor.)

USE hydroxylases

**HYDROXYLASES**

INIS: 1982-02-10; ETDE: 1981-01-12

(Prior to February 1982 HYDROXYLASE was a valid term, and older information is so indexed.)

UF hydroxylase

\*BT1 oxidoreductases

NT1 tyrosinase

**HYDROXYLATION**

INIS: 1977-07-05; ETDE: 1976-12-16

BT1 chemical reactions

RT hydroxides

RT hydroxy compounds

**hydroxynaphthalenes**

USE naphthols

**HYDROXYPREGNENONE**

*UF* pregnenolone  
 \*BT1 hydroxy compounds  
 \*BT1 ketones  
 \*BT1 pregnanes  
*RT* progesterone

**HYDROXYPROLINE**

\*BT1 amino acids  
 \*BT1 heterocyclic acids  
 \*BT1 hydroxy acids  
 \*BT1 pyrrolidines  
*RT* collagen  
*RT* proline

**hydroxypropionic acid-alpha**

*USE* lactic acid

**HYDROXYPROPIOPHENONE**

*ETDE*: 2005-02-01  
 (Prior to January 2005 POP was used for this concept.)  
*UF* paroxypropione  
*UF* pop (paroxypropione)  
 \*BT1 ketones  
 \*BT1 phenols

**hydroxysuccinic acid**

*USE* malic acid

**hydroxytoluenes**

*USE* cresols

**HYDROXYTRYPTOPHAN**

\*BT1 amino acids  
 \*BT1 hydroxy acids  
 \*BT1 radioprotective substances  
*RT* tryptophan

**HYDROXYUREA**

*INIS*: 2000-04-12; *ETDE*: 1976-03-11  
 \*BT1 amides  
 \*BT1 hydroxy compounds

**hydroxyxylenes**

2000-04-12  
*USE* xylenols

**hyflex process**

*INIS*: 2000-04-12; *ETDE*: 1981-07-06  
*In the HYFLEX process carbonaceous raw materials are concurrently heated with hydrogen or another gas in an entrained-flow reactor to pyrolysis temperatures, which produces a slate of products that can be varied by choosing different operating pressures and cracking severities.*  
 (Prior to July 1993, this was a valid *ETDE* descriptor.)  
*USE* coal gasification

**HYGAS PROCESS**

2000-04-12  
*Institute of Gas Technology hydrogasification process for producing high-btu gas by slurring the coal with light oil and using a three-stage gasifier.*  
*UF* igt hydrogasification process  
 \*BT1 coal gasification  
 BT1 sng processes  
*RT* high btu gas

**HYGROMETRY**

(From November 1981 till March 1997 PSYCHROMETRY was a valid *ETDE* descriptor.)  
*UF* psychrometry  
*RT* humidity  
*RT* moisture gages

**HYGROSCOPICITY**

*RT* adsorption

**HYLEMYA ANTIQUA**

\*BT1 flies  
*RT* onions

**HYLIFE CONVERTER**

*INIS*: 1979-09-18; *ETDE*: 1979-01-30  
*High Yield Lithium Injection Fusion Energy Converter.*  
 \*BT1 laser fusion reactors

**HYLLERAAS COORDINATES**

BT1 coordinates  
*RT* quantum mechanics

**hylleraas-scherr-knight procedure**

1993-11-08  
*USE* hsk procedure

**hymenolepis**

1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
*USE* cestodes

**HYMENOPTERA**

*INIS*: 1993-07-12; *ETDE*: 1981-06-16  
 \*BT1 insects  
 NT1 ants  
 NT1 bees  
 NT1 wasps

**hyoscyamine**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
*USE* alkaloids

**hypaque**

1996-10-23  
 (Until October 1996 this was a valid descriptor.)  
*USE* amides  
*USE* organic iodine compounds  
*USE* sodium compounds

**HYPERBOLIC CONFIGURATION**

2004-09-09  
 BT1 configuration

**HYPERCHARGE**

BT1 particle properties  
*RT* charm particles  
*RT* gauge invariance

**HYPERCUBE COMPUTERS**

*INIS*: 1991-10-01; *ETDE*: 1987-10-22  
*Computer architecture in which each processor has its own memory and is connected to a number of other processors.*  
 BT1 computers  
*RT* array processors  
*RT* supercomputers

**HYPERFINE STRUCTURE**

*UF* hfs  
*RT* spectra

**hyperfragments**

*USE* hypernuclei

**HYPERGEOMETRIC FUNCTIONS**

BT1 functions

**HYPERGLYCEMIA**

*RT* saccharides

**HYPERNUCLEI**

*UF* hyperfragments  
 BT1 nuclear fragments  
 BT1 nuclei  
*RT* hyperons

**HYPERON BEAMS**

1996-07-18  
 (Prior to March 1997 OMEGA PARTICLE BEAMS was a valid *ETDE* descriptor; prior to August 1996 XI PARTICLE BEAMS was a valid *ETDE* descriptor.)  
*UF* omega particle beams  
*UF* xi particle beams  
 \*BT1 particle beams  
 NT1 lambda particle beams  
 NT1 sigma particle beams

**HYPERON-HYPERON INTERACTIONS**

\*BT1 baryon-baryon interactions

**HYPERON REACTIONS**

\*BT1 baryon reactions

**HYPERONS**

*UF* strange baryons  
 \*BT1 baryons  
 \*BT1 strange particles  
 NT1 antihyperons  
 NT2 antilambda particles  
 NT2 antiomega particles  
 NT2 antisigma particles  
 NT2 antixi particles  
 NT1 lambda baryons  
 NT2 lambda-1405 baryons  
 NT2 lambda-1520 baryons  
 NT2 lambda-1600 baryons  
 NT2 lambda-1670 baryons  
 NT2 lambda-1690 baryons  
 NT2 lambda-1800 baryons  
 NT2 lambda-1810 baryons  
 NT2 lambda-1820 baryons  
 NT2 lambda-1830 baryons  
 NT2 lambda-1890 baryons  
 NT2 lambda-2100 baryons  
 NT2 lambda-2110 baryons  
 NT2 lambda particles  
 NT3 antilambda particles  
 NT1 lambda-n-2130 dibaryons  
 NT1 omega baryons  
 NT2 omega-2250 baryons  
 NT2 omega particles  
 NT3 antiomega particles  
 NT3 omega minus particles  
 NT1 sigma baryons  
 NT2 sigma-1385 baryons  
 NT2 sigma-1660 baryons  
 NT2 sigma-1670 baryons  
 NT2 sigma-1750 baryons  
 NT2 sigma-1770 baryons  
 NT2 sigma-1775 baryons  
 NT2 sigma-1915 baryons  
 NT2 sigma-1940 baryons  
 NT2 sigma-2030 baryons  
 NT2 sigma-2455 baryons  
 NT2 sigma particles  
 NT3 antisigma particles  
 NT3 sigma minus particles  
 NT3 sigma neutral particles  
 NT3 sigma plus particles  
 NT1 xi baryons  
 NT2 xi-1530 baryons  
 NT2 xi-1690 baryons  
 NT2 xi-1820 baryons  
 NT2 xi-1950 baryons  
 NT2 xi-2030 baryons  
 NT2 xi-2250 baryons  
 NT2 xi-2500 baryons  
 NT2 xi particles  
 NT3 antixi particles  
 NT3 xi minus particles  
 NT3 xi neutral particles  
 NT1 z\*baryons  
*RT* hypernuclei



**HYPERPARATHYROIDISM**

1984-12-04

- \*BT1 endocrine diseases
- RT bone tissues
- RT calcium
- RT parathyroid glands

**HYPERSONIC FLOW**

- BT1 fluid flow

**HYPERTENSION**

- \*BT1 cardiovascular diseases
- BT1 symptoms
- \*BT1 vascular diseases
- RT antihypertensive agents
- RT biological stress
- RT blood pressure

**HYPERTHERMIA**

INIS: 1981-08-18; ETDE: 1976-07-07

- BT1 body temperature
- RT fever
- RT heat stress
- RT hypothermia

**HYPERTHYROIDISM**

- UF basedow's disease
- UF thyrotoxicosis
- \*BT1 endocrine diseases
- RT antithyroid drugs
- RT goiter
- RT pbi
- RT thyroid hormones

**HYPERTONIC SOLUTIONS**

- \*BT1 solutions
- RT isotonic solutions
- RT osmosis

**HYPERTROPHY**

- BT1 pathological changes

**HYPNOTICS AND SEDATIVES**

- UF sedatives
- \*BT1 central nervous system depressants
- NT1 barbiturates
  - NT2 nembutal
  - NT2 phenobarbital
- NT1 chlorpromazine
- NT1 codeine
- NT1 reserpine
- RT analgesics
- RT anesthetics
- RT narcotics
- RT sleep
- RT tranquilizers

**HYPOCENTERS**

INIS: 2000-04-12; ETDE: 1978-10-25

*Subterranean sources of earthquakes; also, centers of subterranean areas in which the energy of earthquakes is supposed to be concentrated.*

- RT earthquakes

**HYPOCHLOROUS ACID**

- \*BT1 chlorine compounds
- \*BT1 inorganic acids
- BT1 oxygen compounds

**HYPOFLUOROUS ACID**

INIS: 1994-03-15; ETDE: 1977-12-22

- \*BT1 fluorine compounds
- \*BT1 inorganic acids
- BT1 oxygen compounds

**HYPOIODOUS ACID**

INIS: 1980-12-01; ETDE: 1981-01-09

- \*BT1 inorganic acids
- \*BT1 iodine compounds
- BT1 oxygen compounds

**hypophosphites**

*Specific hypophosphites should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and HYPOPHOSPHOROUS ACID.*

- USE hypophosphorous acid

**HYPOPHOSPHOROUS ACID**

- UF hypophosphites
- \*BT1 inorganic acids
- BT1 oxygen compounds
- BT1 phosphorus compounds

**HYPOPHYSECTOMY**

- \*BT1 surgery
- RT hypothalamus
- RT pituitary gland
- RT pituitary hormones

**hypophysis**

- USE pituitary gland

**HYPOTENSION**

- RT biological stress
- RT blood pressure

**HYPOTHALAMUS**

- \*BT1 brain
- RT autonomic nervous system
- RT endocrine glands
- RT homeostasis
- RT hypophysectomy
- RT metabolism
- RT pituitary gland
- RT trh

**HYPOTHERMIA**

- BT1 body temperature
- RT hibernation
- RT hyperthermia

**HYPOTHESIS**

- NT1 ergodic hypothesis
- NT1 limiting fragmentation
- NT1 mach principle
- NT1 negative mass
- RT comparative evaluations
- RT functional models
- RT hypothetical accidents
- RT mathematical models
- RT structural models

**HYPOTHETICAL ACCIDENTS**

2006-06-27

*For possible accidents which have not actually occurred. Coordinate with descriptor(s) for the specific accident, e.g. LOSS OF FLOW, OIL SPILLS, if appropriate.*

- BT1 accidents
- RT hypothesis
- RT reactor accident simulation

**HYPOTHYROIDISM**

- UF myxedema
- \*BT1 endocrine diseases
- RT antithyroid drugs
- RT goiter
- RT pbi
- RT thyroid hormones

**HYPOXANTHINE**

- \*BT1 hydroxy compounds
- \*BT1 purines
- RT inosine
- RT nucleotides
- RT xanthines

**HYPOXANTHINE****PHOSPHORIBOSYLTRANSFERASE**

INIS: 2000-04-12; ETDE: 1981-06-13

- UF hypoxanthine guanine phosphoribosyltransferase

- \*BT1 pentosyl transferases

**hypoxanthine guanine phosphoribosyltransferase**

INIS: 2000-04-12; ETDE: 1981-06-13

- USE hypoxanthine phosphoribosyltransferase

**hypoxia**

- USE anoxia

**HYSTERESIS**

- RT damping
- RT energy losses
- RT internal friction
- RT tolerance

**HYTORT PROCESS**

INIS: 2000-04-12; ETDE: 1979-08-07

*Direct, non-catalytic hydrogenation of kerogen at high pressures and controlled heat-up rates; developed by IGT.*

- RT black shales
- RT retorting

**HZ RANGE**

- BT1 frequency range

**i-beam type reactors**

INIS: 1982-11-30; ETDE: 1976-09-15

- USE ion beam fusion reactors

**I CENTERS**

*Interstitial halogen-ion centers.*

- \*BT1 color centers
- \*BT1 interstitials

**I CODES**

- BT1 computer codes

**I G PROCESS**

2000-04-12

- \*BT1 coal gasification

**i-inositol**

- USE inositol

**i-v characteristic**

INIS: 1984-01-18; ETDE: 2002-06-13

- USE electric conductivity

**IAEA**

- UF international atomic energy agency
- BT1 international organizations
- NT1 ictp
- NT1 monaco marine environment laboratory
- NT1 seibersdorf iaea laboratory
- RT austria
- RT canare
- RT cenna
- RT cscnd
- RT iaea agreements
- RT iaea safeguards
- RT inis
- RT international convention on nuclear safety
- RT recommendations
- RT united nations

**IAEA AGREEMENTS**

- \*BT1 international agreements
- RT iaea
- RT legal aspects

**iaea marine environment laboratory, monaco**

INIS: 2004-06-11; ETDE: 2004-07-08

- USE monaco marine environment laboratory

**IAEA SAFEGUARDS**

- BT1 safeguards

RT iaea

### iaea seibersdorf laboratory

INIS: 1988-04-15; ETDE: 2002-06-13

USE seibersdorf iaea laboratory

### IAN

INIS: 1987-05-26; ETDE: 1987-06-09

Instituto de Asuntos Nucleares, Bogota.

\*BT1 colombian organizations

### IAN-RI REACTOR

Institute of Nuclear Affairs, Bogota, Colombia.

UF instituto de asuntos nucleares r1

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

### IANTHINITE

2000-07-24

\*BT1 oxide minerals

\*BT1 uranium minerals

RT uranium oxides

### IBM COMPUTERS

BT1 computers

### ibr-1 reactor

1984-06-21

USE ifr reactor

### IBR-2 REACTOR

1978-01-13

UF dubna ibr-2 reactor

UF dubna pulsed reactor

\*BT1 fast reactors

\*BT1 pulsed reactors

\*BT1 research reactors

### IBR-30 REACTOR

Dubna, Russian Federation.

\*BT1 fast reactors

\*BT1 pulsed reactors

\*BT1 research reactors

### ICE

NT1 frost

NT1 ice caps

NT1 icebergs

RT antarctic regions

RT arctic regions

RT cryosphere

RT defrosting

RT glaciers

RT hail

RT slush

RT snow

RT water

### ICE CAPS

INIS: 1992-01-16; ETDE: 1986-07-25

Perennial cover of ice and snow on a land mass.

BT1 ice

RT antarctic regions

RT arctic regions

RT cryosphere

RT glaciers

RT icebergs

RT mountains

### ICE CONDENSERS

1977-01-25

A steam condenser using ice as the heat sink. Incorporated for example in the containment systems of McGuire, Watts Bar and other reactors.

UF condensers (using ice)

\*BT1 steam condensers

RT containment systems

RT cooling

RT reactor cooling systems

### ICEBERGS

INIS: 1992-07-21; ETDE: 1979-08-07

BT1 ice

RT cryosphere

RT ice caps

### icebreaker arktika reactor

INIS: 1984-08-27; ETDE: 1994-09-12

USE leonid brezhnev reactor

### icebreaker lenin reactor

USE lenin reactor

### icebreaker leonid brezhnev reactor

INIS: 1993-11-08; ETDE: 1994-09-12

USE leonid brezhnev reactor

### icebreaker sibir reactor

INIS: 1985-09-09; ETDE: 2002-06-13

USE sibir reactor

### ICELAND

1997-06-17

BT1 developing countries

BT1 islands

\*BT1 western europe

RT atlantic ocean

RT krafla geothermal field

RT namafjall geothermal field

RT oecd

### ices

INIS: 2000-04-12; ETDE: 1992-02-10

(Prior to February 1992, this was a valid ETDE descriptor.)

USE ices program

### ICES PROGRAM

INIS: 2000-04-12; ETDE: 1977-06-30

Program to develop community-scale energy systems, integrating community design planning and energy technology concepts.

(Prior to February 1992, this subject was indexed by ICES.)

UF ices

UF integrated community energy systems

BT1 energy systems

NT1 thermal transmission ices

RT communities

RT energy facilities

RT heating

RT integrated energy utility systems

RT modular integrated utility systems

RT total energy systems

### ICF DEVICES

INIS: 1997-06-05; ETDE: 1984-10-24

UF inertial confinement fusion devices

BT1 thermonuclear devices

NT1 angara-5 device

RT aurora facility

RT cascade reactors

RT diode-pumped solid state lasers

RT electron beam fusion reactors

RT inertial confinement

RT ion beam fusion reactors

RT laser fusion reactors

RT us national ignition facility

### icf targets

INIS: 1999-07-26; ETDE: 2002-06-13

SEE electron beam targets

SEE ion beam targets

SEE laser targets

### ICHTHAMMOL

2000-04-12

A brownish black viscous liquid prepared from a distillate of bituminous schists by sulfonation followed by neutralization with ammonia. It is used as an antiseptic and emollient.

UF ichthyol

RT oil shales

RT shale oil

### ichthyol

2000-04-12

USE ichtammol

### ICHTHYOPLANKTON

INIS: 1993-06-02; ETDE: 1979-03-28

The microscopic free-floating eggs and larvae of fish.

\*BT1 plankton

RT anadromous fishes

RT eggs

RT fathead minnow

RT fishes

RT larvae

### ici process

2000-04-12

Process for removing fly ash and sulfur dioxide from flue gases. It is a development of the boliden process and involves recovery of sulfur as liquefied sulfur dioxide or free sulfur. (Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

### ICL COMPUTERS

BT1 computers

### icns (international convention on nuclear safety)

INIS: 1999-12-23; ETDE: 2005-01-28

(Prior to January 2005 ICNS was a valid descriptor.)

USE international convention on nuclear safety

### iconoscopes

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE camera tubes

### ICP MASS SPECTROSCOPY

INIS: 1993-10-01; ETDE: 1993-11-08

Inductively Coupled Plasma mass spectroscopy.

\*BT1 mass spectroscopy

RT chemical analysis

RT mass spectra

RT mass spectrometers

RT resonance ionization mass spectroscopy

### icr

INIS: 1983-12-01; ETDE: 1984-01-27

USE ion cyclotron-resonance

### ICR HEATING

UF ion cyclotron-resonance heating

\*BT1 high-frequency heating

RT cyclotron radiation

RT ion cyclotron-resonance

### ICRP

UF international commission radiological protection

BT1 international organizations

RT alara

RT cuex

RT icru

RT radiation protection

RT recommendations  
RT reference man

**ICRP CRITICAL GROUP**

*Out of a general population, the group of persons most highly exposed to radiation by virtue of their occupations, diets, habits, etc.*

UF critical group (icrp)  
RT body burden  
RT diet  
RT human populations  
RT occupational exposure  
RT occupations  
RT radiation doses  
RT radiation hazards  
RT working conditions

**ICRU**

UF international commission on radiation units and measurements  
BT1 international organizations  
RT dosimetry  
RT icrp  
RT radiation dose units  
RT recommendations

**icsd**

INIS: 1984-04-04; ETDE: 2002-06-13  
*Ionization chamber smoke detectors.*  
USE smoke detectors

**ICTP**

1979-11-02  
*International Centre for Theoretical Physics, Trieste.*  
UF international center for theoretical physics  
\*BT1 iaea

**IDAHO**

1997-06-19  
\*BT1 usa  
RT columbia river basin  
RT raft river valley  
RT snake river plain  
RT western us overthrust belt  
RT yellowstone national park

**idaho advanced test reactor**

USE atr reactor

**IDAHO CHEMICAL PROCESSING PLANT**

\*BT1 fuel reprocessing plants  
\*BT1 us aec  
\*BT1 us doe  
\*BT1 us erda

**idaho materials testing reactor**

USE mtr reactor

**idaho national engineering and environmental laboratory**

2005-05-18  
USE ineel

**idaho national engineering laboratory**

INIS: 1976-05-07; ETDE: 1975-12-16  
*Until 1976 known as NRTS and older material is so indexed.*  
USE ineel

**IDEAL FLOW**

1986-03-04  
UF frictionless flow  
UF inviscid flow  
UF nonviscous flow  
\*BT1 incompressible flow  
\*BT1 steady flow  
RT laminar flow

**IDENTIFICATION SYSTEMS**

INIS: 1985-12-10; ETDE: 1980-05-06  
*For persons or objects. Not for systems for PARTICLE IDENTIFICATION.*

RT control systems  
RT data acquisition systems  
RT entry control systems  
RT nuclear materials management  
RT pattern recognition  
RT physical protection devices  
RT safeguards  
RT secrecy protection  
RT security

**iea**

INIS: 1977-04-07; ETDE: 1976-05-17  
USE international energy agency

**IEA-ZPR REACTOR**

*Instituto de Energia Atomica, Sao Paulo, Brazil.*  
UF instituto de energia atomica zpr  
UF sao paulo iea zero power reactor  
\*BT1 graphite moderated reactors  
\*BT1 helium cooled reactors  
\*BT1 research reactors  
\*BT1 zero power reactors  
RT enriched uranium reactors  
RT thorium reactors

**IEAR-1 REACTOR**

*Instituto de Energia Atomica, Sao Paulo, Brazil.*  
UF instituto de energia atomica r1  
UF sao paulo iear-1 reactor  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**iec (international electrotechnical commission)**

2004-09-14  
USE international electrotechnical commission

**ieus (integrated energy utility systems)**

INIS: 2000-04-12; ETDE: 2005-01-28  
*(Prior to January 2005 IEUS was a valid descriptor.)*  
USE integrated energy utility systems

**IFIEC**

INIS: 1991-12-11; ETDE: 1992-01-08  
*International Federation of Industrial Energy Consumers.*

UF international federation of industrial energy consumers  
BT1 international organizations  
RT industry  
RT international cooperation

**IFIP**

UF international food irradiation project  
\*BT1 coordinated research programs  
RT food  
RT irradiation procedures  
RT preservation  
RT radappertization  
RT radacidation  
RT radurization

**ifp process**

2000-04-12  
*Process for removal of hydrogen sulfide and sulfur dioxide from Claus unit tail gas to an sulfur dioxide level of 1, 500 to 2, 000 ppm (ifp-1) or 500 ppm or below (ifp-2) and stack*

*gas clean-up to take sulfur dioxide down to or below 500 ppm (ifp-2).*

*(Prior to March 1994, this was a valid ETDE descriptor.)*

USE desulfurization

**IFR REACTOR**

UF ibr-1 reactor  
\*BT1 fast reactors  
\*BT1 zero power reactors

**ifve**

INIS: 1984-06-21; ETDE: 2002-06-13  
*Inst. Fiziki Vysokikh Ehnergij.*  
USE ihep

**IGCAR**

INIS: 1989-02-24; ETDE: 1989-03-20  
*Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu, India.*  
UF kalpakkam reactor research center  
UF rrc, kalpakkam  
\*BT1 indian organizations

**IGNALINA-1 REACTOR**

INIS: 1997-09-16; ETDE: 1996-02-12  
*(Until February 1996 this descriptor was spelled IGNALINSK-1 REACTOR.)*

UF ignalinsk-1 reactor  
UF rbmk-1500 reactor  
\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**IGNALINA-2 REACTOR**

INIS: 1997-09-16; ETDE: 1996-02-12  
*(Until February 1996 this descriptor was spelled IGNALINSK-2 REACTOR.)*

UF ignalinsk-2 reactor  
\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**ignalinsk-1 reactor**

INIS: 1997-01-28; ETDE: 1984-09-20  
*(Until February 1996 this was a valid descriptor.)*

USE ignalina-1 reactor

**ignalinsk-2 reactor**

INIS: 1997-01-28; ETDE: 1984-09-20  
*(Until February 1996 this was a valid descriptor.)*

USE ignalina-2 reactor

**IGNEOUS ROCKS**

UF crystalline rocks  
BT1 rocks  
NT1 lava  
NT1 plutonic rocks  
NT2 diorites  
NT2 gabbros  
NT3 anorthosites  
NT2 granites  
NT3 aplites  
NT3 granodiorites  
NT3 quartz monzonite  
NT2 pegmatites  
NT2 peridotites  
NT3 kimberlites  
NT2 syenites  
NT1 volcanic rocks  
NT2 andesites  
NT2 basalt  
NT3 diabases  
NT2 lamprophyres  
NT3 kimberlites  
NT2 nepheline basalts  
NT2 perlite

NT2 rhyolites  
 NT2 trachytes  
 NT2 tuff  
 RT basement rock  
 RT magma  
 RT magmatism

**IGNITION**

INIS: 1992-09-07; ETDE: 1975-08-19

NT1 autoignition  
 RT combustion  
 RT combustion waves  
 RT detonation waves  
 RT flames  
 RT flammability  
 RT ignition systems

**ignition (thermonuclear)**

USE thermonuclear ignition

**IGNITION QUALITY**

2000-04-12

RT antiknock ratings  
 RT combustion

**IGNITION SPHERICAL TORUS**

INIS: 1999-03-02; ETDE: 1987-04-08

*Small aspect ratio device retaining only indispensable components along the major axis of a tokamak plasma, such as a cooled, normal conductor producing a toroidal magnetic field.*

\*BT1 tokamak devices  
 RT compact torus

**IGNITION SYSTEMS**

INIS: 1984-07-20; ETDE: 1976-05-17

*Not for THERMONUCLEAR IGNITION.*

RT automobiles  
 RT combustion  
 RT combustors  
 RT ignition  
 RT internal combustion engines

**IGNITRONS**

\*BT1 gas discharge tubes  
 \*BT1 rectifier tubes

**IGR REACTOR**

INIS: 2003-11-26; ETDE: 2003-12-03

*National Nuclear Center of the Republic of Kazakhstan, Kurchatov city, East Kazakhstan.*

UF experimental graphite reactor  
 UF impulse graphite reactor  
 UF kazakhstan igr reactor  
 UF pulsed graphite reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 materials testing reactors  
 \*BT1 pulsed reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**igt biothermal gasification**

INIS: 2000-04-12; ETDE: 1981-12-14

USE biothermegas process

**igt dehydrodesulfurization process**

INIS: 2000-04-12; ETDE: 1980-09-04

*Fine crushed coal is first treated in a fluidized bed reactor with air at 400 C and then with hydrogen at 800 C; atmospheric pressure in both reactors.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**igt hydrogasification process**

2000-04-12

USE hygas process

**igt waste process**

INIS: 2000-04-12; ETDE: 1975-10-28

USE biogas process

**igy**

USE international geophysical year

**IHEP**

INIS: 1975-10-09; ETDE: 1975-12-16

*Institute for High Energy Physics, Serpukhov, Russian Federation.*

UF ifve  
 UF inst fiziki vysokikh ehnergij  
 UF institute for high energy physics  
 \*BT1 russian organizations  
 RT serpukhov synchrotron

**iisnr reactor**

USE thetis reactor

**IKATA-2 REACTOR**

INIS: 1985-11-16; ETDE: 1985-12-11

*Shikoku Electric Power Co., Ikata, Ehime, Japan.*

\*BT1 pwr type reactors

**IKATA-3 REACTOR**

INIS: 1989-10-27; ETDE: 1989-11-21

*Shikoku Electric Power Co., Ikata, Ehime, Japan.*

\*BT1 pwr type reactors

**IKATA REACTOR**

*Shikoku Electric Power Co., Ikata, Ehime, Japan.*

\*BT1 pwr type reactors

**IKO**

INIS: 1978-07-31; ETDE: 1978-09-11

UF inst v kernph onder amsterdam  
 UF nuclear physics research institute amsterdam  
 \*BT1 netherlands organizations

**IKO SYNCHROCYCLOTRON**

*IKO - Nuclear Physics Research Institute, Amsterdam.*

\*BT1 synchrocyclotrons

**ileum**

USE small intestine

**illiac computers**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE computers

**illinium**

USE promethium

**ILLINOIS**

1995-01-27

\*BT1 usa  
 NT1 chicago  
 RT anl  
 RT chattanooga formation  
 RT fermilab  
 RT illinois basin  
 RT mississippi river  
 RT ohio river

**ILLINOIS BASIN**

INIS: 1992-06-12; ETDE: 1980-07-09

*The geographic area that includes all of the coal reserves of Illinois, Indiana, and the western part of Kentucky.*

RT coal deposits  
 RT illinois  
 RT indiana

RT kentucky

**illinois university triga-mk-2 reactor**

INIS: 1993-11-08; ETDE: 2002-06-13

USE triga-2-illinois reactor

**ILLITE**

*A general term for the clay-mineral constituent of argillaceous sediments belonging to the mica group.*

\*BT1 clays

**ILLIUM**

2000-04-12

\*BT1 chromium alloys  
 \*BT1 copper alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys

**ILLUMINANCE**

INIS: 1986-07-09; ETDE: 1981-10-24

*Density of luminous flux on a surface.*

UF illumination  
 UF luminous flux density  
 RT albedo  
 RT brightness  
 RT daylighting  
 RT lighting requirements  
 RT lighting systems  
 RT optics

**illumination**

INIS: 1986-07-09; ETDE: 1981-10-24

USE illuminance

**illumination systems**

2000-04-12

USE lighting systems

**ILMENITE**

*An iron-black, opaque, rhombohedral mineral.*

\*BT1 oxide minerals  
 RT iron oxides  
 RT titanium oxides

**ilmr**

INIS: 1987-03-24; ETDE: 1987-11-24

*International Laboratory of Marine Radioactivity, Monaco.*

(Prior to June 2004 this was a valid descriptor.)

USE monaco marine environment laboratory

**ILO**

UF international labour organisation  
 BT1 international organizations  
 RT united nations  
 RT work

**ILVAITE**

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 silicate minerals  
 RT calcium silicates  
 RT iron silicates

**IMAGE CONVERTERS**

UF converters (image)  
 BT1 image tubes  
 RT image intensifiers  
 RT image processing

**IMAGE INTENSIFIERS**

UF intensifiers (image)  
 RT fluoroscopy  
 RT image converters  
 RT image processing  
 RT radiation protection

**IMAGE PROCESSING**

INIS: 2000-02-01; ETDE: 1977-06-02

Procedure for restoring or enhancing images, often by computer.

- UF processing (images)
- BT1 processing
- RT cat scanning
- RT computerized tomography
- RT data processing
- RT digital filters
- RT ecat scanning
- RT image converters
- RT image intensifiers
- RT image scanners
- RT images
- RT photocopying
- RT photography
- RT radioisotope scanners
- RT video tapes

**IMAGE SCANNERS**

- UF optical scanners
- UF scanners (image)
- UF scanners (optical)
- RT computerized tomography
- RT data processing
- RT digitizers
- RT electronic equipment
- RT image processing
- RT particle tracks
- RT pattern recognition
- RT photographic films
- RT photon computed tomography
- RT proton computed tomography
- RT radioisotope scanners
- RT sequential scanning

**IMAGE STORAGE TUBES**

- UF storage tubes
- BT1 image tubes

**IMAGE TUBES**

- NT1 camera tubes
- NT2 vidicons
- NT1 image converters
- NT1 image storage tubes
- RT cathode ray tubes
- RT display devices
- RT electron tubes
- RT images
- RT pattern recognition
- RT photoelectric cells

**IMAGES**

- UF autoradiographs
- UF photographs
- UF radiographs
- RT display devices
- RT image processing
- RT image tubes
- RT nuclear emulsions
- RT pattern recognition
- RT photographic films
- RT radioisotope scanners
- RT scintiscanning
- RT video tapes

**imatran voima-1 reactor**

INIS: 1976-08-13; ETDE: 2000-02-10

USE loviisa-1 reactor

**imatran voima-2 reactor**

INIS: 1976-08-13; ETDE: 2000-02-10

USE loviisa-2 reactor

**imatran voima power reactor**

INIS: 2000-04-12; ETDE: 2002-06-13

USE loviisa-1 reactor

**imco**

International Maritime Consultative Organization.

(Prior to July 2001, this was a valid descriptor.)

USE imo

**IMIDAZOLES**

1996-10-22

Compounds that contain a five-membered heterocyclic ring containing nitrogen atoms in the 1 and 3 positions.

- UF cmi
- UF parabanic acid
- \*BT1 azoles
- NT1 allantoin
- NT1 benzimidazoles
- NT1 biotin
- NT1 creatinine
- NT1 histamine
- NT1 histidine
- NT1 hydantoins
- NT1 metronidazole
- NT1 misonidazole
- NT1 urocanic acid

**IMIDES**

- \*BT1 organic nitrogen compounds
- NT1 nem
- RT dicarboxylic acids

**imidines**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE organic nitrogen compounds

**IMINES**

1996-01-24

For aldehyde and ketone derivatives only, i.e., for compounds containing the =N- group; for those containing the -NH- group, see ORGANIC NITROGEN COMPOUNDS or appropriate specific descriptors listed thereunder.

- \*BT1 organic nitrogen compounds
- NT1 creatinine
- NT1 schiff bases
- RT aldehydes
- RT guanidines
- RT ketones

**iminoamides**

USE amidines

**iminourea**

USE guanidines

**IMIPRAMINE**

- \*BT1 amines
- \*BT1 antidepressants
- \*BT1 heterocyclic compounds
- \*BT1 organic nitrogen compounds

**immediate radiation effects**

USE early radiation effects

**immobilization (wastes)**

INIS: 1990-12-06; ETDE: 1983-11-09

(Prior to December 1990, this was a valid descriptor.)

- SEE solidification
- SEE vitrification

**IMMOBILIZED CELLS**

INIS: 1999-03-01; ETDE: 1980-09-22

Microbial cells which have been entrained on gels.

- SF cells (immobilized)
- RT biotechnology
- RT immobilized enzymes
- RT microorganisms

**IMMOBILIZED ENZYMES**

INIS: 2000-04-12; ETDE: 1980-01-24

Stable, reusable enzymes obtained by immobilizing naturally occurring enzymes onto solid supports by means of various chemical techniques.

- RT enzymes
- RT immobilized cells

**IMMUNE REACTIONS**

Limited to immune reactions to foreign antigens in vivo.

- RT aids virus
- RT antigen-antibody reactions
- RT immunity
- RT phagocytosis
- RT toxoids

**immune sera**

USE immune serums

**IMMUNE SERUMS**

- UF antiserum
- UF immune sera
- UF serum (immune)
- RT antibodies
- RT blood serum
- RT inoculation

**IMMUNE SYSTEM DISEASES**

INIS: 1991-07-02; ETDE: 1988-06-27

- BT1 diseases
- NT1 aids
- NT1 leukemia
- NT2 myeloid leukemia
- NT1 leukopenia
- NT2 lymphopenia
- NT1 lupus
- NT1 lymphomas
- NT2 hodgkins disease
- NT2 lymphosarcomas
- RT allergy
- RT asthma
- RT complement
- RT histocompatibility complex
- RT leukopoiesis
- RT lymph nodes
- RT lymphocytes
- RT reticuloendothelial system
- RT spleen
- RT thymus

**immune tolerance**

USE immunity

**IMMUNITY**

1996-07-23

- UF c-reactive protein
- UF compatibility (immunological)
- UF immune tolerance
- RT aids
- RT aids virus
- RT allergy
- RT anaphylaxis
- RT antibodies
- RT antibody formation
- RT antigen-antibody reactions
- RT antigens
- RT chimeras
- RT disease resistance
- RT graft-host reaction
- RT hemolysis
- RT immune reactions
- RT immunoglobulins
- RT immunology
- RT immunosuppression
- RT inoculation
- RT interferon
- RT lymphocytes
- RT lymphokines

RT natural killer cells  
 RT preventive medicine  
 RT radioimmunology  
 RT receptors  
 RT thymectomy  
 RT toxoids  
 RT transplants  
 RT vaccines

**IMMUNOASSAY**

INIS: 1999-03-26; ETDE: 1987-04-08

BT1 bioassay  
 NT1 enzyme immunoassay  
 NT1 radioimmunoassay

**IMMUNOGLOBULINS**

\*BT1 globulins  
 RT gene amplification  
 RT immunity

**IMMUNOLOGY**

NT1 radioimmunology  
 RT immunity  
 RT mitogens

**IMMUNOSUPPRESSION**

RT antimetabolic drugs  
 RT cyclosporine  
 RT endoxan  
 RT glucocorticoids  
 RT histocompatibility complex  
 RT immunity  
 RT immunosuppressive drugs  
 RT transplants

**IMMUNOSUPPRESSIVE DRUGS**

1992-07-16

BT1 drugs  
 NT1 cyclosporine  
 NT1 endoxan  
 RT immunosuppression  
 RT immunotherapy

**IMMUNOTHERAPY**

INIS: 1981-05-11; ETDE: 1978-06-14

\*BT1 therapy  
 NT1 radioimmunotherapy  
 RT corynebacterium parvum  
 RT immunosuppressive drugs

**IMO**

2001-07-17

UF *imco*  
 UF *inter-governmental maritime consultative organization*  
 UF *international maritime consultative organization*  
 UF *international maritime organization*  
 BT1 international organizations  
 RT united nations

**IMP DEVICE**

\*BT1 magnetic mirrors

**IMP SATELLITES**

BT1 satellites

**IMPACT FUSION**

INIS: 1981-06-19; ETDE: 1979-10-23

*Achieved by the acceleration of a DT-bearing projectile and subsequent impact with a stationary target or a similarly accelerated projectile.*

\*BT1 thermonuclear reactions  
 RT inertial confinement  
 RT magnetic gradient accelerators  
 RT railgun accelerators

**IMPACT FUSION DRIVERS**

INIS: 1995-07-21; ETDE: 1980-01-15

*Macroparticle accelerators to be used in inertial confinement fusion.*

BT1 inertial fusion drivers

NT1 magnetic gradient accelerators  
 RT accelerators  
 RT plasma guns  
 RT railgun accelerators

**IMPACT PARAMETER**

RT nuclear reactions  
 RT peripheral collisions  
 RT scattering

**IMPACT SHOCK**

UF *shock (impact)*  
 RT damage  
 RT failures  
 RT impact strength  
 RT missile protection  
 RT potting  
 RT shock absorbers  
 RT shock waves  
 RT water hammer

**IMPACT STRENGTH**

UF *strength (impact)*  
 BT1 mechanical properties  
 RT impact shock  
 RT impact tests

**IMPACT TESTS**

\*BT1 mechanical tests  
 NT1 charpy test  
 RT destructive testing  
 RT impact strength  
 RT notches

**IMPEDANCE**

NT1 electric impedance  
 NT1 mechanical impedance

**imperfections**

USE defects

**IMPERIAL VALLEY**

1997-06-19

BT1 valleys  
 RT california  
 RT east mesa geothermal field  
 RT geothermal fields  
 RT salton sea  
 RT watersheds

**impermeable dry rock**

2000-04-12

USE hot-dry-rock systems

**IMPINGEMENT**

1996-05-23

(Until May 1996 this concept was indexed to FOULING and SCREENS.)

RT entrainment  
 RT fouling  
 RT intake structures  
 RT screens

**implanted sources**

INIS: 2000-04-12; ETDE: 1978-05-01

USE radiation source implants

**IMPLANTS**

INIS: 1981-11-27; ETDE: 1978-07-05

*For emplacement of materials into organisms; not for ION IMPLANTATION, CRYSTAL DOPING, etc.*

NT1 radiation source implants  
 RT injection

**IMPLEMENTATION**

INIS: 1985-03-19; ETDE: 1976-10-13

*Provision of instruments or means of accomplishing or carrying out plans, orders, laws, etc.*

RT administrative procedures  
 RT agreements  
 RT enforcement

RT feasibility studies  
 RT government policies  
 RT legislation  
 RT planning  
 RT recommendations  
 RT regulations

**IMPLOSIONS**

NT1 laser implosions  
 NT2 direct drive laser implosion  
 NT2 indirect drive laser implosion  
 RT explosions  
 RT linus reactors  
 RT shock waves

**import taxes**

INIS: 2000-04-12; ETDE: 1978-06-14

USE tariffs

**importance function (neutron)**

USE neutron importance function

**IMPORTS**

INIS: 1992-02-23; ETDE: 1978-06-14

*Goods or services brought from another country.*

(Until February 1992 this concept was indexed by TRADE.)

BT1 trade  
 RT domestic supplies  
 RT exports  
 RT foreign policy  
 RT oil-importing countries  
 RT sales  
 RT tariffs

**IMPREGNATION**

*The infusion or permeation of one substance into another.*

RT adsorption

**improvement ratio**

INIS: 2000-04-12; ETDE: 1983-01-21

USE formation damage

**impulse**

2000-04-12

USE pulses

**impulse (linear momentum)**

INIS: 1983-02-03; ETDE: 2002-06-13

USE linear momentum

**impulse (pulses)**

INIS: 1983-02-03; ETDE: 2002-06-13

USE pulses

**IMPULSE APPROXIMATION**

\*BT1 approximations  
 RT bound state  
 RT coupling  
 RT scattering

**impulse graphite reactor**

INIS: 2003-11-26; ETDE: 2003-12-03

*Kurchatov city, East Kazakhstan.*

USE igr reactor

**IMPURITIES**

*Unwanted constituents only, not for metal and nonmetal additions, or for the concepts covered by TRACE AMOUNTS and INTERFERING ELEMENTS.*

UF *purity*  
 NT1 plasma impurities  
 RT activation analysis  
 RT contamination  
 RT inclusions  
 RT interfering elements  
 RT jesse effect  
 RT microanalysis  
 RT plasma

RT purification  
 RT segregation  
 RT substoichiometry  
 RT trace amounts

**impurity study experimental tokamak**

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE isx tokamak

**ims**

INIS: 1977-04-07; ETDE: 1977-10-19  
 USE international magnetospheric study

**IMS STELLARATOR**

INIS: 1990-12-15; ETDE: 1991-08-20  
*Interchangeable Module Stellarator at University of Wisconsin, Madison, Wisconsin, USA.*  
 \*BT1 stellarators

**in 519**

INIS: 2000-04-12; ETDE: 1979-08-09  
 (Prior to March 1997 ALLOY-IN-519 was used for this concept in ETDE.)  
 USE chromium alloys  
 USE iron base alloys  
 USE nickel alloys  
 USE niobium alloys

**IN-BEAM SPECTROSCOPY**

INIS: 1977-06-13; ETDE: 1977-10-20  
 BT1 spectroscopy

**in-core fuel management**

USE fuel management

**IN CORE INSTRUMENTS**

*See also specific instruments plus FUEL ASSEMBLIES or REACTOR CORES.*

BT1 reactor instrumentation  
 NT1 noise thermometers  
 RT acoustic monitoring  
 RT in-service inspection  
 RT positioning  
 RT reactor cores  
 RT temperature monitoring

**in-core thermionic reactor**

2000-04-12  
 USE beryllium moderated reactors  
 USE enriched uranium reactors  
 USE thermionic reactors  
 USE zero power reactors

**IN-COUNTRY DETECTION**

INIS: 2000-04-12; ETDE: 1987-04-08  
*That part of the test ban verification process in which seismic data are collected from locations within the country.*  
 \*BT1 seismic detection  
 RT nuclear explosion detection  
 RT nuclear explosions  
 RT on-site inspection  
 RT underground explosions

**IN PILE LOOPS**

UF loops (in pile)  
 \*BT1 reactor experimental facilities  
 RT experimental channels  
 RT irradiation capsules

**IN-SERVICE INSPECTION**

INIS: 1977-06-13; ETDE: 1977-04-12  
 BT1 inspection  
 RT in core instruments  
 RT nondestructive testing  
 RT reactor maintenance

**IN-SITU COMBUSTION**

INIS: 2000-04-12; ETDE: 1976-05-17  
*Air is injected into a well ignition is caused to occur at the input well, and a combustion zone*

*is propagated within the reservoir rock to nearby producing wells.*

UF fire flooding  
 \*BT1 combustion  
 \*BT1 in-situ processing  
 RT in-situ gasification  
 RT in-situ retorting  
 RT reverse combustion  
 RT thermal recovery

**IN-SITU GASIFICATION**

2000-04-12  
 UF holzheimer process  
 UF underground gasification  
 \*BT1 gasification  
 \*BT1 in-situ processing  
 RT coal gasification  
 RT electrolinking  
 RT in-situ combustion

**IN-SITU HYBRIDIZATION**

1996-05-03  
 \*BT1 nucleic acid hybridization  
 RT chromosomes  
 RT dna  
 RT dna hybridization  
 RT genes  
 RT genetic mapping  
 RT rna

**IN-SITU LIQUEFACTION**

2000-04-12  
 \*BT1 in-situ processing  
 \*BT1 liquefaction

**IN-SITU PROCESSING**

2000-02-01  
 BT1 processing  
 NT1 in-situ combustion  
 NT1 in-situ gasification  
 NT1 in-situ liquefaction  
 NT1 in-situ retorting  
 NT1 solution mining  
 RT leachates  
 RT leaching  
 RT modified in-situ processes  
 RT oil shales  
 RT ore processing  
 RT retorting  
 RT underground explosions

**IN-SITU RETORTING**

2000-04-12  
 UF ljungstrom process  
 \*BT1 in-situ processing  
 \*BT1 retorting  
 RT in-situ combustion  
 RT oil shales  
 RT rise

**in utero irradiation**

USE prenatal irradiation

**IN-VESSEL HEAT EXCHANGERS**

BT1 heat exchangers

**IN VITRO**

*As opposite to in vivo.*  
 RT cell cultures  
 RT clone cells  
 RT culture media  
 RT hela cells  
 RT homogenates  
 RT l cells  
 RT tissue cultures

**IN VIVO**

*To be used only to differentiate from in vitro studies at the cellular or tissue level.*

RT animal tissues  
 RT cell division  
 RT cell proliferation

RT organs  
 RT plant cells  
 RT tumor cells

**INACTIVATION**

RT inhibition  
 RT preservation  
 RT sterilization

**incandescent lamps**

INIS: 2000-04-12; ETDE: 1986-07-08  
 USE light bulbs

**incentives**

INIS: 2000-04-12; ETDE: 1979-08-07  
 (From August 1979 to March 1997 LEGAL INCENTIVES was a valid ETDE descriptor.)  
 SEE financial incentives

**INCIDENCE ANGLE**

INIS: 1984-04-04; ETDE: 1980-01-24  
*Use only when the incidence angle is a significant parameter.*

UF angle (incidence)  
 UF angle of incidence  
 RT angular distribution  
 RT inclination  
 RT optics  
 RT orientation  
 RT reflection  
 RT refraction  
 RT scattering

**incidents**

USE accidents

**incineration**

INIS: 2000-04-12; ETDE: 1982-03-11  
 USE combustion

**INCINERATORS**

UF kiln incinerators  
 NT1 waste incinerators  
 NT1 waterwall incinerators  
 RT burners  
 RT combustion  
 RT furnaces

**INCLINATION**

*Angle between velocity vector of a charged particle and the magnetic field in which particle moves.*

UF angle of inclination  
 UF pitch angle  
 RT geomagnetic field  
 RT incidence angle  
 RT tilt mechanisms

**INCLINED STRATA**

INIS: 1992-07-21; ETDE: 1980-03-29  
 \*BT1 geologic strata  
 RT coal seams  
 RT geologic deposits

**inclusion complexes**

USE clathrates

**INCLUSIONS**

RT castings  
 RT crystal defects  
 RT impurities  
 RT ion implantation  
 RT microstructure  
 RT trace amounts

**inclusive distribution**

USE distribution  
 USE inclusive interactions

**INCLUSIVE INTERACTIONS**

*The group of all interactions of two particles producing a specific final state.*  
 UF inclusive distribution

\*BT1 particle interactions  
**NT1** semi-inclusive interactions  
*RT* exclusive interactions  
*RT* limiting fragmentation  
*RT* nuclear fireball model

**INCOHERENT PRODUCTION**

\*BT1 particle interactions  
 BT1 particle production  
*RT* coherent tube model

**INCOHERENT SCATTERING**

BT1 scattering  
*RT* diffuse scattering  
*RT* inelastic scattering

**INCOLOY 800**

1993-10-03  
*UF* alloy 800  
 \*BT1 alloy-fe46ni33cr21

**INCOLOY 800H**

*INIS*: 1993-10-03; *ETDE*: 1982-02-23  
*UF* alloy 800h  
*UF* alloy-800h (incoloy)  
 \*BT1 alloy-fe44ni33cr21

**INCOLOY 802**

*INIS*: 1993-10-03; *ETDE*: 1979-08-09  
*UF* alloy-802 (incoloy)  
 \*BT1 alloy-fe46ni33cr21

**INCOLOY 825**

*INIS*: 1993-10-03; *ETDE*: 1980-09-22  
*UF* alloy-825 (incoloy)  
 \*BT1 alloy-ni43fe30cr22mo3

**INCOLOY 901**

1993-10-03  
*UF* alloy-901 (incoloy)  
 \*BT1 aluminium additions  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 incoloy alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys  
 \*BT1 titanium alloys

**INCOLOY ALLOYS**

*UF* alloy-ni42fe36cr12mo6ti3  
 BT1 alloys  
**NT1** alloy-fe44ni33cr21  
**NT2** incoloy 800h  
**NT1** alloy-fe46ni33cr21  
**NT2** incoloy 800  
**NT2** incoloy 802  
**NT1** alloy-ni43fe30cr22mo3  
**NT2** incoloy 825  
**NT1** incoloy 901

**INCOME**

1999-12-07  
*UF* disposable income  
**NT1** royalties  
*RT* charges  
*RT* economics  
*RT* high income groups  
*RT* income distribution  
*RT* inflation  
*RT* low income groups  
*RT* prices  
*RT* profits  
*RT* standard of living

**INCOME DISTRIBUTION**

*INIS*: 1999-12-07; *ETDE*: 1978-02-14  
*RT* economics  
*RT* high income groups  
*RT* income

**INCOMPLETE FUSION REACTIONS**

*INIS*: 1985-01-18; *ETDE*: 1984-07-10  
*UF* breakup fusion  
*UF* massive transfer reactions  
 \*BT1 heavy ion reactions  
*RT* compound-nucleus reactions  
*RT* deep inelastic heavy ion reactions  
*RT* heavy ion fusion reactions  
*RT* nuclear fragmentation  
*RT* precompound-nucleus emission  
*RT* transfer reactions

**INCOMPRESSIBLE FLOW**

*SF* perfect flow  
 BT1 fluid flow  
**NT1** ideal flow  
*RT* navier-stokes equations

**INCONEL 600**

1993-10-03  
*UF* alloy-600 (inconel)  
 \*BT1 alloy-ni76cr15fe8

**inconel 601**

*INIS*: 1985-01-17; *ETDE*: 2002-06-13  
 USE alloy-ni61cr23fe14

**INCONEL 617**

1993-10-03  
*UF* alloy-617 (inconel)  
 \*BT1 alloy-ni54cr22co13mo9

**INCONEL 625**

1993-10-03  
*UF* alloy-625 (inconel)  
 \*BT1 alloy-ni61cr22mo9nb4fe3

**inconel 643**

*INIS*: 2000-04-12; *ETDE*: 1979-05-25  
 (Prior to August 1996 this was a valid ETDE descriptor.)  
 USE inconel alloys

**INCONEL 671**

*INIS*: 1993-10-03; *ETDE*: 1977-03-04  
*UF* alloy-671 (inconel)  
 \*BT1 alloy-ni51cr48

**INCONEL 690**

*INIS*: 1993-10-03; *ETDE*: 1980-09-22  
*UF* alloy-690 (inconel)  
 \*BT1 alloy-ni59cr30fe9

**INCONEL 700**

*INIS*: 1996-07-17; *ETDE*: 1979-05-25  
 \*BT1 inconel alloys

**inconel 702**

1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE aluminium alloys  
 USE chromium alloys  
 USE inconel alloys

**INCONEL 706**

1993-10-03  
*UF* alloy-706 (inconel)  
 \*BT1 alloy-ni41fe40cr16nb3

**INCONEL 713C**

1993-10-03  
 \*BT1 alloy-ni74cr13al6mo4

**INCONEL 713LC**

*INIS*: 1993-10-03; *ETDE*: 1978-12-20  
*UF* alloy-713-lc  
*UF* alloy-713lc (inconel)  
 \*BT1 alloy-ni75cr12al6mo5

**INCONEL 718**

1993-10-03  
 \*BT1 alloy-ni53cr19fe19nb5mo3

**INCONEL 738**

*INIS*: 2000-02-14; *ETDE*: 1978-12-20  
 \*BT1 inconel alloys

**INCONEL 739**

*INIS*: 2000-04-12; *ETDE*: 1979-09-06  
 \*BT1 inconel alloys

**INCONEL 82**

1993-10-03  
*UF* alloy-82 (inconel)  
 \*BT1 alloy-ni73cr20mn3nb3

**INCONEL ALLOYS**

1996-11-13  
 (From 1979 till August 1996 ALLOY-IN-643 and INCONEL 643 were valid ETDE descriptors.)

*UF* alloy-in-643  
*UF* alloy-ni47cr25co12w9fe3  
*UF* alloy-ni48co28cr15al3mo3ti2  
*UF* alloy-ni78cr16al4  
*UF* inconel 643  
*UF* inconel 702  
 \*BT1 nickel base alloys  
**NT1** alloy-ni41fe40cr16nb3  
**NT2** inconel 706  
**NT1** alloy-ni46cr23co19ti5al4  
**NT2** alloy-in-939  
**NT1** alloy-ni51cr48  
**NT2** inconel 671  
**NT1** alloy-ni53cr19fe19nb5mo3  
**NT2** inconel 718  
**NT1** alloy-ni54cr22co13mo9  
**NT2** inconel 617  
**NT1** alloy-ni59cr30fe9  
**NT2** inconel 690  
**NT1** alloy-ni60co15cr10al6ti5mo3  
**NT2** alloy-in-100  
**NT1** alloy-ni61cr16co9al3ti3w3  
**NT2** alloy-in-738  
**NT1** alloy-ni61cr22mo9nb4fe3  
**NT2** inconel 625  
**NT1** alloy-ni61cr23fe14  
**NT1** alloy-ni73cr15fe7ti3  
**NT2** inconel x750  
**NT1** alloy-ni73cr20mn3nb3  
**NT2** inconel 82  
**NT1** alloy-ni74cr13al6mo4  
**NT2** inconel 713c  
**NT1** alloy-ni75cr12al6mo5  
**NT2** inconel 713lc  
**NT1** alloy-ni76cr15fe8  
**NT2** inconel 600  
**NT1** inconel 700  
**NT1** inconel 738  
**NT1** inconel 739  
*RT* alloy-ni70mo17cr7fe5  
*RT* inor-8  
*RT* nimonic

**inconel ma 753**

2000-04-12  
 USE alloy-in-853

**INCONEL X750**

1993-10-03  
*UF* alloy-x750 (inconel)  
 \*BT1 alloy-ni73cr15fe7ti3

**incorporation (biological)**

*INIS*: 1983-02-03; *ETDE*: 1983-03-07  
 USE uptake

**increasing**

*INIS*: 2000-04-12; *ETDE*: 1979-07-18  
 USE augmentation



**INCREMENTAL-COST PRICING**

*INIS: 2000-04-12; ETDE: 1978-12-11*  
 Charges based on cost of attracting new supplies to replace the dwindling flow from conventional sources.

BT1 prices  
 RT marginal-cost pricing

**INCUBATION**

RT heating  
 RT infectious diseases  
 RT latency period  
 RT quarantine  
 RT time dependence

**INDAN**

*INIS: 2000-04-12; ETDE: 1976-10-13*  
 \*BT1 aromatics  
 \*BT1 hydrocarbons

**INDAZOLES**

\*BT1 pyrazoles

**indc**

*INIS: 1976-07-16; ETDE: 2002-06-13*  
 USE international nuclear data committee

**INDEMNIFICATION AGREEMENTS**

*INIS: 1976-12-08; ETDE: 1994-08-10*  
 Agreements whereby the State undertakes to compensate for nuclear damage involving the civil liability of the nuclear operator.

BT1 agreements  
 RT liabilities  
 RT workmens compensation

**INDENE**

\*BT1 condensed aromatics  
 \*BT1 hydrocarbons

**independent-particle model**

USE single-particle model

**index of refraction**

*INIS: 1982-12-07; ETDE: 2002-06-13*  
 USE refractive index

**INDEXES**

Should be used to index all pieces of literature which are indexes.

BT1 document types  
 RT directories  
 RT information retrieval

**INDIA**

BT1 asia  
 BT1 developing countries  
 RT brahmaputra river  
 RT ganga river

**india ink**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE inks  
 USE pigments

**INDIAN OCEAN**

1997-06-19  
 \*BT1 seas  
 NT1 arabian sea  
 NT2 persian gulf  
 NT3 strait of hormuz  
 NT1 timor sea  
 RT madagascar  
 RT mauritius  
 RT reunion island  
 RT southern oscillation  
 RT sri lanka  
 RT tasmania

**INDIAN ORGANIZATIONS**

Not to be used for American Indian Organizations.

BT1 national organizations  
 NT1 barc  
 NT1 igcar

**INDIAN POINT-1 REACTOR**

Consolidated Edison Co., Buchanan, New York, USA. Shut down in 1974.  
 UF consolidated edison thorium reactor  
 \*BT1 pwr type reactors

**INDIAN POINT-2 REACTOR**

Entergy Nuclear IP2 LLC, Buchanan, New York, USA.  
 \*BT1 pwr type reactors

**INDIAN POINT-3 REACTOR**

Entergy Nuclear Operations, Inc., Buchanan, New York, USA.  
 \*BT1 pwr type reactors

**indian reservations**

*INIS: 2000-04-12; ETDE: 1979-01-30*  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 SEE american indians

**INDIANA**

\*BT1 usa  
 RT illinois basin  
 RT ohio river

**indiana university cyclotron**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
 USE iu cyclotron

**indians (american)**

*INIS: 2000-04-12; ETDE: 1978-11-14*  
 USE american indians

**indicator species**

*INIS: 2000-04-12; ETDE: 1976-03-22*  
 USE biological indicators

**INDICATORS**

1996-10-23  
 UF congo red  
 UF erioglaucine  
 UF neutral red  
 UF toluylene red  
 SF chemicals  
 NT1 bromosulfophthalein  
 NT1 eosin  
 NT1 indocyanine green  
 NT1 methyl orange  
 NT1 methyl red  
 NT1 methylthymol blue  
 NT1 phenolphthalein  
 NT1 pyrocatechol violet  
 NT1 rose bengal  
 NT1 xylenol orange

**INDIGO**

*INIS: 2000-04-12; ETDE: 1983-01-21*  
 UF indigo red  
 BT1 dyes  
 \*BT1 indoles

**indigo red**

*INIS: 2000-04-12; ETDE: 1983-01-21*  
 USE indigo

**INDIRECT DRIVE ICF**

1999-09-15  
 Inertial confinement fusion in which the driver energy is converted into x-rays before being absorbed by the target capsule.  
 RT indirect drive laser implosion  
 RT inertial confinement

**INDIRECT DRIVE LASER****IMPLOSION**

*INIS: 1995-07-21; ETDE: 1992-06-11*  
 Laser implosion where the driver energy is converted into x-rays before being absorbed by the target capsule.

\*BT1 laser implosions  
 RT direct drive laser implosion  
 RT indirect drive icf  
 RT inertial fusion drivers  
 RT laser fusion reactors  
 RT laser-produced plasma  
 RT laser-radiation heating  
 RT laser targets  
 RT pulsed fusion reactors

**INDIUM**

\*BT1 metals

**INDIUM 100**

1982-06-09  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

**INDIUM 101**

*INIS: 1988-06-22; ETDE: 1988-07-15*  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**INDIUM 102**

*INIS: 1981-02-27; ETDE: 1981-03-13*  
 \*BT1 electron capture radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**INDIUM 103**

*INIS: 1978-11-24; ETDE: 1978-12-20*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**INDIUM 104**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**INDIUM 105**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**INDIUM 106**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**INDIUM 107**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei



**INDIUM 135**

2002-06-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**INDIUM 97**

2007-11-01

- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**INDIUM 98**

2007-11-01

- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 99**

2007-11-01

- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**INDIUM ADDITIONS**

*Alloys containing not more than 1% In are listed here.*

- \*BT1 indium alloys

**INDIUM ALLOYS**

*Alloys containing more than 1% In.*

- BT1 alloys
- NT1 indium additions
- NT1 indium base alloys

**indium antimonide detectors**

*INIS: 1988-04-15; ETDE: 2002-06-13*

USE insb semiconductor detectors

**INDIUM ANTIMONIDES**

*INIS: 1989-05-29; ETDE: 1989-06-21*

- \*BT1 antimonides
- BT1 indium compounds

**INDIUM ARSENIDES**

- \*BT1 arsenides
- BT1 indium compounds

**INDIUM BASE ALLOYS**

- \*BT1 indium alloys

**INDIUM BORIDES**

- \*BT1 borides
- BT1 indium compounds

**INDIUM BROMIDES**

- \*BT1 bromides
- BT1 indium compounds

**INDIUM CARBIDES**

1996-07-18

(From July 1996 to November 2007 INDIUM COMPOUNDS + CARBIDES was used for this concept.)

- \*BT1 carbides
- BT1 indium compounds

**INDIUM CHLORIDES**

- \*BT1 chlorides
- BT1 indium compounds

**INDIUM COMPLEXES**

- BT1 complexes

**INDIUM COMPOUNDS**

1997-06-17

- NT1 indium antimonides
- NT1 indium arsenides
- NT1 indium borides
- NT1 indium bromides
- NT1 indium carbides
- NT1 indium chlorides
- NT1 indium fluorides
- NT1 indium hydrides
- NT1 indium hydroxides
- NT1 indium iodides
- NT1 indium nitrates
- NT1 indium nitrides
- NT1 indium oxides
- NT1 indium perchlorates
- NT1 indium phosphates
- NT1 indium phosphides
- NT1 indium selenides
- NT1 indium silicates
- NT1 indium sulfates
- NT1 indium sulfides
- NT1 indium tellurides
- NT1 indium tungstates

**INDIUM FLUORIDES**

- \*BT1 fluorides
- BT1 indium compounds

**INDIUM HYDRIDES**

- \*BT1 hydrides
- BT1 indium compounds

**INDIUM HYDROXIDES**

- \*BT1 hydroxides
- BT1 indium compounds

**INDIUM IODIDES**

- BT1 indium compounds
- \*BT1 iodides

**INDIUM IONS**

- \*BT1 ions

**INDIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 indium 100
- NT1 indium 101
- NT1 indium 102
- NT1 indium 103
- NT1 indium 104
- NT1 indium 105
- NT1 indium 106
- NT1 indium 107
- NT1 indium 108
- NT1 indium 109
- NT1 indium 110
- NT1 indium 111
- NT1 indium 112
- NT1 indium 113
- NT1 indium 114
- NT1 indium 115
- NT1 indium 116
- NT1 indium 117
- NT1 indium 118
- NT1 indium 119
- NT1 indium 120
- NT1 indium 121
- NT1 indium 122
- NT1 indium 123
- NT1 indium 124
- NT1 indium 125
- NT1 indium 126
- NT1 indium 127
- NT1 indium 128
- NT1 indium 129
- NT1 indium 130
- NT1 indium 131
- NT1 indium 132
- NT1 indium 133

NT1 indium 134

NT1 indium 135

NT1 indium 97

NT1 indium 98

NT1 indium 99

**INDIUM NITRATES**

- BT1 indium compounds
- \*BT1 nitrates

**INDIUM NITRIDES**

- BT1 indium compounds
- \*BT1 nitrides

**INDIUM OXIDES**

- BT1 indium compounds
- \*BT1 oxides

**INDIUM PERCHLORATES**

*INIS: 1978-09-28; ETDE: 1977-11-28*

- BT1 indium compounds
- \*BT1 perchlorates

**INDIUM PHOSPHATES**

*INIS: 1978-09-28; ETDE: 1978-10-19*

- BT1 indium compounds
- \*BT1 phosphates

**INDIUM PHOSPHIDE SOLAR CELLS**

*INIS: 1992-05-28; ETDE: 1978-12-11*

- \*BT1 solar cells

**INDIUM PHOSPHIDES**

- BT1 indium compounds
- \*BT1 phosphides

**INDIUM SELENIDE SOLAR CELLS**

*INIS: 1992-05-28; ETDE: 1981-07-18*

- \*BT1 solar cells

**INDIUM SELENIDES**

1976-03-17

- BT1 indium compounds
- \*BT1 selenides

**INDIUM SILICATES**

*INIS: 1996-07-18; ETDE: 1975-09-11*

(From July 1996 to November 2007 INDIUM COMPOUNDS + SILICATES was used for this concept.)

- BT1 indium compounds
- \*BT1 silicates

**INDIUM SULFATES**

- BT1 indium compounds
- \*BT1 sulfates

**INDIUM SULFIDES**

- BT1 indium compounds
- \*BT1 sulfides

**INDIUM TELLURIDES**

- BT1 indium compounds
- \*BT1 tellurides

**INDIUM TUNGSTATES**

*INIS: 2000-04-12; ETDE: 1976-11-17*

- BT1 indium compounds
- \*BT1 tungstates

**INDOCYANINE GREEN**

*INIS: 1975-10-29; ETDE: 1975-12-16*

- \*BT1 condensed aromatics
- BT1 dyes
- BT1 indicators
- \*BT1 indoles
- \*BT1 sulfonates

**INDOLES**

*UF benzopyrroles*

- \*BT1 azaarenes
- \*BT1 pyrroles
- NT1 indigo
- NT1 indocyanine green

NT1 lysergic acid  
 NT1 reserpine  
 NT1 strychnine  
 NT1 tryptamines  
 NT2 melatonin  
 NT2 serotonin  
 NT3 bufotenine  
 NT1 tryptophan  
 NT1 vinblastine  
 RT ergotamine

**INDONESIA**

1997-06-19

UF java (island)  
 BT1 asia  
 BT1 developing countries  
 BT1 islands  
 RT dieng geothermal field  
 RT kamojang geothermal field  
 RT opec  
 RT pacific ocean  
 RT timor sea

**INDONESIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**indonesian triga-mk-2 reactor**

1997-01-28

USE triga-2-bandung reactor

**INDOOR AIR CONTAMINATION**

1994-02-28

For radioactive contamination only. For non-radioactive materials use INDOOR AIR POLLUTION.

BT1 contamination  
 RT indoors

**INDOOR AIR POLLUTION**

INIS: 1994-02-28; ETDE: 1978-09-13

For non-radioactive pollution only. For radioactive materials such as radon use INDOOR AIR CONTAMINATION.

\*BT1 air pollution  
 RT indoors

**INDOORS**

2004-11-02

Only for documents where this concept is significant.

RT indoor air contamination  
 RT indoor air pollution  
 RT outdoors

**INDUCED POLARIZATION****LOGGING**

INIS: 2000-04-12; ETDE: 1979-03-29

Exploration method involving measurement of the slow decay of voltage in the ground following the cessation of an excitation current pulse or low frequency variations of earth impedance.

\*BT1 electric logging  
 RT electrical surveys

**induced radioactivity**

USE radioactivity

**INDUCTANCE**

1992-03-11

\*BT1 electrical properties  
 RT capacitance  
 RT electric conductivity

**INDUCTION**

NT1 faraday induction  
 RT llnl advanced test accelerator

**INDUCTION FURNACES**

\*BT1 electric furnaces

**INDUCTION GENERATORS**

INIS: 1992-02-23; ETDE: 1981-12-14

\*BT1 electric generators

**INDUCTION LOGGING**

INIS: 1984-04-04; ETDE: 1976-06-07

UF magnetic induction logging  
 \*BT1 electric logging  
 RT magnetic surveys  
 RT resistivity logging

**INDUCTION WELDING**

\*BT1 welding

**inductors**

USE solenoids

**INDUS-1**

1994-06-13

450 MeV synchrotron radiation source at the Centre for Advanced Technology, Indore, India.

UF indus-i  
 BT1 storage rings  
 \*BT1 synchrotron radiation sources

**INDUS-2**

1994-06-13

2 GeV synchrotron radiation source at the Centre for Advanced Technology, Indore, India.

UF indus-ii  
 BT1 storage rings  
 \*BT1 synchrotron radiation sources

**indus-i**

INIS: 1994-06-13; ETDE: 1993-08-30

(Until June 1994 this was a valid descriptor.)

USE indus-1

**indus-ii**

INIS: 1994-06-13; ETDE: 1993-08-30

(Until June 1994 this was a valid descriptor.)

USE indus-2

**INDUSTRIAL ACCIDENTS**

BT1 accidents

**INDUSTRIAL BUILDINGS**

2007-07-27

BT1 buildings  
 RT industrial plants  
 RT industry

**INDUSTRIAL MEDICINE**

BT1 medicine  
 RT accidents  
 RT occupational diseases  
 RT occupational safety  
 RT personnel  
 RT radiation protection  
 RT working conditions

**industrial parks**

INIS: 2000-04-12; ETDE: 1979-09-26

Areas at a distance from a city center designed especially for communities of industries and businesses.

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE energy parks  
 SEE industry

**INDUSTRIAL PLANTS**

1996-07-18

UF manufacturing facilities  
 UF plants (industrial)  
 NT1 biomass conversion plants  
 NT1 chemical plants  
 NT2 gasoline plants  
 NT2 petrochemical plants  
 NT1 cimarron plutonium production plant

NT1 cimarron uranium fuel plant

NT1 coal gasification plants

NT1 coal liquefaction plants

NT1 coal preparation plants

NT1 coking plants

NT1 desalination plants

NT1 ethanol plants

NT1 feed materials plants

NT2 feed materials production center

NT2 west valley uf6 facility

NT1 foundries

NT1 isotope separation plants

NT2 centrifuge enrichment plants

NT3 portsmouth centrifuge enrichment plant

NT2 gaseous diffusion plants

NT3 cogema pierrelatte

NT3 orgdp

NT3 paducah plant

NT3 portsmouth gaseous diffusion plant

NT2 heavy water plants

NT2 tritium extraction plants

NT1 lng plants

NT1 methanol plants

NT1 natural gas processing plants

NT1 oil sand processing plants

NT1 oil shale processing plants

NT2 anvil points research facility

NT2 glen davis facility

NT1 oxygen plants

NT1 petroleum refineries

NT1 sequoyah uf6 production plant

NT1 sng plants

NT1 synthetic fuels refineries

NT1 waste processing plants

NT2 resource recovery facilities

NT2 waste incinerators

NT2 waste oil refineries

RT demonstration plants

RT fuel fabrication plants

RT industrial buildings

RT industry

RT modular structures

RT pilot plants

**INDUSTRIAL RADIOGRAPHY**

1999-12-03

See also BIOMEDICAL RADIOGRAPHY.

UF radiography (industrial)

\*BT1 nondestructive testing

NT1 beta radiography

NT1 gamma radiography

NT2 gamma fuel scanning

NT1 neutron radiography

NT1 proton radiography

NT1 x-ray radiography

RT autoradiography

RT inspection

RT microradiography

RT radiation attenuation testing

RT radiological personnel

RT tomography

**industrial relations**

INIS: 2000-04-12; ETDE: 1979-06-06

USE labor relations

**industrial sector**

INIS: 2000-04-12; ETDE: 1979-03-29

USE industry

**INDUSTRIAL WASTES**

INIS: 1975-11-07; ETDE: 1975-10-01

UF municipal wastes (industrial)

SF emissions (industrial)

BT1 wastes

NT1 spent liquors

RT chemical effluents

RT chemical wastes

RT emissions tax  
 RT emissions trading  
 RT gaseous wastes  
 RT liquid wastes  
 RT organic wastes  
 RT pollutants  
 RT refuse derived fuels  
 RT scrap  
 RT scrap metals  
 RT solid wastes

**industrialized countries**

INIS: 1982-12-03; ETDE: 1978-03-03

USE developed countries

**INDUSTRY**

(From September 1979 to March 1997  
 INDUSTRIAL PARKS was a valid ETDE  
 descriptor.)

UF industrial sector  
 SF end use sector  
 SF industrial parks  
 NT1 aerospace industry  
 NT1 automotive industry  
 NT1 beverage industry  
 NT1 cement industry  
 NT1 ceramics industry  
 NT1 chemical industry  
 NT1 coal industry  
 NT1 construction industry  
 NT1 electric power industry  
 NT1 fertilizer industry  
 NT1 fishing industry  
 NT1 food industry  
 NT2 dairy industry  
 NT2 meat industry  
 NT1 furniture industry  
 NT1 geothermal industry  
 NT1 glass industry  
 NT1 metal industry  
 NT1 mineral industry  
 NT1 natural gas industry  
 NT2 lng industry  
 NT1 nuclear industry  
 NT1 oil sand industry  
 NT1 oil shale industry  
 NT1 petroleum industry  
 NT2 lpg industry  
 NT1 plastics industry  
 NT1 printing and publishing industry  
 NT1 rubber industry  
 NT1 solar industry  
 NT1 sugar industry  
 NT1 synthetic fuels industry  
 NT1 textile industry  
 NT1 wind power industry  
 NT1 wood products industry  
 NT2 paper industry  
 RT business  
 RT by-products  
 RT commercialization  
 RT developing countries  
 RT economic development  
 RT fuel reprocessing plants  
 RT horizontal integration  
 RT hydrogen-based economy  
 RT ifiec  
 RT industrial buildings  
 RT industrial plants  
 RT joint ventures  
 RT labor relations  
 RT manufacturers  
 RT manufacturing  
 RT marketers  
 RT mining  
 RT resellers  
 RT retailers  
 RT small businesses  
 RT technology assessment  
 RT technology impacts

RT technology transfer  
 RT technology utilization  
 RT tourism

**INEEL**

2005-05-18

Formerly known as Idaho National  
 Engineering Laboratory, and before 1976 as  
 NRTS.

UF idaho national engineering and  
 environmental laboratory  
 UF idaho national engineering  
 laboratory  
 UF inel  
 UF national reactor testing station  
 UF nrts  
 \*BT1 us doe

**inel**

INIS: 1984-06-21; ETDE: 2002-06-13

USE ineel

**inel safety research experimental  
 facility reactor**

INIS: 1993-11-08; ETDE: 2002-06-13

USE saref reactor

**INELASTIC SCATTERING**

1996-01-24

BT1 scattering  
 NT1 deep inelastic scattering  
 NT1 delbrueck scattering  
 NT1 resonance scattering  
 NT1 thomson scattering  
 RT anharmonic crystals  
 RT hauser-feshbach theory  
 RT incoherent scattering  
 RT skyrme potential  
 RT spin flip

**INERT ATMOSPHERE**

\*BT1 controlled atmospheres  
 NT1 cover gas  
 RT carbon dioxide  
 RT nitrogen  
 RT rare gases

**inertia**

USE moment of inertia

**INERTIAL CONFINEMENT**

INIS: 1999-09-15; ETDE: 1978-04-28

A dynamic plasma confinement by inertial  
 forces.

\*BT1 plasma confinement  
 RT aurora facility  
 RT direct drive icf  
 RT electron beam fusion accelerator  
 RT electron beam fusion reactors  
 RT electron beam targets  
 RT icf devices  
 RT impact fusion  
 RT indirect drive icf  
 RT inertial fusion drivers  
 RT ion beam fusion reactors  
 RT ion beam targets  
 RT laser fusion reactors  
 RT laser implosions  
 RT laser targets  
 RT particle beam fusion accelerator  
 RT us national ignition facility

**inertial confinement fusion devices**

INIS: 1984-08-24; ETDE: 1984-10-24

USE icf devices

**inertial confinement fusion targets**

INIS: 1999-07-26; ETDE: 2002-06-13

SEE electron beam targets  
 SEE ion beam targets  
 SEE laser targets

**INERTIAL FUSION DRIVERS**

1995-07-21

NT1 impact fusion drivers  
 NT2 magnetic gradient accelerators  
 RT direct drive laser implosion  
 RT indirect drive laser implosion  
 RT inertial confinement  
 RT ion beam fusion reactors  
 RT laser fusion reactors

**INERTIAL GUIDANCE**

INIS: 2000-04-12; ETDE: 1975-11-11

RT electronic guidance  
 RT navigational instruments

**INERTIAL SEPARATORS**

INIS: 1976-10-07; ETDE: 1976-03-22

Separators that operate by imparting a  
 centrifugal force to the particle to be removed  
 from the carrier gas stream.

UF ash separators  
 UF centrifugal separators  
 UF separators (inertial)  
 \*BT1 separation equipment  
 NT1 cyclone separators  
 RT dust collectors  
 RT pollution control equipment

**INERTINITE**

INIS: 2000-04-12; ETDE: 1987-07-24

BT1 macerals

**ines**

1995-05-10

USE international nuclear event scale

**INFANTS**

SF newborns

\*BT1 children  
 RT life cycle  
 RT neonates

**INFECTIOUS DISEASES**

BT1 diseases  
 NT1 bacterial diseases  
 NT2 cholera  
 NT2 diphtheria  
 NT2 gonorrhoea  
 NT2 leprosy  
 NT2 syphilis  
 NT2 tetanus  
 NT2 tuberculosis  
 NT2 typhoid  
 NT1 fungal diseases  
 NT2 mycoses  
 NT2 tinea  
 NT1 parasitic diseases  
 NT2 fascioliasis  
 NT2 filariasis  
 NT2 hydatidosis  
 NT2 malaria  
 NT2 schistosomiasis  
 NT2 trichinosis  
 NT2 trypanosomiasis  
 NT1 rickettsial diseases  
 NT2 typhus  
 NT1 viral diseases  
 NT2 aids  
 NT2 herpes simplex  
 NT2 herpes zoster  
 NT2 infectious hepatitis  
 NT2 influenza  
 NT2 measles  
 NT2 newcastle disease  
 NT2 poliomyelitis  
 NT2 rabies  
 RT anti-infective agents  
 RT antibiotics  
 RT epidemiology  
 RT granulomas  
 RT incubation

RT inflammation  
 RT legionella anisa  
 RT legionella pneumophila  
 RT microorganisms  
 RT septicemia  
 RT virulence

**INFECTIOUS HEPATITIS**

INIS: 2000-03-28; ETDE: 1981-01-12

UF hepatitis (infectious)  
 \*BT1 hepatitis  
 \*BT1 viral diseases

**INFECTIVITY**

1997-06-17

RT bacteria  
 RT disinfectants  
 RT endotoxins  
 RT germicides

**infiltration (by people)**

INIS: 1985-07-23; ETDE: 2002-06-13

USE human intrusion

**infiltration (rock)**

INIS: 1985-07-23; ETDE: 2002-06-13

*Deposition in rocks of mineral matter by permeation of water carrying the matter in solution. Coordinate the descriptor below with an appropriate descriptor from the work block of ROCKS.*

USE water influx

**infiltration (water)**

INIS: 1985-07-23; ETDE: 2002-06-13

USE water influx

**INFLAMMATION**

BT1 pathological changes  
 BT1 symptoms  
 RT antipyretics  
 RT granulomas  
 RT infectious diseases  
 RT pneumonitis  
 RT trichinosis

**INFLATABLE COLLECTORS**

INIS: 2000-04-12; ETDE: 1979-02-27

\*BT1 solar collectors  
 RT solar ponds

**INFLATABLE SEALS**

BT1 seals

**INFLATION**

INIS: 1992-02-05; ETDE: 1978-07-06

RT cost  
 RT economic development  
 RT income

**INFLATIONARY UNIVERSE**

INIS: 1985-07-22; ETDE: 1987-08-14

*Universe described by cosmological models which usually involve a very weakly-coupled scalar field which is displaced from the minimum of its potential. Regions of the universe where the scalar field is initially displaced from its minimum undergo inflation as the scalar field relaxes.*

\*BT1 cosmological models  
 RT space-time  
 RT unified gauge models

**INFLUENZA**

\*BT1 viral diseases  
 RT influenza viruses

**INFLUENZA VIRUSES**

\*BT1 viruses  
 RT influenza

**influx (particles)**

1995-07-03

USE particle influx

**influx (water)**

INIS: 1985-10-23; ETDE: 2002-06-13

USE water influx

**INFORMATION**

(From July 1984 till April 1997

CRYPTOGRAPHY was a valid ETDE descriptor; from November 1981 till June 1992 TECHNICAL WRITING was a valid ETDE descriptor.)

UF information validation

SF technical writing

NT1 classified information

NT1 data

NT2 data compilation

NT2 numerical data

NT3 compiled data

NT3 evaluated data

NT3 experimental data

NT3 financial data

NT3 statistical data

NT3 theoretical data

NT1 diagrams

NT2 bragg curve

NT2 electrocardiograms

NT2 engineering drawings

NT2 fermi plot

NT2 feynman diagram

NT2 flowsheets

NT2 goldstone diagrams

NT2 hertzprung-russell diagram

NT2 mollier diagrams

NT2 nomograms

NT2 nyquist diagrams

NT2 optical depth curve

NT3 spectroscopic curve of growth

NT2 phase diagrams

NT2 s-n diagram

NT2 scatterplots

NT3 argand diagrams

NT3 dalitz plot

NT3 prism plot

NT2 sun charts

NT2 thermochemical diagrams

NT2 young diagram

NT1 proprietary information

NT1 public information

NT1 quantum information

NT2 qubits

RT congressional inquiries

RT cryptography

RT data base management

RT information centers

RT information theory

RT libraries

RT manuals

RT privacy act

RT records management

RT technology transfer

**INFORMATION CENTERS**

INIS: 1994-09-09; ETDE: 1976-04-19

UF technical information center

RT data compilation

RT educational facilities

RT information

RT information systems

RT libraries

**information declassification**

INIS: 2000-04-12; ETDE: 1983-03-24

USE declassification

**INFORMATION DISSEMINATION**

INIS: 1995-10-27; ETDE: 1980-05-06

RT information needs

RT information systems  
 RT internet  
 RT knowledge management  
 RT proprietary information  
 RT public information  
 RT technology transfer

**INFORMATION NEEDS**

INIS: 1976-03-25; ETDE: 1976-08-24

*Identification of subject areas or types of data on which information is needed in order to further specific areas of research. Coordinate with descriptors for the specific areas of research.*

RT data

RT information dissemination

RT reporting requirements

RT research programs

RT us napap

**INFORMATION RETRIEVAL**

1996-07-08

(From June 1975 till August 1996 UNISIST was a valid ETDE descriptor.)

UF document retrieval

UF records retrieval

SF unisist

RT data base management

RT data tagging

RT documentation

RT indexes

RT information systems

RT knowledge management

RT standardized terminology

**INFORMATION SYSTEMS**

1996-07-08

(From June 1975 till August 1996 UNISIST was a valid ETDE descriptor.)

SF seedis

SF unisist

NT1 agris

NT1 cinda

NT1 etde

NT1 geographic information systems

NT1 inis

NT1 seidb

NT1 wends

RT computer networks

RT data base management

RT data compilation

RT data tagging

RT distributed data processing

RT documentation

RT information centers

RT information dissemination

RT information retrieval

RT information theory

RT knowledge management

RT libraries

RT nuclear data collections

RT standardized terminology

**INFORMATION THEORY**

RT communications

RT cybernetics

RT data processing

RT game theory

RT information

RT information systems

RT quantum information

RT redundancy

RT set theory

**information validation**

INIS: 1982-10-29; ETDE: 1995-05-10

USE information

USE verification

**INFRARED DIVERGENCES**

UF divergences (infrared)

RT quantum electrodynamics

## INFRARED RADIATION

\*BT1 electromagnetic radiation  
 NT1 far infrared radiation  
 NT1 intermediate infrared radiation  
 NT1 near infrared radiation  
 RT infrared spectra  
 RT infrared thermography  
 RT thermal radiation  
 RT thermography  
 RT wavelengths

## INFRARED SPECTRA

BT1 spectra  
 RT absorption spectroscopy  
 RT infrared radiation  
 RT structural chemical analysis  
 RT vibrational states

## INFRARED SPECTROMETERS

1976-02-11

\*BT1 spectrometers  
 NT1 photoacoustic spectrometers

## INFRARED SURVEYS

2000-01-21

\*BT1 geophysical surveys  
 RT geothermal exploration

## INFRARED THERMOGRAPHY

INIS: 1978-07-03; ETDE: 1977-09-19

*A method for measuring the infrared radiation emitted from surfaces.*

UF thermal photography

\*BT1 thermography  
 RT heat losses  
 RT infrared radiation  
 RT temperature monitoring

## INFUSION

BT1 intake

## ing linac

1996-07-18

*Intense Neutron Generator Linac.*

(Until July 1996 this was a valid descriptor.)

USE linear accelerators  
 USE neutron sources

## INGESTION

BT1 intake  
 RT beverages  
 RT diet  
 RT digestion  
 RT drinking water  
 RT food  
 RT intestinal absorption  
 RT oral administration  
 RT oral cavity

## INHALATION

BT1 intake  
 RT aerosols  
 RT air  
 RT breath  
 RT dusts  
 RT intratracheal administration  
 RT maximum inhalation quantity  
 RT radionuclide administration  
 RT respiration  
 RT respirators  
 RT respiratory system

## inhalation exposure chambers

INIS: 1978-09-28; ETDE: 1977-10-20

USE exposure chambers

## INHALATION TOXICOLOGY RESEARCH INSTITUTE

INIS: 2000-04-12; ETDE: 1982-07-27

UF itri

UF *lovelace biomedical and environmental research institute*

\*BT1 us doe  
 RT new mexico

## INHIBITION

UF *extinguishment*  
 UF *growth inhibition*  
 UF *suppression*  
 NT1 sprout inhibition  
 RT catalysis  
 RT enzyme inhibitors  
 RT flames  
 RT inactivation  
 RT stabilization

## inhibitors (corrosion)

USE corrosion inhibitors

## inhibitors (enzyme)

INIS: 1978-08-30; ETDE: 1976-03-11

USE enzyme inhibitors

## INHOMOGENEOUS FIELDS

RT electric fields  
 RT electromagnetic fields  
 RT magnetic fields

## INHOMOGENEOUS PLASMA

BT1 plasma

## INHOURL EQUATION

1999-07-07

UF *nordheim equation*

BT1 equations  
 RT reactivity  
 RT reactor kinetics

## INHOURS

\*BT1 reactivity units

## INIS

1996-04-19

UF *international nuclear information system*

BT1 information systems  
 RT iaea

## initial reservoir pressure

INIS: 1986-07-09; ETDE: 1978-09-11

USE reservoir pressure

## INJECTION

BT1 intake  
 NT1 intramuscular injection  
 NT1 intraperitoneal injection  
 NT1 intravenous injection  
 NT1 subcutaneous injection  
 RT implants  
 RT radionuclide administration  
 RT therapy

## injection (beams)

USE beam injection

## injection (pellets)

INIS: 1988-11-16; ETDE: 2002-06-13

USE pellet injection

## injection fluids

INIS: 2000-04-12; ETDE: 1985-08-08

*For oil and gas wells.*

USE displacement fluids

## INJECTION WELLS

1991-10-22

*A well used for injecting fluids into underground strata.*

UF *input well*  
 BT1 wells  
 RT geothermal wells  
 RT reinjection

## INJURIES

UF *trauma*  
 UF *traumatic shock*  
 BT1 diseases  
 NT1 bone fractures  
 NT1 burns  
 NT2 flash burns  
 NT2 radiation burns  
 NT1 radiation injuries  
 NT2 osteoradionecrosis  
 NT2 radiation burns  
 NT2 radiodermatitis  
 NT1 wounds  
 RT accidents  
 RT first aid  
 RT health hazards  
 RT hematomas  
 RT safety  
 RT single intake

## INKS

1996-07-18

UF *india ink*  
 RT dyes

## INLAND WATERWAYS

UF *canals (waterways)*  
 BT1 surface waters  
 NT1 manivier canal  
 NT1 panama canal  
 NT1 suez canal  
 RT harbors  
 RT lakes  
 RT marinas  
 RT rivers  
 RT territorial waters  
 RT transport

## inlet event

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

## inner bremsstrahlung

USE internal bremsstrahlung

## inner mongolia

INIS: 2000-04-12; ETDE: 1979-12-10

USE china

## INNER-SHELL EXCITATION

INIS: 1987-11-02; ETDE: 1987-12-23

\*BT1 excitation  
 RT inner-shell ionization

## INNER-SHELL IONIZATION

INIS: 1976-07-06; ETDE: 1976-08-24

BT1 ionization  
 RT auger effect  
 RT autoionization  
 RT coulomb ionization  
 RT inner-shell excitation

## inns

INIS: 2000-04-12; ETDE: 1979-12-17

USE hotels

## INOCULATION

RT immune serums  
 RT immunity  
 RT vaccines  
 RT viruses

## INOR-8

1993-10-03

\*BT1 alloy-ni70mo17cr7fe5  
 RT inconel alloys

## INORGANIC ACIDS

(From August 1979 to March 1997 HETEROPOLY ACIDS was a valid ETDE descriptor.)

UF *acids (inorganic)*

UF heteropoly acids  
 UF mineral acids  
 UF polythionic acids  
 BT1 hydrogen compounds  
 BT1 inorganic compounds  
 NT1 boric acid  
 NT1 broensted acids  
 NT1 bromic acid  
 NT1 carbonic acid  
 NT1 chloric acid  
 NT1 chlorous acid  
 NT1 chromic acid  
 NT1 fluoroboric acid  
 NT1 hydrazoic acid  
 NT1 hydriodic acid  
 NT1 hydrobromic acid  
 NT1 hydrochloric acid  
 NT1 hydrocyanic acid  
 NT1 hydrofluoric acid  
 NT1 hypochlorous acid  
 NT1 hypofluorous acid  
 NT1 hypoiodous acid  
 NT1 hypophosphorous acid  
 NT1 iodic acid  
 NT1 lewis acids  
 NT1 molybdc acid  
 NT1 molybdophosphoric acid  
 NT1 nitric acid  
 NT1 nitrous acid  
 NT1 perchloric acid  
 NT1 periodic acid  
 NT1 phosphoric acid  
 NT1 phosphorous acid  
 NT1 silicic acid  
 NT1 sulfamic acid  
 NT1 sulfuric acid  
 NT1 sulfurous acid  
 NT1 telluric acid  
 NT1 tungstophosphoric acid  
 RT acid carbonates  
 RT acid sulfates  
 RT acid sulfites  
 RT acidification  
 RT anhydrides  
 RT ph value

**INORGANIC COMPOUNDS**

1986-07-10

For very general papers only. Use of a more specific terms recommended.

UF compounds (inorganic)

SF chemicals

NT1 inorganic acids  
 NT2 boric acid  
 NT2 broensted acids  
 NT2 bromic acid  
 NT2 carbonic acid  
 NT2 chloric acid  
 NT2 chlorous acid  
 NT2 chromic acid  
 NT2 fluoroboric acid  
 NT2 hydrazoic acid  
 NT2 hydriodic acid  
 NT2 hydrobromic acid  
 NT2 hydrochloric acid  
 NT2 hydrocyanic acid  
 NT2 hydrofluoric acid  
 NT2 hypochlorous acid  
 NT2 hypofluorous acid  
 NT2 hypoiodous acid  
 NT2 hypophosphorous acid  
 NT2 iodic acid  
 NT2 lewis acids  
 NT2 molybdc acid  
 NT2 molybdophosphoric acid  
 NT2 nitric acid  
 NT2 nitrous acid  
 NT2 perchloric acid  
 NT2 periodic acid

NT2 phosphoric acid  
 NT2 phosphorous acid  
 NT2 silicic acid  
 NT2 sulfamic acid  
 NT2 sulfuric acid  
 NT2 sulfurous acid  
 NT2 telluric acid  
 NT2 tungstophosphoric acid  
 RT chemical feedstocks

**INORGANIC ION EXCHANGERS**

UF permutit (inorganic)  
 \*BT1 ion exchange materials  
 NT1 bentonite  
 NT1 montmorillonite  
 NT1 mullite  
 NT1 vermiculite  
 NT1 zeolites  
 NT2 clinoptilolite  
 NT2 faujasite  
 NT2 heulandite  
 NT2 laumontite  
 NT2 mordenite  
 NT2 wairakite

**INORGANIC PHOSPHORS**

1999-08-23

BT1 phosphors  
 NT1 cadmium sulfides  
 NT1 cadmium tungstates  
 NT1 calcium tungstates  
 NT1 cesium iodides  
 NT1 lithium iodides  
 NT1 potassium iodides  
 NT1 sodium iodides  
 NT1 zinc sulfides  
 RT bismuth germanates  
 RT solid scintillation detectors

**INORGANIC POLYMERS**

BT1 polymers

**INOSINE**

\*BT1 nucleosides  
 \*BT1 purines  
 RT hypoxanthine

**INOSITOL**

UF i-inositol  
 \*BT1 inositols  
 \*BT1 lipotropic factors  
 RT phytic acid

**INOSITOLS**

\*BT1 monosaccharides  
 NT1 inositol  
 RT hydroxy compounds

**input-output**

INIS: 2000-04-12; ETDE: 1979-05-02

SEE material balance

**INPUT-OUTPUT ANALYSIS**

INIS: 1999-01-27; ETDE: 1978-04-06

A type of economic analysis.

(Until January 1999, this concept was indexed

by the broader term ECONOMIC

ANALYSIS.)

SF operations research

\*BT1 economic analysis

RT developing countries

RT economy

RT energy analysis

RT regional analysis

**input well**

INIS: 2000-04-12; ETDE: 1976-03-31

USE injection wells

**INR CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24

Institute of Nuclear Research, Academia Sinica, Shanghai.

UF institute of nuclear research (shanghai) cyclotron

UF shanghai inr cyclotron

\*BT1 isochronous cyclotrons

**ins cyclotron (tokyo)**

INIS: 1983-06-01; ETDE: 2002-06-13

USE tokyo ins cyclotron

**INSB SEMICONDUCTOR****DETECTORS**

INIS: 1988-04-15; ETDE: 1988-07-08

Indium antimonide semiconductor detectors.

UF indium antimonide detectors

\*BT1 semiconductor detectors

**INSECT DISPERSAL**

UF dispersal (insect)

RT behavior

RT insects

RT sterile insect release

RT sterile male technique

**INSECTICIDES**

BT1 pesticides

NT1 aldrin

NT1 ddt

NT1 dieldrin

NT1 kepone

NT1 lindane

NT1 malathion

NT1 parathion

RT insects

**INSECTS**

1996-07-08

UF caste (insects)

UF entomology

\*BT1 arthropods

NT1 coleoptera

NT2 beetles

NT3 boll weevil

NT3 tribolium

NT1 dictyoptera

NT2 cockroaches

NT1 diptera

NT2 flies

NT3 fruit flies

NT4 anastrepha

NT4 ceratitis capitata

NT4 dacus

NT5 dacus oleae

NT4 drosophila

NT3 glossina

NT3 hylemya antiqua

NT3 screwworm fly

NT2 mosquitoes

NT1 ephemeroptera

NT1 hemiptera

NT2 aphids

NT1 hymenoptera

NT2 ants

NT2 bees

NT2 wasps

NT1 lepidoptera

NT2 moths

NT3 bollworm

NT3 codling moth

NT3 lymantria dispar

NT3 rice stem borers

NT3 silkworm

NT1 orthoptera

NT2 grasshoppers

NT3 locusts

RT chemical attractants

RT chemoreceptors



RT disease vectors  
 RT genetic control  
 RT grain disinfestation  
 RT insect dispersal  
 RT insecticides  
 RT larvae  
 RT mass rearing  
 RT parasites  
 RT pest control  
 RT pest eradication  
 RT pheromone  
 RT pupae  
 RT radiodisinfestation  
 RT rearing  
 RT rickettsiae  
 RT sterile male technique

**INSOLATION**

1984-04-04

RT diffuse solar radiation  
 RT direct solar radiation  
 RT solar flux  
 RT solar radiation  
 RT solar simulators  
 RT sun charts

**INSPECTION**

(Prior to May 1996 SURVEILLANCE was a valid ETDE descriptor.)

UF control (inspection)  
 SF surveillance  
 NT1 in-service inspection  
 NT1 on-site inspection  
 RT accuracy  
 RT audits  
 RT calibration  
 RT evaluation  
 RT gesellschaft fuer anlagen- und reaktorsicherheit  
 RT industrial radiography  
 RT legal aspects  
 RT licensing  
 RT materials testing  
 RT nondestructive testing  
 RT performance testing  
 RT post-irradiation examination  
 RT preventive medicine  
 RT quality control  
 RT radiation monitoring  
 RT radiation protection  
 RT reactor maintenance  
 RT recommendations  
 RT safeguards  
 RT sampling  
 RT specifications  
 RT testing  
 RT verification

**inspector general (us doe)**

INIS: 1994-09-29; ETDE: 1980-06-06  
 USE us doe inspector general

**inst fiziki vysokikh ehnergij**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE ihep

**inst phys chem res rilac**

INIS: 1986-05-23; ETDE: 2002-06-13  
 USE rilac

**inst v kernph onder amsterdam**

INIS: 2000-02-08; ETDE: 1978-09-11  
 USE iko

**INSTABILITY**

NT1 combustion instability  
 NT1 pierce instability  
 NT1 plasma instability  
 NT2 absolute instabilities  
 NT2 convective instabilities  
 NT2 decay instability

NT2 explosive instability  
 NT2 gravitational instability  
 NT2 plasma macroinstabilities  
 NT3 ballooning instability  
 NT3 edge localized modes  
 NT3 fishbone instability  
 NT3 flute instability  
 NT3 helical instability  
 NT3 helmholtz instability  
 NT3 kink instability  
 NT3 parametric instabilities  
 NT3 sausage instability  
 NT3 tearing instability  
 NT3 tilting instability  
 NT3 trapped-particle instability  
 NT3 whistler instability  
 NT2 plasma microinstabilities  
 NT3 bump-in-tail instability  
 NT3 cyclotron instability  
 NT3 drift instability  
 NT3 hose instability  
 NT3 ion wave instability  
 NT3 loss cone instability  
 NT3 negative mass instability  
 NT3 two-stream instability  
 NT1 rayleigh-taylor instability  
 RT bifurcation  
 RT stability

**INSTABILITY GROWTH RATES**

RT plasma instability  
 RT time dependence

**INSTALLATION**

INIS: 1992-09-30; ETDE: 1976-05-13  
 RT construction

**installation sites**

INIS: 1976-12-08; ETDE: 2002-06-13  
 If appropriate use one of the specific types of facilities.  
 USE nuclear facilities

**INSTANTONS**

INIS: 1978-01-13; ETDE: 1977-11-29  
 Finite action solutions to Euclidean field equations, localized in time and space.  
 UF pseudoparticles  
 BT1 quasi particles  
 RT field equations  
 RT field theories  
 RT gauge invariance  
 RT higgs model  
 RT lattice field theory  
 RT merons  
 RT quantum chromodynamics  
 RT solitons  
 RT su groups  
 RT symmetry breaking  
 RT vacuum states  
 RT yang-mills theory

**institut fuer isotopen- und strahlenforschung leipzig**

INIS: 1986-05-23; ETDE: 2002-06-13  
 USE zfi leipzig

**institute for high energy physics**

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE ihep

**institute for nuclear studies cyclotron**

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE tokyo ins cyclotron

**institute for reactor safety**

INIS: 1977-09-06; ETDE: 1977-10-19  
 USE gesellschaft fuer anlagen- und reaktorsicherheit

**institute of nuclear research (shanghai) cyclotron**

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE inr cyclotron

**institute of physical and chemical research cyclotron**

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE ipcr cyclotron

**INSTITUTIONAL FACTORS**

INIS: 1999-03-01; ETDE: 1979-05-25  
 NT1 political aspects  
 NT1 socio-economic factors  
 RT government policies  
 RT institutional sector  
 RT public policy

**INSTITUTIONAL SECTOR**

INIS: 2000-04-12; ETDE: 1979-09-27  
 RT institutional factors  
 RT national government  
 RT state government

**instituto de asuntos nucleares r1**

1993-11-08  
 USE ian-r1 reactor

**instituto de energia atomica r1**

1993-11-08  
 USE iear-1 reactor

**instituto de energia atomica zpr**

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE iea-zpr reactor

**instituto engenhoria nuclear rio reactor**

1993-11-08  
 USE rien-1 reactor

**instruments (measuring)**

USE measuring instruments

**insulating limiters**

USE limiters

**INSULATING OILS**

INIS: 1999-03-01; ETDE: 1980-07-23  
 A high-quality oil whose high dielectric strength and high flash point allow it to be used in switches, circuit breakers, and transformers as an insulating and cooling medium.  
 UF transformer oils  
 \*BT1 oils  
 RT circuit breakers  
 RT dielectric materials  
 RT dielectric properties  
 RT electrical insulators  
 RT switches  
 RT transformers

**insulation (acoustic)**

INIS: 2000-04-12; ETDE: 1995-07-03  
 USE acoustic insulation

**insulation (electrical, by dielectric materials)**

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE electrical insulation

**insulation (electrical, by magnetic fields)**

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE magnetic insulation

**insulation (electrical)**

INIS: 2000-04-12; ETDE: 1977-06-02  
 USE electrical insulation

**insulation (magnetic)**

INIS: 2000-04-12; ETDE: 1980-11-08  
USE magnetic insulation

**insulation (thermal)**

USE thermal insulation

**insulators (electrical)**

USE electrical insulators

**INSULIN**

\*BT1 peptide hormones  
RT diabetes mellitus  
RT glucose  
RT metabolism  
RT pancreas

**INSURANCE**

UF health insurance  
UF insurance law  
UF marine insurance  
UF property insurance  
UF transport insurance  
NT1 accident insurance  
NT1 nuclear insurance  
RT financial security  
RT hazards  
RT legal aspects  
RT liabilities  
RT victims compensation

**insurance law**

INIS: 1990-12-15; ETDE: 2002-06-13  
(Prior to December 1990, this was a valid descriptor.)  
USE insurance  
USE legal aspects

**INTAKE**

NT1 chronic intake  
NT1 infusion  
NT1 ingestion  
NT1 inhalation  
NT1 injection  
NT2 intramuscular injection  
NT2 intraperitoneal injection  
NT2 intravenous injection  
NT2 subcutaneous injection  
NT1 oral administration  
NT1 rectal administration  
NT1 single intake  
RT annual limit of intake  
RT maximum permissible intake  
RT radionuclide administration  
RT radionuclide kinetics  
RT uptake

**INTAKE CANALS**

2000-04-12  
RT auxiliary water systems  
RT intake structures

**INTAKE STRUCTURES**

1996-05-14  
BT1 mechanical structures  
RT cooling systems  
RT impingement  
RT intake canals  
RT screens

**INTEGRAL CALCULUS**

UF residues (mathematical)  
BT1 mathematics  
RT poincare-bertrand formula

**INTEGRAL CROSS SECTIONS**

INIS: 1976-05-05; ETDE: 1976-06-07  
Cross sections integrated over all angles; a measure of the reaction probability, not of the angular distribution.  
BT1 cross sections  
RT excitation functions

RT nuclear reactions

**INTEGRAL DOSES**

\*BT1 radiation doses  
RT cuex  
RT maximum permissible exposure  
RT spatial dose distributions  
RT temporal dose distributions

**INTEGRAL EQUATIONS**

BT1 equations  
NT1 blankenbecler-sugar equations  
NT1 fredholm equation  
NT1 lippmann-schwinger equation  
NT1 quasipotential equation  
NT1 volta integral equations  
RT differential equations  
RT integrals  
RT kernels  
RT mathematics  
RT point kernels

**INTEGRAL PAC**

UF perturbed angular correlation (integral)  
\*BT1 perturbed angular correlation

**INTEGRAL TRANSFORMATIONS**

BT1 transformations  
NT1 fourier transformation  
NT1 hankel transform  
NT1 hilbert transformation  
NT1 laplace transformation  
NT1 mellin transform  
RT integrals  
RT mathematics

**INTEGRALS**

(From October 1975 till May 1996 SOMMERFELD INTEGRALS was a valid ETDE descriptor.)  
UF sommerfeld integrals  
NT1 action integral  
NT1 collision integrals  
NT1 path integrals  
NT2 feynman path integral  
NT1 resonance integrals  
NT1 talmi integrals  
RT integral equations  
RT integral transformations  
RT mathematics  
RT quadratures

**INTEGRATED CIRCUITS**

\*BT1 microelectronic circuits

**integrated community energy systems**

INIS: 2000-04-12; ETDE: 1977-06-30  
USE ices program

**INTEGRATED COOLING SYSTEMS**

\*BT1 reactor cooling systems

**INTEGRATED ENERGY UTILITY SYSTEMS**

INIS: 2000-04-12; ETDE: 2005-01-28  
(Prior to January 2005 IEUS was used for this concept.)  
UF ieus (integrated energy utility systems)  
BT1 energy systems  
NT1 modular integrated utility systems  
RT ices program  
RT public utilities  
RT total energy systems

**INTEGRATED IN-SITU PROCESS**

INIS: 2000-04-12; ETDE: 1981-10-24  
Multe Mineral Corp. Process for producing shale oil, raw nahcolite, soda ash, and alumina.  
BT1 modified in-situ processes

RT aluminium oxides  
RT nahcolite  
RT oil shales

**integrated utility systems**

INIS: 1982-12-03; ETDE: 1977-09-19  
USE total energy systems

**integrators (pulse)**

USE pulse integrators

**integrity (fuel)**

INIS: 1986-03-04; ETDE: 1985-03-26  
USE fuel integrity

**INTEGRO-DIFFERENTIAL EQUATIONS**

1995-09-06  
BT1 equations  
NT1 boltzmann equation

**intense neutron generator linac**

1996-07-18  
(Prior to March 1997 ING LINAC was used for this concept in ETDE.)  
USE linear accelerators  
USE neutron sources

**intensifiers (image)**

USE image intensifiers

**inter-governmental maritime consultative organization**

INIS: 2000-02-10; ETDE: 2002-06-13  
USE imo

**INTERACTING BOSON MODEL**

\*BT1 shell models  
RT boson expansion  
RT boson-fermion symmetry  
RT bosons  
RT nuclear structure

**INTERACTION RANGE**

UF long-range interactions  
UF short-range interactions  
BT1 distance  
RT interactions

**INTERACTIONS**

For elementary particles and radiations only.  
See also CONFIGURATION INTERACTION.

NT1 basic interactions  
NT2 electromagnetic interactions  
NT3 compton effect  
NT3 coulomb scattering  
NT3 electroproduction  
NT3 photon-hadron interactions  
NT4 photon-baryon interactions  
NT5 photon-hyperon interactions  
NT5 photon-nucleon interactions  
NT6 photon-neutron interactions  
NT6 photon-proton interactions  
NT4 photon-meson interactions  
NT3 photon-photon interactions  
NT3 photoproduction  
NT4 primakoff effect  
NT3 umklapp processes  
NT2 gravitational interactions  
NT2 strong interactions  
NT3 charge-exchange interactions  
NT3 peripheral collisions  
NT2 weak interactions  
NT3 fermi interactions  
NT3 leptonic decay  
NT1 configuration mixing  
NT1 exchange interactions  
NT1 final-state interactions  
NT1 finite-range interactions  
NT1 pair production  
NT2 internal pair production

**NT1** pairing interactions  
**NT1** particle interactions  
**NT2** annihilation  
**NT2** charged-current interactions  
**NT2** coherent production  
**NT2** electron-quark interactions  
**NT2** electroproduction  
**NT2** exclusive interactions  
**NT3** semi-exclusive interactions  
**NT2** gluon-gluon interactions  
**NT2** hadron-hadron interactions  
**NT3** baryon-baryon interactions  
**NT4** hyperon-hyperon interactions  
**NT4** nucleon-antinucleon interactions  
**NT5** antiproton-neutron interactions  
**NT5** neutron-antineutron interactions  
**NT5** proton-antineutron interactions  
**NT5** proton-antiproton interactions  
**NT4** nucleon-hyperon interactions  
**NT4** nucleon-nucleon interactions  
**NT5** neutron-neutron interactions  
**NT5** proton-nucleon interactions  
**NT6** proton-neutron interactions  
**NT6** proton-proton interactions  
**NT3** meson-baryon interactions  
**NT4** meson-hyperon interactions  
**NT5** kaon-hyperon interactions  
**NT5** pion-hyperon interactions  
**NT4** meson-nucleon interactions  
**NT5** kaon-nucleon interactions  
**NT6** kaon-neutron interactions  
**NT7** kaon minus-neutron interactions  
**NT7** kaon neutral-neutron interactions  
**NT7** kaon plus-neutron interactions  
**NT6** kaon-proton interactions  
**NT7** kaon minus-proton interactions  
**NT7** kaon neutral-proton interactions  
**NT7** kaon plus-proton interactions  
**NT5** pion-nucleon interactions  
**NT6** pion-neutron interactions  
**NT7** pion minus-neutron interactions  
**NT7** pion plus-neutron interactions  
**NT6** pion-proton interactions  
**NT7** pion minus-proton interactions  
**NT7** pion plus-proton interactions  
**NT3** meson-meson interactions  
**NT4** kaon-kaon interactions  
**NT4** pion-kaon interactions  
**NT4** pion-pion interactions  
**NT2** inclusive interactions  
**NT3** semi-inclusive interactions  
**NT2** incoherent production  
**NT2** lepton-hadron interactions  
**NT3** lepton-baryon interactions  
**NT4** lepton-nucleon interactions  
**NT5** deep inelastic scattering  
**NT5** electron-nucleon interactions  
**NT6** electron-neutron interactions  
**NT6** electron-proton interactions  
**NT5** lepton-neutron interactions  
**NT6** antilepton-neutron interactions  
**NT7** antineutrino-neutron interactions  
**NT5** lepton-proton interactions

**NT6** antilepton-proton interactions  
**NT7** antineutrino-proton interactions  
**NT5** muon-nucleon interactions  
**NT6** muon-neutron interactions  
**NT6** muon-proton interactions  
**NT5** neutrino-nucleon interactions  
**NT6** antineutrino-nucleon interactions  
**NT7** antineutrino-neutron interactions  
**NT7** antineutrino-proton interactions  
**NT6** neutrino-neutron interactions  
**NT7** antineutrino-neutron interactions  
**NT6** neutrino-proton interactions  
**NT7** antineutrino-proton interactions  
**NT3** lepton-meson interactions  
**NT4** electron-meson interactions  
**NT5** electron-pion interactions  
**NT4** muon-meson interactions  
**NT4** neutrino-meson interactions  
**NT2** lepton-lepton interactions  
**NT3** electron-electron interactions  
**NT3** electron-muon interactions  
**NT3** electron-positron interactions  
**NT3** muon-muon interactions  
**NT3** neutrino-electron interactions  
**NT4** antineutrino-electron interactions  
**NT3** neutrino-muon interactions  
**NT3** neutrino-neutrino interactions  
**NT3** positron-positron interactions  
**NT2** neutral-current interactions  
**NT2** photon-hadron interactions  
**NT3** photon-baryon interactions  
**NT4** photon-hyperon interactions  
**NT4** photon-nucleon interactions  
**NT5** photon-neutron interactions  
**NT5** photon-proton interactions  
**NT3** photon-meson interactions  
**NT2** photon-lepton interactions  
**NT3** photon-electron interactions  
**NT3** photon-muon interactions  
**NT3** photon-neutrino interactions  
**NT2** photon-photon interactions  
**NT2** photoproduction  
**NT3** primakoff effect  
**NT2** quark-antiquark interactions  
**NT2** quark-gluon interactions  
**NT2** quark-hadron interactions  
**NT2** quark-quark interactions  
**NT1** residual interactions  
**RT** abc effect  
**RT** beam luminosity  
**RT** capture  
**RT** capture-to-fission ratio  
**RT** colliding beams  
**RT** collisions  
**RT** coupling  
**RT** decay  
**RT** effective range theory  
**RT** interaction range  
**RT** lorentz force  
**RT** nuclear molecules  
**RT** nucleon-nucleon potential  
**RT** pomeranchuk theorem  
**RT** scattering  
**RT** selection rules  
**RT** threshold energy  
**RT** transverse momentum  
**RT** wolfenstein parameters

## INTERACTIVE DISPLAY DEVICES

**UF** interactive graphics  
**\*BT1** display devices

**RT** computer graphics

## interactive graphics

**USE** interactive display devices

## INTERAGENCY COOPERATION

*INIS: 1994-06-27; ETDE: 1980-08-25*

**BT1** cooperation

## INTERATOMIC DISTANCES

**BT1** distance

**RT** molecular structure

## INTERATOMIC FORCES

**RT** binding energy

**RT** buckingham potential

**RT** lennard-jones potential

**RT** morse potential

**RT** potentials

## intercalates

*INIS: 2000-04-12; ETDE: 1977-08-09*

**USE** clathrates

## INTERCEPTION

*INIS: 2000-04-12; ETDE: 1984-12-10*

**RT** acid rain

**RT** atmospheric precipitations

**RT** evaporation

**RT** forests

**RT** plants

**RT** rain water

**RT** runoff

**RT** security

**RT** throughfall

**RT** water

## interchange instability

**USE** flute instability

## INTERCHANGEABILITY

*INIS: 1993-02-18; ETDE: 1977-09-19*

*Ability to substitute one energy source, fuel or material for another.*

**RT** compatibility

**RT** energy sources

**RT** fuel substitution

**RT** fuels

**RT** material substitution

**RT** materials

**RT** resource conservation

## INTERCONNECTED POWER SYSTEMS

*INIS: 1992-03-17; ETDE: 1979-05-03*

*A system of two or more individual power systems normally operating with interconnecting tie lines enabling each system to draw on the other's reserves in time of need or for economic reasons.*

**UF** power pools

**\*BT1** power systems

**RT** power factor

**RT** power generation

**RT** power pooling

**RT** power transmission

**RT** sellback

## intercrystalline corrosion

**USE** intergranular corrosion

## INTEREST GROUPS

*INIS: 1982-12-03; ETDE: 1980-12-08*

*For groups formed to further a particular interest, e.g. antimuclear groups, industry groups.*

**UF** antimuclear groups

**UF** lobbies

**UF** pressure groups

**SF** adversaries

**RT** consumer protection

**RT** human intrusion

- RT human populations  
 RT intervenors  
 RT minority groups

**INTEREST RATE**

- INIS: 2000-04-12; ETDE: 1978-06-14  
 UF discount rate  
 RT charges  
 RT debt collection  
 RT financing  
 RT investment

**INTERFACES**

- Not in the sense of EQUIPMENT  
 INTERFACES.  
 NTI sediment-water interfaces  
 RT surfaces

**interfaces (equipment)**

- USE equipment interfaces

**interfacial tension**

- INIS: 2000-04-12; ETDE: 1980-11-25  
 SEE surface tension

**INTERFERENCE**

- RT radio noise  
 RT wave propagation

**INTERFERING ELEMENTS**

- RT impurities

**INTERFEROMETERS**

- UF vlb systems  
 BT1 measuring instruments  
 NTI fabry-perot interferometer  
 NTI mach-zehnder interferometer  
 NTI michelson interferometer  
 RT interferometry  
 RT radio telescopes  
 RT spectrometers  
 RT squid devices

**INTERFEROMETRY**

- RT interferometers

**INTERFERON**

- 1999-09-08  
 A protein (lymphokine) released by cells in response to virus infection. When taken up by other cells, interferon inhibits the replication of viruses within them.  
 \*BT1 lymphokines  
 RT immunity  
 RT viruses

**INTERGALACTIC SPACE**

- BT1 space  
 RT nonluminous matter  
 RT universe

**INTERGOVERNMENTAL COOPERATION**

- INIS: 1985-04-22; ETDE: 1979-12-17  
 Limited to cooperation between the national government and the government of one or more of the country's administrative subdivisions, or between the governments of some of the subdivisions. Not for INTERNATIONAL COOPERATION.  
 BT1 cooperation  
 RT compact commissions

**INTERGRANULAR CORROSION**

- UF intercrystalline corrosion  
 \*BT1 corrosion  
 RT grain boundaries

**interim storage**

- INIS: 1982-12-06; ETDE: 2002-06-13  
 USE waste storage

**INTERKOSMOS SATELLITES**

- BT1 satellites  
 RT kosmos satellites  
 RT proton satellites

**INTERLABORATORY COMPARISONS**

- INIS: 1982-08-27; ETDE: 1982-09-10  
 RT calibration standards  
 RT comparative evaluations  
 RT cooperation  
 RT coordinated research programs

**interleukins**

- 1995-07-03  
 USE lymphokines

**INTERLOCKS**

- 1986-05-23  
 RT control systems  
 RT reactor control systems  
 RT switches

**INTERMEDIATE BOSONS**

- UF w boson  
 BT1 bosons  
 BT1 elementary particles  
 NT1 intermediate vector bosons  
 NT2 w minus bosons  
 NT2 w plus bosons  
 NT2 z neutral bosons

**INTERMEDIATE BTU GAS**

- 1992-05-22  
 250 to 900 btu per cubic foot.  
 UF gobar gas  
 \*BT1 fuel gas  
 NT1 carburetted water gas  
 NT1 town gas  
 NT1 water gas  
 RT syngas process

**INTERMEDIATE COUPLING**

- BT1 coupling  
 NT1 j-j coupling  
 NT1 l-s coupling  
 RT tomonaga approximation

**intermediate coupling approximation**

- USE tomonaga approximation

**intermediate image spectrometer**

- USE magnetic lens spectrometers

**INTERMEDIATE INFRARED RADIATION**

- INIS: 1976-05-05; ETDE: 1976-06-07  
 Wave length range 2.5-50 microns.  
 \*BT1 infrared radiation

**INTERMEDIATE-LEVEL RADIOACTIVE WASTES**

- INIS: 1978-05-19; ETDE: 1978-01-23  
 Wastes containing from  $5 \times 10 \exp(-5)$  to 100 microcuries/milliliter of radioactivity.  
 UF medium-level wastes  
 \*BT1 radioactive wastes  
 RT bohunice radioactive waste processing center  
 RT high-level radioactive wastes  
 RT konrad ore mine  
 RT low-level radioactive wastes  
 RT morsleben salt mine

**INTERMEDIATE MASS NUCLEI**

- 1998-01-27  
 For nuclei with mass 41-180.  
 BT1 nuclei  
 NT1 aluminium 41  
 NT1 aluminium 42  
 NT1 antimony 103  
 NT1 antimony 104

- NT1 antimony 105  
 NT1 antimony 106  
 NT1 antimony 107  
 NT1 antimony 108  
 NT1 antimony 109  
 NT1 antimony 110  
 NT1 antimony 111  
 NT1 antimony 112  
 NT1 antimony 113  
 NT1 antimony 114  
 NT1 antimony 115  
 NT1 antimony 116  
 NT1 antimony 117  
 NT1 antimony 118  
 NT1 antimony 119  
 NT1 antimony 120  
 NT1 antimony 121  
 NT1 antimony 122  
 NT1 antimony 123  
 NT1 antimony 124  
 NT1 antimony 125  
 NT1 antimony 126  
 NT1 antimony 127  
 NT1 antimony 128  
 NT1 antimony 129  
 NT1 antimony 130  
 NT1 antimony 131  
 NT1 antimony 132  
 NT1 antimony 133  
 NT1 antimony 134  
 NT1 antimony 135  
 NT1 antimony 136  
 NT1 antimony 137  
 NT1 antimony 138  
 NT1 antimony 139  
 NT1 argon 41  
 NT1 argon 42  
 NT1 argon 43  
 NT1 argon 44  
 NT1 argon 45  
 NT1 argon 46  
 NT1 argon 47  
 NT1 argon 48  
 NT1 argon 49  
 NT1 argon 50  
 NT1 argon 51  
 NT1 argon 52  
 NT1 argon 53  
 NT1 arsenic 60  
 NT1 arsenic 61  
 NT1 arsenic 62  
 NT1 arsenic 63  
 NT1 arsenic 64  
 NT1 arsenic 65  
 NT1 arsenic 66  
 NT1 arsenic 67  
 NT1 arsenic 68  
 NT1 arsenic 69  
 NT1 arsenic 70  
 NT1 arsenic 71  
 NT1 arsenic 72  
 NT1 arsenic 73  
 NT1 arsenic 74  
 NT1 arsenic 75  
 NT1 arsenic 76  
 NT1 arsenic 77  
 NT1 arsenic 78  
 NT1 arsenic 79  
 NT1 arsenic 80  
 NT1 arsenic 81  
 NT1 arsenic 82  
 NT1 arsenic 83  
 NT1 arsenic 84  
 NT1 arsenic 85  
 NT1 arsenic 86  
 NT1 arsenic 87  
 NT1 arsenic 88  
 NT1 arsenic 89  
 NT1 arsenic 90

NT1 arsenic 91  
 NT1 arsenic 92  
 NT1 barium 114  
 NT1 barium 115  
 NT1 barium 116  
 NT1 barium 117  
 NT1 barium 118  
 NT1 barium 119  
 NT1 barium 120  
 NT1 barium 121  
 NT1 barium 122  
 NT1 barium 123  
 NT1 barium 124  
 NT1 barium 125  
 NT1 barium 126  
 NT1 barium 127  
 NT1 barium 128  
 NT1 barium 129  
 NT1 barium 130  
 NT1 barium 131  
 NT1 barium 132  
 NT1 barium 133  
 NT1 barium 134  
 NT1 barium 135  
 NT1 barium 136  
 NT1 barium 137  
 NT1 barium 138  
 NT1 barium 139  
 NT1 barium 140  
 NT1 barium 141  
 NT1 barium 142  
 NT1 barium 143  
 NT1 barium 144  
 NT1 barium 145  
 NT1 barium 146  
 NT1 barium 147  
 NT1 barium 148  
 NT1 barium 149  
 NT1 barium 150  
 NT1 barium 151  
 NT1 barium 152  
 NT1 barium 153  
 NT1 bromine 67  
 NT1 bromine 68  
 NT1 bromine 69  
 NT1 bromine 70  
 NT1 bromine 71  
 NT1 bromine 72  
 NT1 bromine 73  
 NT1 bromine 74  
 NT1 bromine 75  
 NT1 bromine 76  
 NT1 bromine 77  
 NT1 bromine 78  
 NT1 bromine 79  
 NT1 bromine 80  
 NT1 bromine 81  
 NT1 bromine 82  
 NT1 bromine 83  
 NT1 bromine 84  
 NT1 bromine 85  
 NT1 bromine 86  
 NT1 bromine 87  
 NT1 bromine 88  
 NT1 bromine 89  
 NT1 bromine 90  
 NT1 bromine 91  
 NT1 bromine 92  
 NT1 bromine 93  
 NT1 bromine 94  
 NT1 bromine 95  
 NT1 bromine 96  
 NT1 bromine 97  
 NT1 cadmium 100  
 NT1 cadmium 101  
 NT1 cadmium 102  
 NT1 cadmium 103  
 NT1 cadmium 104  
 NT1 cadmium 105

NT1 cadmium 106  
 NT1 cadmium 107  
 NT1 cadmium 108  
 NT1 cadmium 109  
 NT1 cadmium 110  
 NT1 cadmium 111  
 NT1 cadmium 112  
 NT1 cadmium 113  
 NT1 cadmium 114  
 NT1 cadmium 115  
 NT1 cadmium 116  
 NT1 cadmium 117  
 NT1 cadmium 118  
 NT1 cadmium 119  
 NT1 cadmium 120  
 NT1 cadmium 121  
 NT1 cadmium 122  
 NT1 cadmium 123  
 NT1 cadmium 124  
 NT1 cadmium 125  
 NT1 cadmium 126  
 NT1 cadmium 127  
 NT1 cadmium 128  
 NT1 cadmium 129  
 NT1 cadmium 130  
 NT1 cadmium 131  
 NT1 cadmium 132  
 NT1 cadmium 95  
 NT1 cadmium 96  
 NT1 cadmium 97  
 NT1 cadmium 98  
 NT1 cadmium 99  
 NT1 calcium 41  
 NT1 calcium 42  
 NT1 calcium 43  
 NT1 calcium 44  
 NT1 calcium 45  
 NT1 calcium 46  
 NT1 calcium 47  
 NT1 calcium 48  
 NT1 calcium 49  
 NT1 calcium 50  
 NT1 calcium 51  
 NT1 calcium 52  
 NT1 calcium 53  
 NT1 calcium 54  
 NT1 calcium 55  
 NT1 calcium 56  
 NT1 calcium 57  
 NT1 calcium 58  
 NT1 calcium 60  
 NT1 cesium 112  
 NT1 cesium 113  
 NT1 cesium 114  
 NT1 cesium 115  
 NT1 cesium 116  
 NT1 cesium 117  
 NT1 cesium 118  
 NT1 cesium 119  
 NT1 cesium 120  
 NT1 cesium 121  
 NT1 cesium 122  
 NT1 cesium 123  
 NT1 cesium 124  
 NT1 cesium 125  
 NT1 cesium 126  
 NT1 cesium 127  
 NT1 cesium 128  
 NT1 cesium 129  
 NT1 cesium 130  
 NT1 cesium 131  
 NT1 cesium 132  
 NT1 cesium 133  
 NT1 cesium 134  
 NT1 cesium 135  
 NT1 cesium 136  
 NT1 cesium 137  
 NT1 cesium 138  
 NT1 cesium 139

NT1 cesium 140  
 NT1 cesium 141  
 NT1 cesium 142  
 NT1 cesium 143  
 NT1 cesium 144  
 NT1 cesium 145  
 NT1 cesium 146  
 NT1 cesium 147  
 NT1 cesium 148  
 NT1 cesium 149  
 NT1 cesium 150  
 NT1 cesium 151  
 NT1 chlorine 41  
 NT1 chlorine 42  
 NT1 chlorine 43  
 NT1 chlorine 44  
 NT1 chlorine 45  
 NT1 chlorine 46  
 NT1 chlorine 47  
 NT1 chlorine 48  
 NT1 chlorine 49  
 NT1 chlorine 50  
 NT1 chlorine 51  
 NT1 chromium 42  
 NT1 chromium 43  
 NT1 chromium 44  
 NT1 chromium 45  
 NT1 chromium 46  
 NT1 chromium 47  
 NT1 chromium 48  
 NT1 chromium 49  
 NT1 chromium 50  
 NT1 chromium 51  
 NT1 chromium 52  
 NT1 chromium 53  
 NT1 chromium 54  
 NT1 chromium 55  
 NT1 chromium 56  
 NT1 chromium 57  
 NT1 chromium 58  
 NT1 chromium 59  
 NT1 chromium 60  
 NT1 chromium 61  
 NT1 chromium 62  
 NT1 chromium 63  
 NT1 chromium 64  
 NT1 chromium 65  
 NT1 chromium 66  
 NT1 chromium 67  
 NT1 cobalt 49  
 NT1 cobalt 50  
 NT1 cobalt 51  
 NT1 cobalt 52  
 NT1 cobalt 53  
 NT1 cobalt 54  
 NT1 cobalt 55  
 NT1 cobalt 56  
 NT1 cobalt 57  
 NT1 cobalt 58  
 NT1 cobalt 59  
 NT1 cobalt 60  
 NT1 cobalt 61  
 NT1 cobalt 62  
 NT1 cobalt 63  
 NT1 cobalt 64  
 NT1 cobalt 65  
 NT1 cobalt 66  
 NT1 cobalt 67  
 NT1 cobalt 68  
 NT1 cobalt 69  
 NT1 cobalt 70  
 NT1 cobalt 71  
 NT1 cobalt 72  
 NT1 cobalt 73  
 NT1 cobalt 74  
 NT1 cobalt 75  
 NT1 copper 52  
 NT1 copper 53  
 NT1 copper 54

---

NT1	copper 55	NT1	germanium 79	NT1	indium 128
NT1	copper 56	NT1	germanium 80	NT1	indium 129
NT1	copper 57	NT1	germanium 81	NT1	indium 130
NT1	copper 58	NT1	germanium 82	NT1	indium 131
NT1	copper 59	NT1	germanium 83	NT1	indium 132
NT1	copper 60	NT1	germanium 84	NT1	indium 133
NT1	copper 61	NT1	germanium 85	NT1	indium 134
NT1	copper 62	NT1	germanium 86	NT1	indium 135
NT1	copper 63	NT1	germanium 87	NT1	indium 97
NT1	copper 64	NT1	germanium 88	NT1	indium 98
NT1	copper 65	NT1	germanium 89	NT1	indium 99
NT1	copper 66	NT1	gold 169	NT1	iodine 108
NT1	copper 67	NT1	gold 170	NT1	iodine 109
NT1	copper 68	NT1	gold 171	NT1	iodine 110
NT1	copper 69	NT1	gold 172	NT1	iodine 111
NT1	copper 70	NT1	gold 173	NT1	iodine 112
NT1	copper 71	NT1	gold 174	NT1	iodine 113
NT1	copper 72	NT1	gold 175	NT1	iodine 114
NT1	copper 73	NT1	gold 176	NT1	iodine 115
NT1	copper 74	NT1	gold 177	NT1	iodine 116
NT1	copper 75	NT1	gold 178	NT1	iodine 117
NT1	copper 76	NT1	gold 179	NT1	iodine 118
NT1	copper 77	NT1	gold 180	NT1	iodine 119
NT1	copper 78	NT1	hafnium 153	NT1	iodine 120
NT1	copper 79	NT1	hafnium 154	NT1	iodine 121
NT1	copper 80	NT1	hafnium 155	NT1	iodine 122
NT1	erbium 146	NT1	hafnium 156	NT1	iodine 123
NT1	gallium 56	NT1	hafnium 157	NT1	iodine 124
NT1	gallium 57	NT1	hafnium 158	NT1	iodine 125
NT1	gallium 58	NT1	hafnium 159	NT1	iodine 126
NT1	gallium 59	NT1	hafnium 160	NT1	iodine 127
NT1	gallium 60	NT1	hafnium 161	NT1	iodine 128
NT1	gallium 61	NT1	hafnium 162	NT1	iodine 129
NT1	gallium 62	NT1	hafnium 163	NT1	iodine 130
NT1	gallium 63	NT1	hafnium 164	NT1	iodine 131
NT1	gallium 64	NT1	hafnium 165	NT1	iodine 132
NT1	gallium 65	NT1	hafnium 166	NT1	iodine 133
NT1	gallium 66	NT1	hafnium 167	NT1	iodine 134
NT1	gallium 67	NT1	hafnium 168	NT1	iodine 135
NT1	gallium 68	NT1	hafnium 169	NT1	iodine 136
NT1	gallium 69	NT1	hafnium 170	NT1	iodine 137
NT1	gallium 70	NT1	hafnium 171	NT1	iodine 138
NT1	gallium 71	NT1	hafnium 172	NT1	iodine 139
NT1	gallium 72	NT1	hafnium 173	NT1	iodine 140
NT1	gallium 73	NT1	hafnium 174	NT1	iodine 141
NT1	gallium 74	NT1	hafnium 175	NT1	iodine 142
NT1	gallium 75	NT1	hafnium 176	NT1	iodine 143
NT1	gallium 76	NT1	hafnium 177	NT1	iodine 144
NT1	gallium 77	NT1	hafnium 178	NT1	iridium 164
NT1	gallium 78	NT1	hafnium 179	NT1	iridium 165
NT1	gallium 79	NT1	hafnium 180	NT1	iridium 166
NT1	gallium 80	NT1	indium 100	NT1	iridium 167
NT1	gallium 81	NT1	indium 101	NT1	iridium 168
NT1	gallium 82	NT1	indium 102	NT1	iridium 169
NT1	gallium 83	NT1	indium 103	NT1	iridium 170
NT1	gallium 84	NT1	indium 104	NT1	iridium 171
NT1	gallium 85	NT1	indium 105	NT1	iridium 172
NT1	gallium 86	NT1	indium 106	NT1	iridium 173
NT1	germanium 58	NT1	indium 107	NT1	iridium 174
NT1	germanium 59	NT1	indium 108	NT1	iridium 175
NT1	germanium 60	NT1	indium 109	NT1	iridium 176
NT1	germanium 61	NT1	indium 110	NT1	iridium 177
NT1	germanium 62	NT1	indium 111	NT1	iridium 178
NT1	germanium 63	NT1	indium 112	NT1	iridium 179
NT1	germanium 64	NT1	indium 113	NT1	iridium 180
NT1	germanium 65	NT1	indium 114	NT1	iron 45
NT1	germanium 66	NT1	indium 115	NT1	iron 46
NT1	germanium 67	NT1	indium 116	NT1	iron 47
NT1	germanium 68	NT1	indium 117	NT1	iron 48
NT1	germanium 69	NT1	indium 118	NT1	iron 49
NT1	germanium 70	NT1	indium 119	NT1	iron 50
NT1	germanium 71	NT1	indium 120	NT1	iron 51
NT1	germanium 72	NT1	indium 121	NT1	iron 52
NT1	germanium 73	NT1	indium 122	NT1	iron 53
NT1	germanium 74	NT1	indium 123	NT1	iron 54
NT1	germanium 75	NT1	indium 124	NT1	iron 55
NT1	germanium 76	NT1	indium 125	NT1	iron 56
NT1	germanium 77	NT1	indium 126	NT1	iron 57
NT1	germanium 78	NT1	indium 127	NT1	iron 58

NT1 iron 59	NT1 mercury 175	NT1 niobium 109
NT1 iron 60	NT1 mercury 176	NT1 niobium 110
NT1 iron 61	NT1 mercury 177	NT1 niobium 111
NT1 iron 62	NT1 mercury 178	NT1 niobium 112
NT1 iron 63	NT1 mercury 179	NT1 niobium 113
NT1 iron 64	NT1 mercury 180	NT1 niobium 81
NT1 iron 65	NT1 molybdenum 100	NT1 niobium 82
NT1 iron 66	NT1 molybdenum 101	NT1 niobium 83
NT1 iron 67	NT1 molybdenum 102	NT1 niobium 84
NT1 iron 68	NT1 molybdenum 103	NT1 niobium 85
NT1 iron 69	NT1 molybdenum 104	NT1 niobium 86
NT1 iron 70	NT1 molybdenum 105	NT1 niobium 87
NT1 iron 71	NT1 molybdenum 106	NT1 niobium 88
NT1 iron 72	NT1 molybdenum 107	NT1 niobium 89
NT1 krypton 100	NT1 molybdenum 108	NT1 niobium 90
NT1 krypton 69	NT1 molybdenum 109	NT1 niobium 91
NT1 krypton 70	NT1 molybdenum 110	NT1 niobium 92
NT1 krypton 71	NT1 molybdenum 111	NT1 niobium 93
NT1 krypton 72	NT1 molybdenum 112	NT1 niobium 94
NT1 krypton 73	NT1 molybdenum 113	NT1 niobium 95
NT1 krypton 74	NT1 molybdenum 114	NT1 niobium 96
NT1 krypton 75	NT1 molybdenum 115	NT1 niobium 97
NT1 krypton 76	NT1 molybdenum 83	NT1 niobium 98
NT1 krypton 77	NT1 molybdenum 84	NT1 niobium 99
NT1 krypton 78	NT1 molybdenum 85	NT1 osmium 162
NT1 krypton 79	NT1 molybdenum 86	NT1 osmium 163
NT1 krypton 80	NT1 molybdenum 87	NT1 osmium 164
NT1 krypton 81	NT1 molybdenum 88	NT1 osmium 165
NT1 krypton 82	NT1 molybdenum 89	NT1 osmium 166
NT1 krypton 83	NT1 molybdenum 90	NT1 osmium 167
NT1 krypton 84	NT1 molybdenum 91	NT1 osmium 168
NT1 krypton 85	NT1 molybdenum 92	NT1 osmium 169
NT1 krypton 86	NT1 molybdenum 93	NT1 osmium 170
NT1 krypton 87	NT1 molybdenum 94	NT1 osmium 171
NT1 krypton 88	NT1 molybdenum 95	NT1 osmium 172
NT1 krypton 89	NT1 molybdenum 96	NT1 osmium 173
NT1 krypton 90	NT1 molybdenum 97	NT1 osmium 174
NT1 krypton 91	NT1 molybdenum 98	NT1 osmium 175
NT1 krypton 92	NT1 molybdenum 99	NT1 osmium 176
NT1 krypton 93	NT1 nickel 48	NT1 osmium 177
NT1 krypton 94	NT1 nickel 49	NT1 osmium 178
NT1 krypton 95	NT1 nickel 50	NT1 osmium 179
NT1 krypton 96	NT1 nickel 51	NT1 osmium 180
NT1 krypton 97	NT1 nickel 52	NT1 palladium 100
NT1 krypton 98	NT1 nickel 53	NT1 palladium 101
NT1 krypton 99	NT1 nickel 54	NT1 palladium 102
NT1 lead 178	NT1 nickel 55	NT1 palladium 103
NT1 lead 179	NT1 nickel 56	NT1 palladium 104
NT1 lead 180	NT1 nickel 57	NT1 palladium 105
NT1 manganese 44	NT1 nickel 58	NT1 palladium 106
NT1 manganese 45	NT1 nickel 59	NT1 palladium 107
NT1 manganese 46	NT1 nickel 60	NT1 palladium 108
NT1 manganese 47	NT1 nickel 61	NT1 palladium 109
NT1 manganese 48	NT1 nickel 62	NT1 palladium 110
NT1 manganese 49	NT1 nickel 63	NT1 palladium 111
NT1 manganese 50	NT1 nickel 64	NT1 palladium 112
NT1 manganese 51	NT1 nickel 65	NT1 palladium 113
NT1 manganese 52	NT1 nickel 66	NT1 palladium 114
NT1 manganese 53	NT1 nickel 67	NT1 palladium 115
NT1 manganese 54	NT1 nickel 68	NT1 palladium 116
NT1 manganese 55	NT1 nickel 69	NT1 palladium 117
NT1 manganese 56	NT1 nickel 70	NT1 palladium 118
NT1 manganese 57	NT1 nickel 71	NT1 palladium 119
NT1 manganese 58	NT1 nickel 72	NT1 palladium 120
NT1 manganese 59	NT1 nickel 73	NT1 palladium 121
NT1 manganese 60	NT1 nickel 74	NT1 palladium 122
NT1 manganese 61	NT1 nickel 75	NT1 palladium 123
NT1 manganese 62	NT1 nickel 76	NT1 palladium 124
NT1 manganese 63	NT1 nickel 77	NT1 palladium 91
NT1 manganese 64	NT1 nickel 78	NT1 palladium 92
NT1 manganese 65	NT1 niobium 100	NT1 palladium 93
NT1 manganese 66	NT1 niobium 101	NT1 palladium 94
NT1 manganese 67	NT1 niobium 102	NT1 palladium 95
NT1 manganese 68	NT1 niobium 103	NT1 palladium 96
NT1 manganese 69	NT1 niobium 104	NT1 palladium 97
NT1 mercury 171	NT1 niobium 105	NT1 palladium 98
NT1 mercury 172	NT1 niobium 106	NT1 palladium 99
NT1 mercury 173	NT1 niobium 107	NT1 phosphorus 41
NT1 mercury 174	NT1 niobium 108	NT1 phosphorus 42

NT1 phosphorus 43  
NT1 phosphorus 44  
NT1 phosphorus 45  
NT1 phosphorus 46  
NT1 platinum 168  
NT1 platinum 169  
NT1 platinum 170  
NT1 platinum 171  
NT1 platinum 172  
NT1 platinum 173  
NT1 platinum 174  
NT1 platinum 175  
NT1 platinum 176  
NT1 platinum 177  
NT1 platinum 178  
NT1 platinum 179  
NT1 platinum 180  
NT1 potassium 41  
NT1 potassium 42  
NT1 potassium 43  
NT1 potassium 44  
NT1 potassium 45  
NT1 potassium 46  
NT1 potassium 47  
NT1 potassium 48  
NT1 potassium 49  
NT1 potassium 50  
NT1 potassium 51  
NT1 potassium 52  
NT1 potassium 53  
NT1 potassium 54  
NT1 potassium 55  
NT1 rare earth nuclei  
NT2 cerium 119  
NT2 cerium 120  
NT2 cerium 121  
NT2 cerium 122  
NT2 cerium 123  
NT2 cerium 124  
NT2 cerium 125  
NT2 cerium 126  
NT2 cerium 127  
NT2 cerium 128  
NT2 cerium 129  
NT2 cerium 130  
NT2 cerium 131  
NT2 cerium 132  
NT2 cerium 133  
NT2 cerium 134  
NT2 cerium 135  
NT2 cerium 136  
NT2 cerium 137  
NT2 cerium 138  
NT2 cerium 139  
NT2 cerium 140  
NT2 cerium 141  
NT2 cerium 142  
NT2 cerium 143  
NT2 cerium 144  
NT2 cerium 145  
NT2 cerium 146  
NT2 cerium 147  
NT2 cerium 148  
NT2 cerium 149  
NT2 cerium 150  
NT2 cerium 151  
NT2 cerium 152  
NT2 cerium 153  
NT2 cerium 154  
NT2 cerium 155  
NT2 cerium 156  
NT2 cerium 157  
NT2 dysprosium 138  
NT2 dysprosium 139  
NT2 dysprosium 140  
NT2 dysprosium 141  
NT2 dysprosium 142  
NT2 dysprosium 143  
NT2 dysprosium 144

NT2 dysprosium 145  
NT2 dysprosium 146  
NT2 dysprosium 147  
NT2 dysprosium 148  
NT2 dysprosium 149  
NT2 dysprosium 150  
NT2 dysprosium 151  
NT2 dysprosium 152  
NT2 dysprosium 153  
NT2 dysprosium 154  
NT2 dysprosium 155  
NT2 dysprosium 156  
NT2 dysprosium 157  
NT2 dysprosium 158  
NT2 dysprosium 159  
NT2 dysprosium 160  
NT2 dysprosium 161  
NT2 dysprosium 162  
NT2 dysprosium 163  
NT2 dysprosium 164  
NT2 dysprosium 165  
NT2 dysprosium 166  
NT2 dysprosium 167  
NT2 dysprosium 168  
NT2 dysprosium 169  
NT2 dysprosium 170  
NT2 dysprosium 171  
NT2 dysprosium 172  
NT2 dysprosium 173  
NT2 erbium 143  
NT2 erbium 144  
NT2 erbium 145  
NT2 erbium 147  
NT2 erbium 148  
NT2 erbium 149  
NT2 erbium 150  
NT2 erbium 151  
NT2 erbium 152  
NT2 erbium 153  
NT2 erbium 154  
NT2 erbium 155  
NT2 erbium 156  
NT2 erbium 157  
NT2 erbium 158  
NT2 erbium 159  
NT2 erbium 160  
NT2 erbium 161  
NT2 erbium 162  
NT2 erbium 163  
NT2 erbium 164  
NT2 erbium 165  
NT2 erbium 166  
NT2 erbium 167  
NT2 erbium 168  
NT2 erbium 169  
NT2 erbium 170  
NT2 erbium 171  
NT2 erbium 172  
NT2 erbium 173  
NT2 erbium 174  
NT2 erbium 175  
NT2 erbium 176  
NT2 erbium 177  
NT2 europium 130  
NT2 europium 131  
NT2 europium 132  
NT2 europium 133  
NT2 europium 134  
NT2 europium 135  
NT2 europium 136  
NT2 europium 137  
NT2 europium 138  
NT2 europium 139  
NT2 europium 140  
NT2 europium 141  
NT2 europium 142  
NT2 europium 143  
NT2 europium 144  
NT2 europium 145

NT2 europium 146  
NT2 europium 147  
NT2 europium 148  
NT2 europium 149  
NT2 europium 150  
NT2 europium 151  
NT2 europium 152  
NT2 europium 153  
NT2 europium 154  
NT2 europium 155  
NT2 europium 156  
NT2 europium 157  
NT2 europium 158  
NT2 europium 159  
NT2 europium 160  
NT2 europium 161  
NT2 europium 162  
NT2 europium 163  
NT2 europium 164  
NT2 europium 165  
NT2 europium 166  
NT2 europium 167  
NT2 gadolinium 134  
NT2 gadolinium 135  
NT2 gadolinium 136  
NT2 gadolinium 137  
NT2 gadolinium 138  
NT2 gadolinium 139  
NT2 gadolinium 140  
NT2 gadolinium 141  
NT2 gadolinium 142  
NT2 gadolinium 143  
NT2 gadolinium 144  
NT2 gadolinium 145  
NT2 gadolinium 146  
NT2 gadolinium 147  
NT2 gadolinium 148  
NT2 gadolinium 149  
NT2 gadolinium 150  
NT2 gadolinium 151  
NT2 gadolinium 152  
NT2 gadolinium 153  
NT2 gadolinium 154  
NT2 gadolinium 155  
NT2 gadolinium 156  
NT2 gadolinium 157  
NT2 gadolinium 158  
NT2 gadolinium 159  
NT2 gadolinium 160  
NT2 gadolinium 161  
NT2 gadolinium 162  
NT2 gadolinium 163  
NT2 gadolinium 164  
NT2 gadolinium 165  
NT2 gadolinium 166  
NT2 gadolinium 167  
NT2 gadolinium 168  
NT2 gadolinium 169  
NT2 holmium 140  
NT2 holmium 141  
NT2 holmium 142  
NT2 holmium 143  
NT2 holmium 144  
NT2 holmium 145  
NT2 holmium 146  
NT2 holmium 147  
NT2 holmium 148  
NT2 holmium 149  
NT2 holmium 150  
NT2 holmium 151  
NT2 holmium 152  
NT2 holmium 153  
NT2 holmium 154  
NT2 holmium 155  
NT2 holmium 156  
NT2 holmium 157  
NT2 holmium 158  
NT2 holmium 159  
NT2 holmium 160



NT2	holmium 161	NT2	lutetium 175	NT2	praseodymium 151
NT2	holmium 162	NT2	lutetium 176	NT2	praseodymium 152
NT2	holmium 163	NT2	lutetium 177	NT2	praseodymium 153
NT2	holmium 164	NT2	lutetium 178	NT2	praseodymium 154
NT2	holmium 165	NT2	lutetium 179	NT2	praseodymium 155
NT2	holmium 166	NT2	lutetium 180	NT2	praseodymium 156
NT2	holmium 167	NT2	lutetium 181	NT2	praseodymium 157
NT2	holmium 168	NT2	lutetium 182	NT2	praseodymium 158
NT2	holmium 169	NT2	lutetium 183	NT2	praseodymium 159
NT2	holmium 170	NT2	lutetium 184	NT2	promethium 126
NT2	holmium 171	NT2	lutetium 187	NT2	promethium 127
NT2	holmium 172	NT2	neodymium 124	NT2	promethium 128
NT2	holmium 173	NT2	neodymium 125	NT2	promethium 129
NT2	holmium 174	NT2	neodymium 126	NT2	promethium 130
NT2	holmium 175	NT2	neodymium 127	NT2	promethium 131
NT2	lanthanum 117	NT2	neodymium 128	NT2	promethium 132
NT2	lanthanum 118	NT2	neodymium 129	NT2	promethium 133
NT2	lanthanum 119	NT2	neodymium 130	NT2	promethium 134
NT2	lanthanum 120	NT2	neodymium 131	NT2	promethium 135
NT2	lanthanum 121	NT2	neodymium 132	NT2	promethium 136
NT2	lanthanum 122	NT2	neodymium 133	NT2	promethium 137
NT2	lanthanum 123	NT2	neodymium 134	NT2	promethium 138
NT2	lanthanum 124	NT2	neodymium 135	NT2	promethium 139
NT2	lanthanum 125	NT2	neodymium 136	NT2	promethium 140
NT2	lanthanum 126	NT2	neodymium 137	NT2	promethium 141
NT2	lanthanum 127	NT2	neodymium 138	NT2	promethium 142
NT2	lanthanum 128	NT2	neodymium 139	NT2	promethium 143
NT2	lanthanum 129	NT2	neodymium 140	NT2	promethium 144
NT2	lanthanum 130	NT2	neodymium 141	NT2	promethium 145
NT2	lanthanum 131	NT2	neodymium 142	NT2	promethium 146
NT2	lanthanum 132	NT2	neodymium 143	NT2	promethium 147
NT2	lanthanum 133	NT2	neodymium 144	NT2	promethium 148
NT2	lanthanum 134	NT2	neodymium 145	NT2	promethium 149
NT2	lanthanum 135	NT2	neodymium 146	NT2	promethium 150
NT2	lanthanum 136	NT2	neodymium 147	NT2	promethium 151
NT2	lanthanum 137	NT2	neodymium 148	NT2	promethium 152
NT2	lanthanum 138	NT2	neodymium 149	NT2	promethium 153
NT2	lanthanum 139	NT2	neodymium 150	NT2	promethium 154
NT2	lanthanum 140	NT2	neodymium 151	NT2	promethium 155
NT2	lanthanum 141	NT2	neodymium 152	NT2	promethium 156
NT2	lanthanum 142	NT2	neodymium 153	NT2	promethium 157
NT2	lanthanum 143	NT2	neodymium 154	NT2	promethium 158
NT2	lanthanum 144	NT2	neodymium 155	NT2	promethium 159
NT2	lanthanum 145	NT2	neodymium 156	NT2	promethium 160
NT2	lanthanum 146	NT2	neodymium 157	NT2	promethium 161
NT2	lanthanum 147	NT2	neodymium 158	NT2	promethium 162
NT2	lanthanum 148	NT2	neodymium 159	NT2	promethium 163
NT2	lanthanum 149	NT2	neodymium 160	NT2	samarium 128
NT2	lanthanum 150	NT2	neodymium 161	NT2	samarium 129
NT2	lanthanum 151	NT2	praseodymium 121	NT2	samarium 130
NT2	lanthanum 152	NT2	praseodymium 122	NT2	samarium 131
NT2	lanthanum 153	NT2	praseodymium 123	NT2	samarium 132
NT2	lanthanum 154	NT2	praseodymium 124	NT2	samarium 133
NT2	lanthanum 155	NT2	praseodymium 125	NT2	samarium 134
NT2	lutetium 150	NT2	praseodymium 126	NT2	samarium 135
NT2	lutetium 151	NT2	praseodymium 127	NT2	samarium 136
NT2	lutetium 152	NT2	praseodymium 128	NT2	samarium 137
NT2	lutetium 153	NT2	praseodymium 129	NT2	samarium 138
NT2	lutetium 154	NT2	praseodymium 130	NT2	samarium 139
NT2	lutetium 155	NT2	praseodymium 131	NT2	samarium 140
NT2	lutetium 156	NT2	praseodymium 132	NT2	samarium 141
NT2	lutetium 157	NT2	praseodymium 133	NT2	samarium 142
NT2	lutetium 158	NT2	praseodymium 134	NT2	samarium 143
NT2	lutetium 159	NT2	praseodymium 135	NT2	samarium 144
NT2	lutetium 160	NT2	praseodymium 136	NT2	samarium 145
NT2	lutetium 161	NT2	praseodymium 137	NT2	samarium 146
NT2	lutetium 162	NT2	praseodymium 138	NT2	samarium 147
NT2	lutetium 163	NT2	praseodymium 139	NT2	samarium 148
NT2	lutetium 164	NT2	praseodymium 140	NT2	samarium 149
NT2	lutetium 165	NT2	praseodymium 141	NT2	samarium 150
NT2	lutetium 166	NT2	praseodymium 142	NT2	samarium 151
NT2	lutetium 167	NT2	praseodymium 143	NT2	samarium 152
NT2	lutetium 168	NT2	praseodymium 144	NT2	samarium 153
NT2	lutetium 169	NT2	praseodymium 145	NT2	samarium 154
NT2	lutetium 170	NT2	praseodymium 146	NT2	samarium 155
NT2	lutetium 171	NT2	praseodymium 147	NT2	samarium 156
NT2	lutetium 172	NT2	praseodymium 148	NT2	samarium 157
NT2	lutetium 173	NT2	praseodymium 149	NT2	samarium 158
NT2	lutetium 174	NT2	praseodymium 150	NT2	samarium 159

NT2 samarium 160  
 NT2 samarium 161  
 NT2 samarium 162  
 NT2 samarium 163  
 NT2 samarium 164  
 NT2 samarium 165  
 NT2 terbium 135  
 NT2 terbium 136  
 NT2 terbium 137  
 NT2 terbium 138  
 NT2 terbium 139  
 NT2 terbium 140  
 NT2 terbium 141  
 NT2 terbium 142  
 NT2 terbium 143  
 NT2 terbium 144  
 NT2 terbium 145  
 NT2 terbium 146  
 NT2 terbium 147  
 NT2 terbium 148  
 NT2 terbium 149  
 NT2 terbium 150  
 NT2 terbium 151  
 NT2 terbium 152  
 NT2 terbium 153  
 NT2 terbium 154  
 NT2 terbium 155  
 NT2 terbium 156  
 NT2 terbium 157  
 NT2 terbium 158  
 NT2 terbium 159  
 NT2 terbium 160  
 NT2 terbium 161  
 NT2 terbium 162  
 NT2 terbium 163  
 NT2 terbium 164  
 NT2 terbium 165  
 NT2 terbium 166  
 NT2 terbium 167  
 NT2 terbium 168  
 NT2 terbium 169  
 NT2 terbium 170  
 NT2 terbium 171  
 NT2 thulium 144  
 NT2 thulium 145  
 NT2 thulium 146  
 NT2 thulium 147  
 NT2 thulium 148  
 NT2 thulium 149  
 NT2 thulium 150  
 NT2 thulium 151  
 NT2 thulium 152  
 NT2 thulium 153  
 NT2 thulium 154  
 NT2 thulium 155  
 NT2 thulium 156  
 NT2 thulium 157  
 NT2 thulium 158  
 NT2 thulium 159  
 NT2 thulium 160  
 NT2 thulium 161  
 NT2 thulium 162  
 NT2 thulium 163  
 NT2 thulium 164  
 NT2 thulium 165  
 NT2 thulium 166  
 NT2 thulium 167  
 NT2 thulium 168  
 NT2 thulium 169  
 NT2 thulium 170  
 NT2 thulium 171  
 NT2 thulium 172  
 NT2 thulium 173  
 NT2 thulium 174  
 NT2 thulium 175  
 NT2 thulium 176  
 NT2 thulium 177  
 NT2 thulium 178  
 NT2 thulium 179

NT2 ytterbium 148  
 NT2 ytterbium 149  
 NT2 ytterbium 150  
 NT2 ytterbium 151  
 NT2 ytterbium 152  
 NT2 ytterbium 153  
 NT2 ytterbium 154  
 NT2 ytterbium 155  
 NT2 ytterbium 156  
 NT2 ytterbium 157  
 NT2 ytterbium 158  
 NT2 ytterbium 159  
 NT2 ytterbium 160  
 NT2 ytterbium 161  
 NT2 ytterbium 162  
 NT2 ytterbium 163  
 NT2 ytterbium 164  
 NT2 ytterbium 165  
 NT2 ytterbium 166  
 NT2 ytterbium 167  
 NT2 ytterbium 168  
 NT2 ytterbium 169  
 NT2 ytterbium 170  
 NT2 ytterbium 171  
 NT2 ytterbium 172  
 NT2 ytterbium 173  
 NT2 ytterbium 174  
 NT2 ytterbium 175  
 NT2 ytterbium 176  
 NT2 ytterbium 177  
 NT2 ytterbium 178  
 NT2 ytterbium 179  
 NT2 ytterbium 180  
 NT2 ytterbium 181  
 NT1 rhenium 159  
 NT1 rhenium 160  
 NT1 rhenium 161  
 NT1 rhenium 162  
 NT1 rhenium 163  
 NT1 rhenium 164  
 NT1 rhenium 165  
 NT1 rhenium 166  
 NT1 rhenium 167  
 NT1 rhenium 168  
 NT1 rhenium 169  
 NT1 rhenium 170  
 NT1 rhenium 171  
 NT1 rhenium 172  
 NT1 rhenium 173  
 NT1 rhenium 174  
 NT1 rhenium 175  
 NT1 rhenium 176  
 NT1 rhenium 177  
 NT1 rhenium 178  
 NT1 rhenium 179  
 NT1 rhenium 180  
 NT1 rhodium 100  
 NT1 rhodium 101  
 NT1 rhodium 102  
 NT1 rhodium 103  
 NT1 rhodium 104  
 NT1 rhodium 105  
 NT1 rhodium 106  
 NT1 rhodium 107  
 NT1 rhodium 108  
 NT1 rhodium 109  
 NT1 rhodium 110  
 NT1 rhodium 111  
 NT1 rhodium 112  
 NT1 rhodium 113  
 NT1 rhodium 114  
 NT1 rhodium 115  
 NT1 rhodium 116  
 NT1 rhodium 117  
 NT1 rhodium 118  
 NT1 rhodium 119  
 NT1 rhodium 120  
 NT1 rhodium 121  
 NT1 rhodium 122

NT1 rhodium 89  
 NT1 rhodium 90  
 NT1 rhodium 91  
 NT1 rhodium 92  
 NT1 rhodium 93  
 NT1 rhodium 94  
 NT1 rhodium 95  
 NT1 rhodium 96  
 NT1 rhodium 97  
 NT1 rhodium 98  
 NT1 rhodium 99  
 NT1 rubidium 100  
 NT1 rubidium 101  
 NT1 rubidium 102  
 NT1 rubidium 103  
 NT1 rubidium 71  
 NT1 rubidium 72  
 NT1 rubidium 73  
 NT1 rubidium 74  
 NT1 rubidium 75  
 NT1 rubidium 76  
 NT1 rubidium 77  
 NT1 rubidium 78  
 NT1 rubidium 79  
 NT1 rubidium 80  
 NT1 rubidium 81  
 NT1 rubidium 82  
 NT1 rubidium 83  
 NT1 rubidium 84  
 NT1 rubidium 85  
 NT1 rubidium 86  
 NT1 rubidium 87  
 NT1 rubidium 88  
 NT1 rubidium 89  
 NT1 rubidium 90  
 NT1 rubidium 91  
 NT1 rubidium 92  
 NT1 rubidium 93  
 NT1 rubidium 94  
 NT1 rubidium 95  
 NT1 rubidium 96  
 NT1 rubidium 97  
 NT1 rubidium 98  
 NT1 ruthenium 100  
 NT1 ruthenium 101  
 NT1 ruthenium 102  
 NT1 ruthenium 103  
 NT1 ruthenium 104  
 NT1 ruthenium 105  
 NT1 ruthenium 106  
 NT1 ruthenium 107  
 NT1 ruthenium 108  
 NT1 ruthenium 109  
 NT1 ruthenium 110  
 NT1 ruthenium 111  
 NT1 ruthenium 112  
 NT1 ruthenium 113  
 NT1 ruthenium 114  
 NT1 ruthenium 115  
 NT1 ruthenium 116  
 NT1 ruthenium 117  
 NT1 ruthenium 118  
 NT1 ruthenium 119  
 NT1 ruthenium 120  
 NT1 ruthenium 87  
 NT1 ruthenium 88  
 NT1 ruthenium 89  
 NT1 ruthenium 90  
 NT1 ruthenium 91  
 NT1 ruthenium 92  
 NT1 ruthenium 93  
 NT1 ruthenium 94  
 NT1 ruthenium 95  
 NT1 ruthenium 96  
 NT1 ruthenium 97  
 NT1 ruthenium 98  
 NT1 ruthenium 99  
 NT1 scandium 41

NT1	scandium 42	NT1	silver 129	NT1	technetium 102
NT1	scandium 43	NT1	silver 130	NT1	technetium 103
NT1	scandium 44	NT1	silver 93	NT1	technetium 104
NT1	scandium 45	NT1	silver 94	NT1	technetium 105
NT1	scandium 46	NT1	silver 95	NT1	technetium 106
NT1	scandium 47	NT1	silver 96	NT1	technetium 107
NT1	scandium 48	NT1	silver 97	NT1	technetium 108
NT1	scandium 49	NT1	silver 98	NT1	technetium 109
NT1	scandium 50	NT1	silver 99	NT1	technetium 110
NT1	scandium 51	NT1	strontium 100	NT1	technetium 111
NT1	scandium 52	NT1	strontium 101	NT1	technetium 112
NT1	scandium 53	NT1	strontium 102	NT1	technetium 113
NT1	scandium 54	NT1	strontium 103	NT1	technetium 114
NT1	scandium 55	NT1	strontium 104	NT1	technetium 115
NT1	scandium 56	NT1	strontium 105	NT1	technetium 116
NT1	scandium 57	NT1	strontium 73	NT1	technetium 117
NT1	scandium 58	NT1	strontium 74	NT1	technetium 118
NT1	scandium 59	NT1	strontium 75	NT1	technetium 85
NT1	scandium 60	NT1	strontium 76	NT1	technetium 86
NT1	selenium 64	NT1	strontium 77	NT1	technetium 87
NT1	selenium 65	NT1	strontium 78	NT1	technetium 88
NT1	selenium 66	NT1	strontium 79	NT1	technetium 89
NT1	selenium 67	NT1	strontium 80	NT1	technetium 90
NT1	selenium 68	NT1	strontium 81	NT1	technetium 91
NT1	selenium 69	NT1	strontium 82	NT1	technetium 92
NT1	selenium 70	NT1	strontium 83	NT1	technetium 93
NT1	selenium 71	NT1	strontium 84	NT1	technetium 94
NT1	selenium 72	NT1	strontium 85	NT1	technetium 95
NT1	selenium 73	NT1	strontium 86	NT1	technetium 96
NT1	selenium 74	NT1	strontium 87	NT1	technetium 97
NT1	selenium 75	NT1	strontium 88	NT1	technetium 98
NT1	selenium 76	NT1	strontium 89	NT1	technetium 99
NT1	selenium 77	NT1	strontium 90	NT1	tellurium 105
NT1	selenium 78	NT1	strontium 91	NT1	tellurium 106
NT1	selenium 79	NT1	strontium 92	NT1	tellurium 107
NT1	selenium 80	NT1	strontium 93	NT1	tellurium 108
NT1	selenium 81	NT1	strontium 94	NT1	tellurium 109
NT1	selenium 82	NT1	strontium 95	NT1	tellurium 110
NT1	selenium 83	NT1	strontium 96	NT1	tellurium 111
NT1	selenium 84	NT1	strontium 97	NT1	tellurium 112
NT1	selenium 85	NT1	strontium 98	NT1	tellurium 113
NT1	selenium 86	NT1	strontium 99	NT1	tellurium 114
NT1	selenium 87	NT1	sulfur 41	NT1	tellurium 115
NT1	selenium 88	NT1	sulfur 42	NT1	tellurium 116
NT1	selenium 89	NT1	sulfur 43	NT1	tellurium 117
NT1	selenium 91	NT1	sulfur 44	NT1	tellurium 118
NT1	silicon 41	NT1	sulfur 45	NT1	tellurium 119
NT1	silicon 42	NT1	sulfur 46	NT1	tellurium 120
NT1	silicon 43	NT1	sulfur 47	NT1	tellurium 121
NT1	silicon 44	NT1	sulfur 48	NT1	tellurium 122
NT1	silver 100	NT1	sulfur 49	NT1	tellurium 123
NT1	silver 101	NT1	tantalum 155	NT1	tellurium 124
NT1	silver 102	NT1	tantalum 156	NT1	tellurium 125
NT1	silver 103	NT1	tantalum 157	NT1	tellurium 126
NT1	silver 104	NT1	tantalum 158	NT1	tellurium 127
NT1	silver 105	NT1	tantalum 159	NT1	tellurium 128
NT1	silver 106	NT1	tantalum 160	NT1	tellurium 129
NT1	silver 107	NT1	tantalum 161	NT1	tellurium 130
NT1	silver 108	NT1	tantalum 162	NT1	tellurium 131
NT1	silver 109	NT1	tantalum 163	NT1	tellurium 132
NT1	silver 110	NT1	tantalum 164	NT1	tellurium 133
NT1	silver 111	NT1	tantalum 165	NT1	tellurium 134
NT1	silver 112	NT1	tantalum 166	NT1	tellurium 135
NT1	silver 113	NT1	tantalum 167	NT1	tellurium 136
NT1	silver 114	NT1	tantalum 168	NT1	tellurium 137
NT1	silver 115	NT1	tantalum 169	NT1	tellurium 138
NT1	silver 116	NT1	tantalum 170	NT1	tellurium 139
NT1	silver 117	NT1	tantalum 171	NT1	tellurium 140
NT1	silver 118	NT1	tantalum 172	NT1	tellurium 141
NT1	silver 119	NT1	tantalum 173	NT1	tellurium 142
NT1	silver 120	NT1	tantalum 174	NT1	thallium 176
NT1	silver 121	NT1	tantalum 175	NT1	thallium 177
NT1	silver 122	NT1	tantalum 176	NT1	thallium 178
NT1	silver 123	NT1	tantalum 177	NT1	thallium 179
NT1	silver 124	NT1	tantalum 178	NT1	thallium 180
NT1	silver 125	NT1	tantalum 179	NT1	tin 100
NT1	silver 126	NT1	tantalum 180	NT1	tin 101
NT1	silver 127	NT1	technetium 100	NT1	tin 102
NT1	silver 128	NT1	technetium 101	NT1	tin 103

---

NT1 tin 104	NT1 tungsten 179	NT1 yttrium 80
NT1 tin 105	NT1 tungsten 180	NT1 yttrium 81
NT1 tin 106	NT1 vanadium 41	NT1 yttrium 82
NT1 tin 107	NT1 vanadium 42	NT1 yttrium 83
NT1 tin 108	NT1 vanadium 43	NT1 yttrium 84
NT1 tin 109	NT1 vanadium 44	NT1 yttrium 85
NT1 tin 110	NT1 vanadium 45	NT1 yttrium 86
NT1 tin 111	NT1 vanadium 46	NT1 yttrium 87
NT1 tin 112	NT1 vanadium 47	NT1 yttrium 88
NT1 tin 113	NT1 vanadium 48	NT1 yttrium 89
NT1 tin 114	NT1 vanadium 49	NT1 yttrium 90
NT1 tin 115	NT1 vanadium 50	NT1 yttrium 91
NT1 tin 116	NT1 vanadium 51	NT1 yttrium 92
NT1 tin 117	NT1 vanadium 52	NT1 yttrium 93
NT1 tin 118	NT1 vanadium 53	NT1 yttrium 94
NT1 tin 119	NT1 vanadium 54	NT1 yttrium 95
NT1 tin 120	NT1 vanadium 55	NT1 yttrium 96
NT1 tin 121	NT1 vanadium 56	NT1 yttrium 97
NT1 tin 122	NT1 vanadium 57	NT1 yttrium 98
NT1 tin 123	NT1 vanadium 58	NT1 yttrium 99
NT1 tin 124	NT1 vanadium 59	NT1 zinc 54
NT1 tin 125	NT1 vanadium 60	NT1 zinc 55
NT1 tin 126	NT1 vanadium 61	NT1 zinc 56
NT1 tin 127	NT1 vanadium 62	NT1 zinc 57
NT1 tin 128	NT1 vanadium 63	NT1 zinc 58
NT1 tin 129	NT1 vanadium 64	NT1 zinc 59
NT1 tin 130	NT1 vanadium 65	NT1 zinc 60
NT1 tin 131	NT1 xenon 109	NT1 zinc 61
NT1 tin 132	NT1 xenon 110	NT1 zinc 62
NT1 tin 133	NT1 xenon 111	NT1 zinc 63
NT1 tin 134	NT1 xenon 112	NT1 zinc 64
NT1 tin 135	NT1 xenon 113	NT1 zinc 65
NT1 tin 136	NT1 xenon 114	NT1 zinc 66
NT1 tin 137	NT1 xenon 115	NT1 zinc 67
NT1 tin 99	NT1 xenon 116	NT1 zinc 68
NT1 titanium 41	NT1 xenon 117	NT1 zinc 69
NT1 titanium 42	NT1 xenon 118	NT1 zinc 70
NT1 titanium 43	NT1 xenon 119	NT1 zinc 71
NT1 titanium 44	NT1 xenon 120	NT1 zinc 72
NT1 titanium 45	NT1 xenon 121	NT1 zinc 73
NT1 titanium 46	NT1 xenon 122	NT1 zinc 74
NT1 titanium 47	NT1 xenon 123	NT1 zinc 75
NT1 titanium 48	NT1 xenon 124	NT1 zinc 76
NT1 titanium 49	NT1 xenon 125	NT1 zinc 77
NT1 titanium 50	NT1 xenon 126	NT1 zinc 78
NT1 titanium 51	NT1 xenon 127	NT1 zinc 79
NT1 titanium 52	NT1 xenon 128	NT1 zinc 80
NT1 titanium 53	NT1 xenon 129	NT1 zinc 81
NT1 titanium 54	NT1 xenon 130	NT1 zinc 82
NT1 titanium 55	NT1 xenon 131	NT1 zinc 83
NT1 titanium 56	NT1 xenon 132	NT1 zirconium 100
NT1 titanium 57	NT1 xenon 133	NT1 zirconium 101
NT1 titanium 58	NT1 xenon 134	NT1 zirconium 102
NT1 titanium 59	NT1 xenon 135	NT1 zirconium 103
NT1 titanium 60	NT1 xenon 136	NT1 zirconium 104
NT1 titanium 61	NT1 xenon 137	NT1 zirconium 105
NT1 titanium 62	NT1 xenon 138	NT1 zirconium 106
NT1 titanium 63	NT1 xenon 139	NT1 zirconium 107
NT1 tungsten 158	NT1 xenon 140	NT1 zirconium 108
NT1 tungsten 159	NT1 xenon 141	NT1 zirconium 109
NT1 tungsten 160	NT1 xenon 142	NT1 zirconium 110
NT1 tungsten 161	NT1 xenon 143	NT1 zirconium 78
NT1 tungsten 162	NT1 xenon 144	NT1 zirconium 79
NT1 tungsten 163	NT1 xenon 145	NT1 zirconium 80
NT1 tungsten 164	NT1 xenon 146	NT1 zirconium 81
NT1 tungsten 165	NT1 xenon 147	NT1 zirconium 82
NT1 tungsten 166	NT1 yttrium 100	NT1 zirconium 83
NT1 tungsten 167	NT1 yttrium 101	NT1 zirconium 84
NT1 tungsten 168	NT1 yttrium 102	NT1 zirconium 85
NT1 tungsten 169	NT1 yttrium 103	NT1 zirconium 86
NT1 tungsten 170	NT1 yttrium 104	NT1 zirconium 87
NT1 tungsten 171	NT1 yttrium 105	NT1 zirconium 88
NT1 tungsten 172	NT1 yttrium 106	NT1 zirconium 89
NT1 tungsten 173	NT1 yttrium 107	NT1 zirconium 90
NT1 tungsten 174	NT1 yttrium 108	NT1 zirconium 91
NT1 tungsten 175	NT1 yttrium 76	NT1 zirconium 92
NT1 tungsten 176	NT1 yttrium 77	NT1 zirconium 93
NT1 tungsten 177	NT1 yttrium 78	NT1 zirconium 94
NT1 tungsten 178	NT1 yttrium 79	NT1 zirconium 95

NT1 zirconium 96  
 NT1 zirconium 97  
 NT1 zirconium 98  
 NT1 zirconium 99  
 RT nuclear structure

**INTERMEDIATE NEUTRONS**

\*BT1 neutrons  
 RT resonance neutrons

**INTERMEDIATE REACTORS**

\*BT1 epithermal reactors  
 NT1 thor reactor  
 RT resonance neutrons

**INTERMEDIATE RESONANCE**

BT1 resonance  
 RT cross sections  
 RT intermediate structure  
 RT nuclear reactions

**INTERMEDIATE STATE**

2000-04-12

*A state of partial superconductivity that occurs when a magnetic field of appropriate strength is applied to a superconducting material below its critical temperature.*

RT superconductivity

**intermediate storage**

INIS: 1982-12-06; ETDE: 2002-06-13

USE waste storage

**INTERMEDIATE STRUCTURE**

RT cross sections  
 RT intermediate resonance  
 RT nuclear reactions

**intermediate technology**

INIS: 2000-04-12; ETDE: 1978-06-14

USE appropriate technology

**INTERMEDIATE VECTOR BOSONS**

SF weak boson  
 \*BT1 intermediate bosons  
 NT1 w minus bosons  
 NT1 w plus bosons  
 NT1 z neutral bosons  
 RT electron-quark interactions  
 RT weinberg angle

**intermediates (reaction)**

INIS: 2000-04-12; ETDE: 1980-03-04

SEE reaction intermediates

**INTERMETALLIC COMPOUNDS**

1995-11-22

*Alloy of two or more metals in which a change in composition is accompanied by a progression of phases, differing in crystal structure. Index the constituent metals with descriptors of the form (METAL) ALLOYS.*

UF electron compounds

BT1 alloys  
 NT1 cementite  
 RT antimonides  
 RT arsenides  
 RT borides  
 RT laves phases  
 RT selenides  
 RT semimetals  
 RT silicides  
 RT tellurides

**INTERMOLECULAR FORCES**

RT binding energy  
 RT potentials  
 RT van der waals forces

**INTERNAL BREMSSTRAHLUNG**

UF inner bremsstrahlung

\*BT1 bremsstrahlung

**INTERNAL COMBUSTION ENGINES**

1997-06-19

UF gas engines  
 UF gasoline engines  
 \*BT1 heat engines  
 NT1 diesel engines  
 NT1 direct injection engines  
 NT1 dual-fuel engines  
 NT1 gas turbine engines  
 NT1 ramjet engines  
 NT1 rotary engines  
 NT2 wankel engines  
 NT1 spark ignition engines  
 NT2 wankel engines  
 NT1 stratified charge engines  
 NT1 turbofan engines  
 NT1 turbojet engines  
 RT aaps  
 RT autoignition  
 RT carburetors  
 RT compression ratio  
 RT exhaust gases  
 RT ignition systems  
 RT knock control  
 RT pcv systems  
 RT pistons  
 RT superchargers

**internal contamination**

USE radionuclide kinetics

**INTERNAL CONVERSION**

BT1 conversion  
 \*BT1 nuclear decay  
 NT1 k conversion  
 NT1 l conversion  
 NT1 m conversion  
 RT energy levels  
 RT gamma decay  
 RT internal conversion radioisotopes  
 RT internal pair production

**INTERNAL CONVERSION RADIOISOTOPES**

\*BT1 radioisotopes  
 NT1 actinium 227  
 NT1 antimony 119  
 NT1 antimony 122  
 NT1 antimony 124  
 NT1 antimony 126  
 NT1 astatine 212  
 NT1 barium 131  
 NT1 barium 133  
 NT1 barium 135  
 NT1 berkelium 243  
 NT1 bromine 77  
 NT1 bromine 80  
 NT1 bromine 82  
 NT1 cadmium 111  
 NT1 cadmium 113  
 NT1 californium 247  
 NT1 californium 250  
 NT1 cerium 133  
 NT1 cerium 137  
 NT1 cesium 123  
 NT1 cesium 134  
 NT1 cesium 138  
 NT1 cobalt 58  
 NT1 cobalt 60  
 NT1 dysprosium 159  
 NT1 einsteinium 254  
 NT1 erbium 156  
 NT1 erbium 169  
 NT1 germanium 73  
 NT1 germanium 75  
 NT1 gold 191  
 NT1 gold 193  
 NT1 gold 195  
 NT1 gold 196  
 NT1 gold 197

NT1 hafnium 178  
 NT1 hafnium 179  
 NT1 hafnium 180  
 NT1 holmium 158  
 NT1 holmium 160  
 NT1 holmium 164  
 NT1 indium 112  
 NT1 indium 114  
 NT1 indium 115  
 NT1 indium 116  
 NT1 indium 121  
 NT1 iodine 125  
 NT1 iodine 129  
 NT1 iodine 130  
 NT1 iodine 132  
 NT1 iodine 133  
 NT1 iridium 190  
 NT1 iridium 191  
 NT1 iridium 192  
 NT1 iridium 193  
 NT1 krypton 79  
 NT1 krypton 83  
 NT1 lead 199  
 NT1 lead 202  
 NT1 lutetium 169  
 NT1 lutetium 170  
 NT1 lutetium 171  
 NT1 lutetium 172  
 NT1 lutetium 176  
 NT1 mercury 193  
 NT1 mercury 195  
 NT1 mercury 197  
 NT1 mercury 199  
 NT1 molybdenum 93  
 NT1 neodymium 147  
 NT1 neptunium 236  
 NT1 niobium 91  
 NT1 niobium 93  
 NT1 niobium 94  
 NT1 osmium 180  
 NT1 osmium 189  
 NT1 osmium 190  
 NT1 osmium 191  
 NT1 osmium 194  
 NT1 palladium 112  
 NT1 platinum 193  
 NT1 platinum 195  
 NT1 platinum 197  
 NT1 platinum 199  
 NT1 plutonium 235  
 NT1 plutonium 237  
 NT1 polonium 199  
 NT1 polonium 201  
 NT1 polonium 202  
 NT1 polonium 203  
 NT1 polonium 205  
 NT1 polonium 206  
 NT1 polonium 207  
 NT1 praseodymium 142  
 NT1 promethium 145  
 NT1 radium 213  
 NT1 radium 225  
 NT1 radium 228  
 NT1 radium 230  
 NT1 radon 210  
 NT1 radon 211  
 NT1 rhenium 183  
 NT1 rhenium 184  
 NT1 rhenium 188  
 NT1 rhenium 189  
 NT1 rhodium 100  
 NT1 rhodium 101  
 NT1 rhodium 103  
 NT1 rhodium 105  
 NT1 rhodium 96  
 NT1 rubidium 81  
 NT1 samarium 145  
 NT1 samarium 151  
 NT1 scandium 46

**NT1** selenium 79  
**NT1** selenium 81  
**NT1** silver 103  
**NT1** silver 105  
**NT1** silver 107  
**NT1** silver 109  
**NT1** silver 111  
**NT1** silver 99  
**NT1** tantalum 182  
**NT1** technetium 96  
**NT1** technetium 97  
**NT1** technetium 99  
**NT1** tellurium 121  
**NT1** tellurium 123  
**NT1** tellurium 125  
**NT1** terbium 151  
**NT1** terbium 157  
**NT1** terbium 158  
**NT1** thallium 198  
**NT1** thorium 234  
**NT1** thulium 159  
**NT1** thulium 161  
**NT1** tin 113  
**NT1** tin 119  
**NT1** tin 121  
**NT1** tungsten 176  
**NT1** tungsten 181  
**NT1** tungsten 185  
**NT1** uranium 230  
**NT1** uranium 235  
**NT1** uranium 240  
**NT1** xenon 125  
**NT1** xenon 129  
**NT1** xenon 131  
**NT1** xenon 133  
**NT1** ytterbium 164  
**NT1** ytterbium 165  
**NT1** ytterbium 166  
**NT1** ytterbium 177  
**NT1** yttrium 86  
**RT** internal conversion

### INTERNAL ELECTROMAGNETIC PULSES

**\*BT1** electromagnetic pulses  
**RT** electron emission

### INTERNAL FRICTION

**UF** friction (internal)  
**BT1** friction  
**RT** bordoni peak  
**RT** crystal defects  
**RT** damping  
**RT** hysteresis  
**RT** viscosity

### INTERNAL IONIZATION

**BT1** ionization  
**RT** beta decay

### INTERNAL IRRADIATION

**UF** absorbed fraction (internal irradiation)  
**UF** effective energy (internal irradiation)  
**BT1** irradiation  
**RT** afterloading  
**RT** brachytherapy  
**RT** critical organs  
**RT** dose commitments  
**RT** radiation source implants  
**RT** radionuclide kinetics  
**RT** unsealed sources

### INTERNAL MARKET

*INIS: 1995-03-02; ETDE: 1995-01-03*  
 (Until December 1994 this concept was indexed to COMMON MARKET.)  
**UF** common market  
**UF** european economic community  
**UF** single market  
**\*BT1** european union

### internal medicine

**USE** medicine

### INTERNAL PAIR PRODUCTION

*Creation of an electron-positron pair by internal conversion of a nucleus with excitation of more than 1.022 MeV.*

**UF** pair conversion  
**\*BT1** pair production  
**RT** decay  
**RT** internal conversion

### internal revenue service

*INIS: 2000-04-12; ETDE: 1978-04-06*  
**USE** us irs

### INTERNAL RING DEVICES

*1996-07-08*  
**\*BT1** closed plasma devices  
**NT1** fm devices  
**NT1** levitron devices  
**NT1** lm devices  
**NT1** spherator  
**NT1** tokapole devices  
**NT1** tornado devices  
**RT** minimum average-b configurations  
**RT** multipolar configurations

### INTERNAL WAVES

*INIS: 2000-04-12; ETDE: 1982-02-23*  
*A wave motion of a stably stratified fluid in which the maximum vertical motion takes place below the surface of the fluid.*  
**RT** energy transfer  
**RT** water waves  
**RT** wave propagation

### international affairs

*INIS: 1994-09-09; ETDE: 1980-05-06*  
**USE** international relations

### INTERNATIONAL AGREEMENTS

*Including agreements involving international organizations. The countries or organizations parties to the agreement are also indexed if appropriate.*

**BT1** agreements  
**NT1** atomic energy agreements  
**NT1** bcoclmcmn  
**NT1** bcolons  
**NT1** bcstpc  
**NT1** bilateral agreements  
**NT1** canare  
**NT1** cenna  
**NT1** cppnm  
**NT1** cscnd  
**NT1** iaea agreements  
**NT1** international convention on nuclear safety  
**NT1** lcpmpdpw  
**NT1** multilateral agreements  
**NT2** kyoto protocol  
**NT2** rio declaration  
**NT1** pcotpl  
**NT1** solas convention  
**NT1** vcoclnd  
**RT** coordinated research programs  
**RT** foreign policy  
**RT** international cooperation  
**RT** international relations  
**RT** north star project  
**RT** nuclear freeze  
**RT** rarotonga treaty  
**RT** treaties

### international atomic energy agency

*1993-11-08*  
**USE** iaea

### international center for theoretical physics

*INIS: 1993-11-08; ETDE: 2002-06-13*  
**USE** ictp

### international commission on radiation units and measurements

2006-05-22  
**USE** icru

### international commission radiological protection

1993-11-08  
**USE** icrp

### INTERNATIONAL CONTROL

**\*BT1** atomic energy control  
**RT** international cooperation

### INTERNATIONAL CONVENTION ON NUCLEAR SAFETY

*INIS: 2002-02-04; ETDE: 2005-01-28*  
 (Prior to January 2005 ICNS was used for this concept.)  
**UF** convention on nuclear safety  
**UF** icns (international convention on nuclear safety)  
**UF** nuclear safety convention  
**\*BT1** international agreements  
**RT** iaea  
**RT** radiation protection  
**RT** reactor safety

### INTERNATIONAL COOPERATION

*1996-01-09*  
*The cooperating countries or organizations are also indexed if appropriate.*  
**BT1** cooperation  
**RT** coordinated research programs  
**RT** dumand project  
**RT** embargoes  
**RT** euromarket  
**RT** foreign policy  
**RT** ifiec  
**RT** international agreements  
**RT** international control  
**RT** international nuclear data committee  
**RT** international organizations  
**RT** international relations  
**RT** military assistance  
**RT** multinational enterprises  
**RT** technology transfer

### INTERNATIONAL ELECTROTECHNICAL COMMISSION

*2004-09-14*  
**UF** iec (international electrotechnical commission)  
**BT1** international organizations  
**RT** iso  
**RT** recommendations  
**RT** standards  
**RT** standards document

### INTERNATIONAL ENERGY AGENCY

*INIS: 1977-04-07; ETDE: 1976-03-11*  
**UF** iea  
**BT1** international organizations  
**RT** energy policy  
**RT** energy shortages  
**RT** etde  
**RT** oecd

### international federation of industrial energy consumers

*INIS: 1993-11-08; ETDE: 2002-06-13*  
**USE** ifiec

**international food irradiation project**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE ifip

**international fusion superconducting magnet test facility**

INIS: 2000-04-12; ETDE: 1987-04-08  
IFSMTF.  
(From February 1979 to March 1997 LARGE COIL PROGRAM was a valid ETDE descriptor.)  
USE test facilities

**INTERNATIONAL GEOPHYSICAL YEAR**

UF igy  
RT geophysics  
RT sun

**international labour organisation**

1993-11-08  
USE ilo

**INTERNATIONAL LAWS**

1990-12-15  
(Prior to December 1990, this descriptor was spelled INTERNATIONAL LAW.)  
BT1 laws  
RT treaties

**INTERNATIONAL MAGNETOSPHERIC STUDY**

INIS: 1990-12-15; ETDE: 1977-10-20  
The study covers the years 1976-1978.  
(Prior to December 1990, this descriptor was spelled INTERNATL MAGNETOSPHERIC STUDY, and documents were indexed with this spelling.)  
UF ims  
UF internatl magnetospheric study  
RT earth magnetosphere  
RT geomagnetic field  
RT magnetopause  
RT magnetosheath  
RT magnetotail  
RT plasmopause  
RT plasmasphere

**international maritime consultative organization**

1993-11-08  
USE imo

**international maritime organization**

2001-07-19  
USE imo

**INTERNATIONAL NUCLEAR DATA COMMITTEE**

INIS: 1976-07-16; ETDE: 1978-01-23  
UF indc  
BT1 international organizations  
RT international cooperation  
RT nuclear data collections  
RT us nuclear data network

**INTERNATIONAL NUCLEAR EVENT SCALE**

1995-05-10  
UF ines  
RT emergency plans  
RT fission product release  
RT radiation accidents  
RT radiation protection  
RT reactor accidents  
RT reactor safety

**international nuclear information system**

1993-11-08  
USE inis

**INTERNATIONAL ORGANIZATIONS**

1998-06-10  
UF ccms  
UF oas  
UF organization of american states  
NT1 abacc  
NT1 arab atomic energy agency  
NT1 cen  
NT1 cern  
NT1 comecon  
NT1 ctbto  
NT1 esa  
NT1 esarda  
NT1 eurodif  
NT1 european union  
NT2 ecsc  
NT2 euratom  
NT2 internal market  
NT1 fao  
NT1 foratom  
NT1 iaea  
NT2 ictp  
NT2 monaco marine environment laboratory  
NT2 seibersdorf iaea laboratory  
NT1 icrp  
NT1 icru  
NT1 ifiec  
NT1 ilo  
NT1 imo  
NT1 international electrotechnical commission  
NT1 international energy agency  
NT1 international nuclear data committee  
NT1 irpa  
NT1 iso  
NT1 jinr  
NT1 nato  
NT1 oapec  
NT1 oecd  
NT2 nea  
NT1 olade  
NT1 opec  
NT1 undp  
NT1 unep  
NT1 unesco  
NT1 unidir  
NT1 unido  
NT1 united nations  
NT1 unscar  
NT1 uranium institute  
NT1 wano  
NT1 wenra  
NT1 who  
NT1 wmo  
NT1 world energy council  
RT coordinated research programs  
RT international cooperation  
RT member states  
RT national organizations

**INTERNATIONAL QUIET SUN YEAR**

UF iqsy  
RT sun

**international radiation protection association**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE irpa

**INTERNATIONAL REGULATIONS**

INIS: 1976-07-16; ETDE: 1976-09-15  
\*BT1 regulations  
NT1 oecd mcmsdrw

**INTERNATIONAL RELATIONS**

INIS: 1994-09-09; ETDE: 1980-05-06  
Political aspects of affairs between countries.  
UF balance of power  
UF international affairs  
RT international agreements  
RT international cooperation  
RT salt talks  
RT trade

**INTERNATIONAL SOLAR MAXIMUM YEAR**

INIS: 1990-12-17; ETDE: 1981-08-04  
Began in October 1979.  
(Prior to December 1990, this descriptor was spelled INTERNATL SOLAR MAXIMUM YEAR, and documents were indexed with this spelling.)  
UF internatl solar maximum year  
RT solar cycle  
RT sun

**INTERNATIONAL SPACE STATION**

2005-10-13  
UF iss orbital station  
RT satellites  
RT space vehicles

**international standard organization**

1993-11-08  
USE iso

**international tokamak reactor**

INIS: 1980-09-12; ETDE: 1980-10-07  
USE intor tokamak

**internatl magnetospheric study**

INIS: 1990-12-15; ETDE: 2002-06-13  
(Prior to December 1990, this was a valid descriptor.)  
USE international magnetospheric study

**internatl solar maximum year**

INIS: 1990-12-17; ETDE: 2002-06-13  
(Prior to December 1990, this was a valid descriptor.)  
USE international solar maximum year

**INTERNET**

1995-10-27  
For documents discussing the Internet.  
BT1 computer networks  
RT information dissemination

**INTERPLANETARY MAGNETIC FIELDS**

BT1 magnetic fields  
RT interplanetary space

**INTERPLANETARY SPACE**

BT1 space  
RT geocorona  
RT interplanetary magnetic fields  
RT solar system  
RT zodiacal light

**INTERPOLATION**

\*BT1 numerical solution  
RT extrapolation  
RT mathematics  
RT runge-kutta method  
RT spline functions

**intersecting beams**

USE colliding beams

**intersecting storage accelerator**

1993-11-08  
USE isabelle storage rings

**INTERSTELLAR GRAINS**

BT1 particles

RT cosmic dust  
RT cosmic gases  
RT star accretion

## INTERSTELLAR MAGNETIC FIELDS

BT1 magnetic fields  
RT interstellar space

## INTERSTELLAR SPACE

BT1 space  
RT cosmic dust  
RT cosmic gases  
RT interstellar magnetic fields  
RT milky way  
RT star accretion

## interstitial cell stim hormone

USE luteinizing hormone

## INTERSTITIAL HELIUM

### GENERATION

INIS: 1990-12-15; ETDE: 1991-08-14

*Generation of helium in the lattice structure of structural materials due to neutron irradiation.*

(Prior to December 1990, this concept was indexed by HELIUM GENERATION.)

UF helium generation  
UF helium production rates  
SF gas production rates  
\*BT1 physical radiation effects  
RT damaging neutron fluence  
RT helium embrittlement

## INTERSTITIAL HYDROGEN

### GENERATION

INIS: 1990-12-15; ETDE: 1991-08-15

*Generation of hydrogen in the lattice structure of structural materials due to neutron irradiation.*

(Prior to December 1990, this concept was indexed by HYDROGEN GENERATION.)

UF hydrogen generation  
UF hydrogen production rates  
SF gas production rates  
\*BT1 physical radiation effects  
RT damaging neutron fluence  
RT hydrogen embrittlement

## INTERSTITIAL WATER

INIS: 1994-08-26; ETDE: 1976-08-04

*Subsurface water contained in pore spaces between the grains of rock and sediments.*

UF connate water  
UF formation water  
\*BT1 ground water  
RT natural gas wells  
RT oil wells  
RT pore pressure  
RT reservoir fluids  
RT reservoir rock  
RT sandstones

## INTERSTITIALS

1996-01-24

\*BT1 point defects  
NT1 i centers  
RT crowdions

## interuniversitair reactor instituut

ETDE: 1976-05-19

*Delft, the Netherlands.*

USE iri

## INTERVENORS

INIS: 2000-04-03; ETDE: 1977-09-19

(From July 1976 till February 1997 ADVERSARIES was a valid ETDE descriptor.)

SF adversaries

RT decision making  
RT interest groups  
RT legal aspects

## interventions

INIS: 2000-04-12; ETDE: 1980-08-25

(Prior to April 1994, this was a valid ETDE descriptor.)

USE administrative procedures

## intervertebral disks

INIS: 1984-04-04; ETDE: 2002-06-13

USE cartilage  
USE vertebrae

## INTESTINAL ABSORPTION

UF absorption (intestinal)

\*BT1 absorption  
BT1 uptake  
RT digestion  
RT ingestion  
RT oral administration  
RT portal system  
RT rectal administration  
RT small intestine

## INTESTINES

1996-07-18

\*BT1 gastrointestinal tract  
\*BT1 organs  
NT1 large intestine  
NT2 rectum  
NT1 small intestine  
RT aerobacter  
RT ascaridae  
RT constipation  
RT crypt cells  
RT diarrhea  
RT enteritis  
RT escherichia coli  
RT portal system

## INTOR TOKAMAK

INIS: 1980-09-12; ETDE: 1979-12-10

*International tokamak reactor.*

UF international tokamak reactor  
\*BT1 tokamak devices

## INTRACELLULAR DIGESTION

BT1 digestion  
RT animal cells  
RT phagocytosis

## INTRAMUSCULAR INJECTION

\*BT1 injection

## intranuclear cascades

USE nuclear cascades

## INTRAPERITONEAL INJECTION

\*BT1 injection  
RT peritoneum

## INTRATRACHEAL

### ADMINISTRATION

RT inhalation  
RT radionuclide administration  
RT trachea

## INTRAVENOUS INJECTION

\*BT1 injection  
RT veins

## INTRINSIC FACTOR

\*BT1 hematinics  
\*BT1 mucoproteins  
RT anemias  
RT hormones  
RT stomach  
RT vitamin b-12

## INTRONS

INIS: 1995-06-09; ETDE: 1994-02-25

RT dna  
RT exons  
RT gene regulation  
RT genes  
RT rna  
RT splicing

## intrusion

INIS: 2000-04-12; ETDE: 1978-04-06

(Prior to October 1990 this was a valid ETDE descriptor.)

SEE biointrusion  
SEE human intrusion  
SEE plutonic rocks  
SEE water influx

## intrusion (animals)

INIS: 1985-07-23; ETDE: 2002-06-13

USE biointrusion

## intrusion (human)

INIS: 1985-07-23; ETDE: 2002-06-13

USE human intrusion

## intrusion (plants)

INIS: 1985-07-23; ETDE: 2002-06-13

USE biointrusion

## intrusion (rock)

INIS: 1985-07-23; ETDE: 2002-06-13

*Process of emplacement of fluid material into pre-existing rock. Coordinate the descriptor below with other appropriate descriptor(s), e.g. POSITIONING, PETROGENESIS.*

USE plutonic rocks

## intrusion (water)

INIS: 1985-07-23; ETDE: 2002-06-13

USE water influx

## INTRUSION DETECTION SYSTEMS

INIS: 1999-01-05; ETDE: 1982-09-10

SF adaptive intrusion data systems  
BT1 alarm systems  
RT detection  
RT motion detection systems  
RT nuclear materials management  
RT physical protection  
RT safeguards  
RT security

## intrusive rocks

INIS: 1985-10-23; ETDE: 1985-11-13

*Rocks formed from emplacement of fluid material into pre-existing rock.*

USE plutonic rocks

## INULIN

\*BT1 polysaccharides  
RT polyacetals

## invap (argentina)

2003-03-18

USE argentine invap

## INVAR

\*BT1 iron base alloys  
\*BT1 nickel alloys

## INVARIANCE PRINCIPLES

NT1 c invariance  
NT1 charge independence  
NT1 conformal invariance  
NT1 cp invariance  
NT1 cpt theorem  
NT1 g-parity invariance  
NT1 gauge invariance  
NT1 lorentz invariance  
NT1 p invariance  
NT1 rotational invariance



- NT1 scale invariance  
 NT1 t invariance  
 NT2 detailed balance principle  
 RT adiabatic invariance  
 RT basic interactions  
 RT conservation laws  
 RT goldstone bosons  
 RT symmetry

**INVARIANT IMBEDDING**

- RT geometry  
 RT topology  
 RT transport theory

**invention secrecy act**

- INIS: 2000-04-12; ETDE: 1980-04-14  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 SEE laws  
 SEE secrecy protection

**INVENTIONS**

- INIS: 1994-07-01; ETDE: 1979-10-23  
 RT patents  
 RT technology transfer

**INVENTORIES**

- UF petroleum stocks  
 UF stocks  
 RT accounting  
 RT availability  
 RT losses  
 RT material balance  
 RT material unaccounted for  
 RT safeguards  
 RT shortages  
 RT storage  
 RT storage facilities

**inverse pinch devices (linear)**

- USE linear hard core pinch devices

**INVERSE SCATTERING PROBLEM**

- Problem of determining scattering potential from phase shifts.*  
 RT scattering

**inversions (temperature)**

- INIS: 1976-10-29; ETDE: 2002-06-13  
 USE temperature inversions

**INVERTEBRATES**

- 1997-06-17  
 BT1 animals  
 NT1 annelids  
 NT1 arthropods  
 NT2 arachnids  
 NT3 mites  
 NT3 scorpions  
 NT3 spiders  
 NT3 ticks  
 NT2 crustaceans  
 NT3 branchiopods  
 NT4 artemia  
 NT4 daphnia  
 NT3 copepods  
 NT3 decapods  
 NT4 crabs  
 NT4 lobsters  
 NT4 prawns  
 NT4 shrimp  
 NT2 insects  
 NT3 coleoptera  
 NT4 beetles  
 NT5 boll weevil  
 NT5 tribolium  
 NT3 dictyoptera  
 NT4 cockroaches  
 NT3 diptera  
 NT4 flies  
 NT5 fruit flies

- NT6 anastrepha  
 NT6 ceratitis capitata  
 NT6 dacus  
 NT7 dacus oleae  
 NT6 drosophila  
 NT5 glossina  
 NT5 hylemya antiqua  
 NT5 screwworm fly

- NT4 mosquitoes  
 NT3 ephemeroptera  
 NT3 hemiptera  
 NT4 aphids  
 NT3 hymenoptera  
 NT4 ants  
 NT4 bees  
 NT4 wasps  
 NT3 lepidoptera  
 NT4 moths  
 NT5 bollworm  
 NT5 codling moth  
 NT5 lymantria dispar  
 NT5 rice stem borers  
 NT5 silkworm  
 NT3 orthoptera  
 NT4 grasshoppers  
 NT5 locusts

- NT1 bryozoa  
 NT1 coelenterata  
 NT2 cnidaria  
 NT3 corals  
 NT3 hydra  
 NT1 echinoderms  
 NT2 sea urchins  
 NT1 molluscs  
 NT2 clams  
 NT2 mussels  
 NT2 oysters  
 NT2 snails  
 NT1 nematodes  
 NT2 ascaridae  
 NT3 ascaris  
 NT2 dictyocaulus  
 NT2 hookworm  
 NT2 trichinella  
 NT1 platyhelminths  
 NT2 cestodes  
 NT2 trematodes  
 NT3 fasciola  
 NT3 schistosoma  
 NT2 turbellaria  
 NT3 planaria

- NT1 protozoa  
 NT2 ciliata  
 NT3 paramecium  
 NT3 tetrahymena  
 NT2 mastigophora  
 NT3 dinoflagellate  
 NT3 euglena  
 NT3 trypanosoma  
 NT2 sarcodina  
 NT3 amoeba  
 NT3 foraminifera  
 NT2 sporozoa  
 NT3 babesidae  
 NT3 plasmodium  
 NT1 rotifera  
 RT parasites

**INVERTED STEPANOV METHOD**

- INIS: 1996-04-18; ETDE: 1980-02-11  
*An edge-defined film-growth method which uses nonwetted dies.*  
 SF stepanov method  
 BT1 crystal growth methods  
 RT crystal growth  
 RT efg method  
 RT sheets

**INVERTERS**

- INIS: 1976-09-06; ETDE: 1975-08-19  
*Excludes AC to DC converters for which use RECTIFIERS.*  
 UF dc to ac inverters  
 \*BT1 electrical equipment  
 RT dc to dc converters  
 RT power conditioning circuits  
 RT power supplies

**investigations**

- INIS: 2000-04-12; ETDE: 1980-07-09  
*For inquiries in the legalistic sense; not for scientific studies.*  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 SEE administrative procedures

**INVESTMENT**

- RT capital  
 RT cost  
 RT diversification  
 RT economics  
 RT euromarket  
 RT financing  
 RT interest rate  
 RT payback period  
 RT property values

**inviscid flow**

- 1986-03-04  
 USE ideal flow

**INVOICES**

- Itemized lists of goods shipped, usually specifying the price and the terms of sale.*  
 RT accounting  
 RT charges

**IODATES**

- Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
 \*BT1 iodine compounds  
 BT1 oxygen compounds  
 RT iodide acid

**iodex process**

- 2000-04-12  
 USE iodex process

**IODIC ACID**

- \*BT1 inorganic acids  
 \*BT1 iodine compounds  
 BT1 oxygen compounds  
 RT iodates

**IODIDES**

- 1997-06-17  
 \*BT1 halides  
 \*BT1 iodine compounds  
 NT1 aluminium iodides  
 NT1 americium iodides  
 NT1 antimony iodides  
 NT1 argon iodides  
 NT1 arsenic iodides  
 NT1 astatine iodides  
 NT1 barium iodides  
 NT1 beryllium iodides  
 NT1 bismuth iodides  
 NT1 boron iodides  
 NT1 cadmium iodides  
 NT1 calcium iodides  
 NT1 californium iodides  
 NT1 cerium iodides  
 NT1 cesium iodides  
 NT1 chromium iodides  
 NT1 cobalt iodides  
 NT1 copper iodides  
 NT1 curium iodides

NT1 dysprosium iodides  
 NT1 einsteinium iodides  
 NT1 erbium iodides  
 NT1 europium iodides  
 NT1 fermium iodides  
 NT1 gadolinium iodides  
 NT1 gallium iodides  
 NT1 germanium iodides  
 NT1 gold iodides  
 NT1 hafnium iodides  
 NT1 holmium iodides  
 NT1 indium iodides  
 NT1 iron iodides  
 NT1 lanthanum iodides  
 NT1 lead iodides  
 NT1 lithium iodides  
 NT1 lutetium iodides  
 NT1 magnesium iodides  
 NT1 manganese iodides  
 NT1 mercury iodides  
 NT1 molybdenum iodides  
 NT1 neodymium iodides  
 NT1 neon iodides  
 NT1 neptunium iodides  
 NT1 nickel iodides  
 NT1 niobium iodides  
 NT1 nitrogen iodides  
 NT1 palladium iodides  
 NT1 phosphorus iodides  
 NT1 platinum iodides  
 NT1 plutonium iodides  
 NT1 polonium iodides  
 NT1 potassium iodides  
 NT1 praseodymium iodides  
 NT1 promethium iodides  
 NT1 protactinium iodides  
 NT1 rhenium iodides  
 NT1 rubidium iodides  
 NT1 samarium iodides  
 NT1 scandium iodides  
 NT1 selenium iodides  
 NT1 silicon iodides  
 NT1 silver iodides  
 NT1 sodium iodides  
 NT1 strontium iodides  
 NT1 tantalum iodides  
 NT1 technetium iodides  
 NT1 tellurium iodides  
 NT1 terbium iodides  
 NT1 thallium iodides  
 NT1 thorium iodides  
 NT1 thulium iodides  
 NT1 tin iodides  
 NT1 titanium iodides  
 NT1 tungsten iodides  
 NT1 uranium iodides  
 NT1 vanadium iodides  
 NT1 xenon iodides  
 NT1 ytterbium iodides  
 NT1 yttrium iodides  
 NT1 zinc iodides  
 NT1 zirconium iodides  
 RT hydriodic acid  
 RT oxyiodides

### IODINATED ALICYCLIC HYDROCARBONS

2000-04-12

\*BT1 halogenated alicyclic hydrocarbons  
 \*BT1 organic iodine compounds

### IODINATED ALIPHATIC HYDROCARBONS

1991-09-30

(Prior to October 1991, this concept was indexed by ORGANIC IODINE COMPOUNDS.)

\*BT1 halogenated aliphatic hydrocarbons  
 \*BT1 organic iodine compounds

NT1 iodoform  
 NT1 methyl iodide

### IODINATED AROMATIC HYDROCARBONS

1991-10-01

\*BT1 halogenated aromatic hydrocarbons  
 \*BT1 organic iodine compounds

#### iodinated hydrocarbons

ETDE: 2002-06-13

USE organic iodine compounds

### IODINATION

\*BT1 halogenation  
 RT deiodination

### IODINE

UF iodine iodides  
 \*BT1 halogens  
 RT iodine additions  
 RT iodox process  
 RT lugol  
 RT thyroglobulin  
 RT thyroid  
 RT thyroid hormones

### IODINE 108

INIS: 1991-03-22; ETDE: 1991-04-09

\*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

### IODINE 109

INIS: 1984-06-21; ETDE: 1984-07-10

\*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes

### IODINE 110

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

### IODINE 111

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

### IODINE 112

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### IODINE 113

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

### IODINE 114

INIS: 1978-02-23; ETDE: 1978-03-08

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### IODINE 115

1978-07-03

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### IODINE 116

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### IODINE 117

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### IODINE 118

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### IODINE 119

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### IODINE 120

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### IODINE 121

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-even nuclei

### IODINE 122

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iodine isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**IODINE 123**

- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei

**IODINE 124**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-odd nuclei

**IODINE 125**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei

**IODINE 126**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-odd nuclei

**IODINE 127**

- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**IODINE 127 BEAMS**

- INIS: 1979-04-27; ETDE: 1979-05-25*  
 \*BT1 ion beams

**IODINE 127 REACTIONS**

- 1984-05-28*  
 \*BT1 heavy ion reactions

**IODINE 127 TARGET**

- ETDE: 1976-07-09*  
 BT1 targets

**IODINE 128**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 128 TARGET**

- INIS: 1984-07-20; ETDE: 1984-08-20*  
 BT1 targets

**IODINE 129**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**IODINE 129 TARGET**

- ETDE: 1976-07-09*  
 BT1 targets

**IODINE 130**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes

- \*BT1 odd-odd nuclei

**IODINE 131**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei

**IODINE 132**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei

**IODINE 133**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IODINE 134**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 135**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei

**IODINE 136**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IODINE 137**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IODINE 138**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IODINE 139**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IODINE 140**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes

- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**IODINE 142**

*INIS: 1986-04-28; ETDE: 1986-07-03*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 143**

*2007-11-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei

**IODINE 144**

*2007-11-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-odd nuclei

**IODINE ADDITIONS**

*INIS: 1976-07-16; ETDE: 1976-09-15*  
 RT iodine

**IODINE BROMIDES**

- UF bromine iodides*  
 \*BT1 bromides  
 \*BT1 iodine compounds

**IODINE CHLORIDES**

- UF chlorine iodides*  
 \*BT1 chlorides  
 \*BT1 iodine compounds

**IODINE COMPLEXES**

- BT1 complexes

**IODINE COMPOUNDS**

- BT1 halogen compounds  
 NT1 hydriodic acid  
 NT1 hypoiodous acid  
 NT1 iodates  
 NT1 iodic acid  
 NT1 iodides  
 NT2 aluminium iodides  
 NT2 americium iodides  
 NT2 antimony iodides  
 NT2 argon iodides  
 NT2 arsenic iodides  
 NT2 astatine iodides  
 NT2 barium iodides  
 NT2 beryllium iodides  
 NT2 bismuth iodides  
 NT2 boron iodides  
 NT2 cadmium iodides  
 NT2 calcium iodides  
 NT2 californium iodides  
 NT2 cerium iodides  
 NT2 cesium iodides  
 NT2 chromium iodides  
 NT2 cobalt iodides  
 NT2 copper iodides  
 NT2 curium iodides  
 NT2 dysprosium iodides  
 NT2 einsteinium iodides  
 NT2 erbium iodides  
 NT2 europium iodides  
 NT2 fermium iodides  
 NT2 gadolinium iodides  
 NT2 gallium iodides  
 NT2 germanium iodides  
 NT2 gold iodides  
 NT2 hafnium iodides  
 NT2 holmium iodides  
 NT2 indium iodides  
 NT2 iron iodides  
 NT2 lanthanum iodides

NT2 lead iodides  
 NT2 lithium iodides  
 NT2 lutetium iodides  
 NT2 magnesium iodides  
 NT2 manganese iodides  
 NT2 mercury iodides  
 NT2 molybdenum iodides  
 NT2 neodymium iodides  
 NT2 neon iodides  
 NT2 neptunium iodides  
 NT2 nickel iodides  
 NT2 niobium iodides  
 NT2 nitrogen iodides  
 NT2 palladium iodides  
 NT2 phosphorus iodides  
 NT2 platinum iodides  
 NT2 plutonium iodides  
 NT2 polonium iodides  
 NT2 potassium iodides  
 NT2 praseodymium iodides  
 NT2 promethium iodides  
 NT2 protactinium iodides  
 NT2 rhenium iodides  
 NT2 rubidium iodides  
 NT2 samarium iodides  
 NT2 scandium iodides  
 NT2 selenium iodides  
 NT2 silicon iodides  
 NT2 silver iodides  
 NT2 sodium iodides  
 NT2 strontium iodides  
 NT2 tantalum iodides  
 NT2 technetium iodides  
 NT2 tellurium iodides  
 NT2 terbium iodides  
 NT2 thallium iodides  
 NT2 thorium iodides  
 NT2 thulium iodides  
 NT2 tin iodides  
 NT2 titanium iodides  
 NT2 tungsten iodides  
 NT2 uranium iodides  
 NT2 vanadium iodides  
 NT2 xenon iodides  
 NT2 ytterbium iodides  
 NT2 yttrium iodides  
 NT2 zinc iodides  
 NT2 zirconium iodides  
 NT1 iodine bromides  
 NT1 iodine chlorides  
 NT1 iodine fluorides  
 NT1 iodine oxides  
 NT1 oxyiodides  
 NT1 periodates  
 NT1 periodic acid  
 RT organic iodine compounds

**IODINE FLUORIDES**

UF *fluorine iodides*

\*BT1 fluorides

\*BT1 iodine compounds

**iodine iodides**

USE iodine

**IODINE IONS**

\*BT1 ions

**IODINE ISOTOPES**

1999-07-16

BT1 isotopes

NT1 iodine 108

NT1 iodine 109

NT1 iodine 110

NT1 iodine 111

NT1 iodine 112

NT1 iodine 113

NT1 iodine 114

NT1 iodine 115

NT1 iodine 116

NT1 iodine 117

NT1 iodine 118

NT1 iodine 119

NT1 iodine 120

NT1 iodine 121

NT1 iodine 122

NT1 iodine 123

NT1 iodine 124

NT1 iodine 125

NT1 iodine 126

NT1 iodine 127

NT1 iodine 128

NT1 iodine 129

NT1 iodine 130

NT1 iodine 131

NT1 iodine 132

NT1 iodine 133

NT1 iodine 134

NT1 iodine 135

NT1 iodine 136

NT1 iodine 137

NT1 iodine 138

NT1 iodine 139

NT1 iodine 140

NT1 iodine 141

NT1 iodine 142

NT1 iodine 143

NT1 iodine 144

**IODINE LASERS**

1995-07-21

\*BT1 gas lasers

**IODINE NUMBER**

2000-04-12

*A measure of the unsaturation of a substance, as an oil or fat.*

RT chemical composition

**IODINE OXIDES**

\*BT1 iodine compounds

\*BT1 oxides

RT oxyiodides

**iodochloroquine**

INIS: 1996-10-23; ETDE: 1981-09-22

(Until October 1996 this was a valid descriptor.)

USE organic chlorine compounds

USE organic iodine compounds

**IODODEOXYURIDINE**

UF *iudr*

\*BT1 iodouracils

\*BT1 nucleosides

RT deoxyuridine

**IODOFORM**

\*BT1 iodinated aliphatic hydrocarbons

RT hydrocarbons

RT methane

**iodohippurate**

INIS: 1975-10-23; ETDE: 2002-06-13

USE hippuran

**iodohippurate-na**

INIS: 2000-04-12; ETDE: 1980-08-12

USE hippuran

**IODOMETRY**

\*BT1 titration

**iodopyracet**

1996-07-18

(Prior to March 1997 DIODRAST was used for this concept in ETDE.)

USE contrast media

USE heterocyclic acids

USE organic iodine compounds

USE pyridines

**IODOURACILS**

\*BT1 antimetabolites

\*BT1 organic iodine compounds

\*BT1 uracils

NT1 iododeoxyuridine

**IODOX PROCESS**

UF *iodex process*

\*BT1 reprocessing

RT iodine

RT methyl iodide

RT radioactive waste processing

**ioglycamic acid**

INIS: 1996-10-23; ETDE: 1975-12-16

(Until October 1996 this was a valid descriptor.)

USE amides

USE ethers

USE monocarboxylic acids

USE organic iodine compounds

**IOHEXOL**

INIS: 1983-06-30; ETDE: 1983-07-20

BT1 contrast media

**ION ACOUSTIC WAVES**

1997-04-30

*Non-dispersive ion waves.*

UF *non-dispersive ion waves*

UF *nondispersive ion waves*

\*BT1 ion waves

RT sonic probes

RT sound waves

**ION-ATOM COLLISIONS**

UF *proton-atom collisions*

\*BT1 atom collisions

\*BT1 ion collisions

RT electron-promotion model

**ION BEAM FUSION REACTORS**

INIS: 1995-07-21; ETDE: 1983-02-09

UF *i-beam type reactors*

UF *ion beam type reactors*

BT1 thermonuclear reactors

RT icf devices

RT inertial confinement

RT inertial fusion drivers

RT particle beam fusion accelerator

**ION BEAM INJECTION**

BT1 beam injection

NT1 molecular ion beam injection

**ION BEAM TARGETS**

INIS: 1982-11-30; ETDE: 1978-09-11

SF *icf targets*

SF *inertial confinement fusion targets*

BT1 targets

RT electron beam targets

RT inertial confinement

RT laser targets

RT thermonuclear fuels

**ion beam type reactors**

INIS: 1982-11-30; ETDE: 1976-09-15

USE ion beam fusion reactors

**ION BEAMS**

1996-07-18

BT1 beams

NT1 aluminium 27 beams

NT1 argon 38 beams

NT1 argon 40 beams

NT1 beryllium 9 beams

NT1 bismuth 209 beams

NT1 boron 10 beams

NT1 boron 11 beams

NT1 bromine 79 beams

NT1 calcium 40 beams

NT1 calcium 48 beams

NT1 carbon 12 beams  
 NT1 carbon 13 beams  
 NT1 chlorine 35 beams  
 NT1 chlorine 37 beams  
 NT1 copper 63 beams  
 NT1 deuteron beams  
 NT1 fluorine 19 beams  
 NT1 gadolinium 155 beams  
 NT1 germanium 74 beams  
 NT1 germanium 76 beams  
 NT1 gold 197 beams  
 NT1 helium 3 beams  
 NT1 helium 4 beams  
 NT2 alpha beams  
 NT1 hydrogen 1 minus beams  
 NT1 iodine 127 beams  
 NT1 iron 56 beams  
 NT1 iron 58 beams  
 NT1 krypton 84 beams  
 NT1 krypton 86 beams  
 NT1 lanthanum 139 beams  
 NT1 lead 208 beams  
 NT1 lithium 6 beams  
 NT1 lithium 7 beams  
 NT1 magnesium 24 beams  
 NT1 magnesium 25 beams  
 NT1 neon 20 beams  
 NT1 neon 22 beams  
 NT1 nickel 58 beams  
 NT1 nickel 60 beams  
 NT1 nitrogen 14 beams  
 NT1 nitrogen 15 beams  
 NT1 oxygen 16 beams  
 NT1 oxygen 18 beams  
 NT1 phosphorus 31 beams  
 NT1 potassium 39 beams  
 NT1 potassium 41 beams  
 NT1 radioactive ion beams  
 NT2 argon 39 beams  
 NT2 beryllium 7 beams  
 NT2 carbon 10 beams  
 NT2 carbon 11 beams  
 NT2 carbon 14 beams  
 NT2 chlorine 39 beams  
 NT2 helium 8 beams  
 NT2 neon 19 beams  
 NT2 nitrogen 13 beams  
 NT2 sulfur 38 beams  
 NT2 triton beams  
 NT2 uranium 238 beams  
 NT1 silicon 28 beams  
 NT1 silicon 29 beams  
 NT1 silver 107 beams  
 NT1 sodium 23 beams  
 NT1 sulfur 32 beams  
 NT1 tin 120 beams  
 NT1 titanium 48 beams  
 NT1 titanium 50 beams  
 NT1 tungsten 184 beams  
 NT1 xenon 129 beams  
 NT1 xenon 131 beams  
 NT1 xenon 132 beams  
 NT1 xenon 136 beams  
 RT anions  
 RT beam strippers  
 RT cations  
 RT charge distribution  
 RT charged particles  
 RT heavy ions  
 RT ion implantation  
 RT ion probes  
 RT ion scattering analysis  
 RT ion spectroscopy  
 RT ions  
 RT light ions  
 RT migma devices  
 RT particle beams  
 RT sputtering

**ion blocking**

USE ion channeling

**ION CHANNELING**

UF ion blocking  
 BT1 channeling  
 RT crystal lattices  
 RT ions

**ion clusters**

USE ion pairs

**ION COLLISIONS**

BT1 collisions  
 NT1 electron-ion collisions  
 NT1 ion-atom collisions  
 NT1 ion-ion collisions  
 NT1 ion-molecule collisions  
 NT1 photon-ion collisions  
 NT1 positron-ion collisions

**ION CYCLOTRON-RESONANCE**

INIS: 1983-12-01; ETDE: 1984-01-27

UF icr  
 \*BT1 cyclotron resonance  
 RT icr heating

**ion cyclotron-resonance heating**

USE icr heating

**ION CYCLOTRON RESONANCE SPECTROSCOPY**

INIS: 2000-04-12; ETDE: 1976-03-22

\*BT1 ion spectroscopy  
 RT cyclotron resonance

**ION DENSITY**

UF density (ion)  
 RT ions

**ION DETECTION**

\*BT1 charged particle detection  
 RT heavy ions  
 RT ion dosimetry  
 RT ions  
 RT light ions

**ION DOSIMETRY**

BT1 dosimetry  
 RT ion detection

**ion-drag accelerators**

USE electron-ring accelerators

**ION DRIFT**

UF drift (ion)  
 RT ambipolar diffusion  
 RT ions

**ION EMISSION**

BT1 emission  
 RT field emission

**ION EXCHANGE**

UF cation exchange capacity  
 UF exchange (ion)  
 UF ligand exchange  
 RT demineralization  
 RT desalination  
 RT distribution functions  
 RT ion exchange chromatography  
 RT separation processes

**ION EXCHANGE****CHROMATOGRAPHY**

\*BT1 chromatography  
 RT distribution functions  
 RT ion exchange  
 RT ion exchange materials  
 RT leaching  
 RT resins

**ION EXCHANGE MATERIALS**

UF decalco  
 UF ion exchange membranes  
 BT1 materials  
 NT1 inorganic ion exchangers  
 NT2 bentonite  
 NT2 montmorillonite  
 NT2 mullite  
 NT2 vermiculite  
 NT2 zeolites  
 NT3 clinoptilolite  
 NT3 faujasite  
 NT3 heulandite  
 NT3 laumontite  
 NT3 mordenite  
 NT3 wairakite  
 NT1 liquid ion exchangers  
 NT1 mixed bed ion exchangers  
 NT1 organic ion exchangers  
 NT2 polystyrene-dvb  
 RT anions  
 RT cations  
 RT graft polymers  
 RT ion exchange chromatography  
 RT leaching  
 RT resins  
 RT silica gel

**ion exchange membranes**

USE ion exchange materials  
 USE membranes

**ION IMPLANTATION**

RT crystal doping  
 RT crystals  
 RT doped materials  
 RT inclusions  
 RT ion beams  
 RT ions  
 RT trace amounts

**ION-ION COLLISIONS**

\*BT1 ion collisions

**ION MICROPROBE ANALYSIS**

UF sims  
 BT1 microanalysis  
 \*BT1 nondestructive analysis  
 RT ion probes

**ION MICROSCOPES**

BT1 microscopes

**ION MICROSCOPY**

UF field emission microscopy  
 UF field ion microscopy  
 BT1 microscopy  
 RT field emission

**ION MOBILITY**

ETDE: 1975-07-29

\*BT1 particle mobility  
 RT ions

**ION-MOBILITY DETECTORS**

INIS: 1999-12-31; ETDE: 1980-03-04

ionization chambers with a corona discharge  
ionization source for vapor analysis.

BT1 measuring instruments  
 RT drift chambers  
 RT gas analysis  
 RT ionization chambers

**ION-MOLECULE COLLISIONS**

UF proton-molecule collisions  
 \*BT1 ion collisions  
 \*BT1 molecule collisions

**ION-NEUTRALIZATION SPECTROSCOPY**

BT1 spectroscopy

**ION PAIRS**

- UF clusters (ion)
- UF ion clusters
- RT atomic clusters
- RT ions

**ION PLASMA WAVES**

- Dispersive ion waves.
- UF dispersive ion waves
- \*BT1 ion waves

**ION PROBES**

- BT1 probes
- RT chemical analysis
- RT deuteron probes
- RT ion beams
- RT ion microprobe analysis
- RT ion sources
- RT proton probes
- RT secondary beams
- RT secondary emission

**ION PROPULSION**

- INIS: 1976-02-18; ETDE: 1976-04-19
- Vehicular motion caused by reaction from the high-speed discharge of a beam of ions.
- BT1 propulsion
- RT ion thrusters

**ION RINGS**

- INIS: 1975-12-19; ETDE: 1976-08-24
- RT confinement
- RT magnetic confinement
- RT minimum-b configurations

**ION SCATTERING ANALYSIS**

- \*BT1 nondestructive analysis
- RT ion beams
- RT radiation scattering analysis
- RT scattering

**ION SELECTIVE ELECTRODE ANALYSIS**

- BT1 chemical analysis
- RT electrodes

**ION SELECTIVE ELECTRODES**

- INIS: 2000-04-12; ETDE: 1982-07-27
- BT1 electrodes

**ION SOURCES**

- NT1 alpha sources
- NT1 duoplasmatrons
- NT1 ecr ion sources
- NT1 electron beam ion sources
- NT1 penning ion sources
- NT1 triplasmats
- RT atomic beam sources
- RT ion probes
- RT ions
- RT neutral beam sources
- RT particle sources

**ION SPECTROSCOPY**

- UF beam-foil spectroscopy
- UF beam-gas spectroscopy
- BT1 spectroscopy
- NT1 ion cyclotron resonance spectroscopy
- RT ion beams
- RT rutherford backscattering spectroscopy

**ION TEMPERATURE**

- UF plasma temperature
- UF temperature (ion)
- RT energy
- RT ions

**ION THRUSTERS**

- INIS: 1975-10-23; ETDE: 1975-12-16
- BT1 thrusters
- RT ion propulsion

- RT propulsion
- RT propulsion systems
- RT surface ionization

**ION WAVE INSTABILITY**

- \*BT1 plasma microinstabilities
- RT bernstein mode

**ION WAVES**

- BT1 plasma waves
- NT1 ion acoustic waves
- NT1 ion plasma waves
- RT bernstein mode

**IONIC COMPOSITION**

- RT chemical composition
- RT ionosphere
- RT ions
- RT plasma

**IONIC CONDUCTIVITY**

- \*BT1 electric conductivity
- NT1 proton conductivity

**IONIC CRYSTALS**

- BT1 crystals

**ionic potential**

- INIS: 2000-04-12; ETDE: 1979-02-23
- Valence divided by ionic radius.
- (Prior to March 1997 this was a valid ETDE descriptor.)
- USE valence

**ionic reactions**

- USE chemical reactions
- USE ions

**ionics electrolytic regeneration process**

- INIS: 2000-04-12; ETDE: 1977-04-12
- Electrolytic cell technology to convert sodium sulfate solution to caustic and sulfuric acid.
- Sulfate ions formed by oxidation are purged from the scrubbing loop as dilute sulfuric acid.
- (Prior to January 1995, this was a valid ETDE descriptor.)
- USE desulfurization

**IONIZATION**

- UF discharges (ionization)
- NT1 autoionization
- NT1 coulomb ionization
- NT1 inner-shell ionization
- NT1 internal ionization
- NT1 photoionization
- NT1 surface ionization
- NT2 adiabatic surface ionization
- RT beam neutralization
- RT bragg curve
- RT buildup
- RT charge exchange
- RT charge states
- RT dissociation
- RT electron attachment
- RT electron detachment
- RT electron loss
- RT energy absorption
- RT energy losses
- RT fano factor
- RT ionization potential
- RT ionizing radiations
- RT jesse effect
- RT kerma
- RT let
- RT penning effect
- RT plasma production
- RT plasma seeding
- RT radiation quality
- RT wall effects

**ionization calorimeters**

- 2000-04-12
- USE shower counters

**ionization chamber smoke detectors**

- INIS: 1993-11-08; ETDE: 2002-06-13
- USE smoke detectors

**IONIZATION CHAMBERS**

- \*BT1 radiation detectors
- NT1 boron coated ion chambers
- NT1 bragg gray chambers
- NT1 condenser ionization chambers
- NT1 extrapolation chambers
- NT1 fission chambers
- NT1 liquid ionization chambers
- NT1 multiwire ionization chambers
- RT avalanche quenching
- RT campbelling circuits
- RT electron-capture detectors
- RT ion-mobility detectors
- RT multiwire proportional chambers
- RT wall effects
- RT wall-less counters

**IONIZATION FRONT ACCELERATORS**

- INIS: 1991-12-17; ETDE: 1979-05-25
- Collective effect accelerator that produces controlled motion of a potential well at the head of an intense relativistic electron beam.
- \*BT1 collective accelerators

**IONIZATION GAGES**

- \*BT1 vacuum gages
- NT1 bayard-alpert gages
- NT1 philips gages
- NT1 radioactive ionization gages

**ionization loss**

- USE energy losses

**IONIZATION POTENTIAL**

- RT binding energy
- RT electric potential
- RT electronegativity
- RT ionization
- RT plasma seeding

**IONIZED GASES**

- \*BT1 gases
- NT1 fully ionized gases
- NT2 lorentz gas
- NT1 strongly ionized gases
- NT1 weakly ionized gases
- RT fokker-planck equation
- RT plasma

**IONIZING RADIATIONS**

- BT1 radiations
- NT1 alpha particles
- NT2 cosmic alpha particles
- NT2 delayed alpha particles
- NT2 solar alpha particles
- NT1 beta particles
- NT1 cosmic radiation
- NT2 cosmic neutrinos
- NT2 cosmic photons
- NT2 cosmic protons
- NT2 hard component
- NT2 primary cosmic radiation
- NT3 cosmic alpha particles
- NT3 cosmic gamma bursts
- NT3 cosmic nuclei
- NT3 cosmic x-ray bursts
- NT2 secondary cosmic radiation
- NT3 cosmic electrons
- NT3 cosmic kaons
- NT3 cosmic muons
- NT3 cosmic neutrons
- NT3 cosmic pions

- NT3 cosmic positrons
- NT3 cosmic showers
- NT4 extensive air showers
- NT2 soft component
- NT1 gamma radiation
- NT2 delayed gamma radiation
- NT2 prompt gamma radiation
- NT1 x radiation
- NT2 hard x radiation
- NT2 soft x radiation
- RT buildup
- RT delta rays
- RT dose equivalents
- RT energy losses
- RT environmental exposure
- RT ionization
- RT mutagens
- RT occupational exposure
- RT teratogens

**IONOGRAPHIC IMAGING**

INIS: 1999-03-30; ETDE: 1976-08-24

A process whereby a pattern of electrical charges is formed on a foil by the accumulation of ions from a gas of high atomic number ionized by the incident radiation.

\*BT1 biomedical radiography

**ionophoresis**

USE electrophoresis

**IONOSONDES**

- \*BT1 radio equipment
- RT measuring instruments
- RT space vehicles

**IONOSPHERE**

- UF ionospheric effects
- BT1 earth atmosphere
- NT1 c region
- NT1 d region
- NT1 e region
- NT2 sporadic e
- NT1 f region
- NT2 f1 layer
- NT2 f2 layer
- NT2 spread f
- RT auroral hiss
- RT auroral oval
- RT auroral zones
- RT critical frequency
- RT harang discontinuity
- RT ionic composition
- RT midday aurorae
- RT polar-cap aurorae
- RT polar cusp
- RT scale height
- RT sudden ionospheric disturbance
- RT travelling ionospheric disturbance
- RT virtual height

**ionospheric effects**

INIS: 2000-04-12; ETDE: 1982-05-12

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE disturbances
- USE ionosphere

**IONOSPHERIC STORMS**

1975-11-07

- BT1 disturbances
- NT1 sudden ionospheric disturbance
- NT1 travelling ionospheric disturbance
- RT f region
- RT magnetic storms

**IONS**

1996-07-18

Ions in liquid and solid solutions are indexed as compounds; ions in gases by the

precoordinated descriptor consisting of the element name and the word IONS; ions in beams by assigning either the specific descriptor if available, e.g. ARGON 40 BEAMS or the isotope name together with ION BEAMS.

- UF ionic reactions
- UF mendelevium ions
- UF nobelium ions
- BT1 charged particles
- NT1 actinium ions
- NT1 aluminium ions
- NT1 americium ions
- NT1 anions
- NT2 heteropolyanions
- NT2 hydrogen ions 1 minus
- NT1 antimony ions
- NT1 argon ions
- NT1 arsenic ions
- NT1 astatine ions
- NT1 atomic ions
- NT1 barium ions
- NT1 berkelium ions
- NT1 beryllium ions
- NT1 bismuth ions
- NT1 boron ions
- NT1 bromine ions
- NT1 cadmium ions
- NT1 calcium ions
- NT1 californium ions
- NT1 carbon ions
- NT1 cations
- NT2 hydrogen ions 1 plus
- NT2 hydrogen ions 2 plus
- NT2 hydrogen ions 3 plus
- NT1 cerium ions
- NT1 cesium ions
- NT1 chlorine ions
- NT1 chromium ions
- NT1 cobalt ions
- NT1 copper ions
- NT1 curium ions
- NT1 deuterium ions
- NT1 dysprosium ions
- NT1 einsteinium ions
- NT1 erbium ions
- NT1 europium ions
- NT1 fermium ions
- NT1 fluorine ions
- NT1 francium ions
- NT1 gadolinium ions
- NT1 gallium ions
- NT1 germanium ions
- NT1 gold ions
- NT1 hafnium ions
- NT1 heavy ions
- NT1 helium ions
- NT2 helium ash
- NT1 holmium ions
- NT1 hydrogen ions
- NT2 hydrogen ions 1 minus
- NT2 hydrogen ions 1 plus
- NT2 hydrogen ions 2 plus
- NT2 hydrogen ions 3 plus
- NT1 indium ions
- NT1 iodine ions
- NT1 iridium ions
- NT1 iron ions
- NT1 krypton ions
- NT1 lanthanum ions
- NT1 lead ions
- NT1 light ions
- NT1 lithium ions
- NT1 lutetium ions
- NT1 magnesium ions
- NT1 manganese ions
- NT1 mercury ions
- NT1 molecular ions
- NT2 hydrogen ions 2 plus

NT2 hydrogen ions 3 plus

- NT2 oxonium ions
- NT1 molybdenum ions
- NT1 multicharged ions
- NT1 muonic ions
- NT1 neodymium ions
- NT1 neon ions
- NT1 neptunium ions
- NT1 nickel ions
- NT1 niobium ions
- NT1 nitrogen ions
- NT1 osmium ions
- NT1 oxygen ions
- NT1 palladium ions
- NT1 phosphorus ions
- NT1 platinum ions
- NT1 plutonium ions
- NT1 polonium ions
- NT1 potassium ions
- NT1 praseodymium ions
- NT1 promethium ions
- NT1 protactinium ions
- NT1 radium ions
- NT1 radon ions
- NT1 rhenium ions
- NT1 rhodium ions
- NT1 rubidium ions
- NT1 ruthenium ions
- NT1 samarium ions
- NT1 scandium ions
- NT1 selenium ions
- NT1 silicon ions
- NT1 silver ions
- NT1 sodium ions
- NT1 strontium ions
- NT1 sulfur ions
- NT1 tail ions
- NT1 tantalum ions
- NT1 technetium ions
- NT1 tellurium ions
- NT1 terbium ions
- NT1 thallium ions
- NT1 thorium ions
- NT1 thulium ions
- NT1 tin ions
- NT1 titanium ions
- NT1 tritium ions
- NT1 tungsten ions
- NT1 uranium ions
- NT1 vanadium ions
- NT1 xenon ions
- NT1 ytterbium ions
- NT1 yttrium ions
- NT1 zinc ions
- NT1 zirconium ions
- RT battery charge state
- RT charge states
- RT charged-particle reactions
- RT ion beams
- RT ion channeling
- RT ion density
- RT ion detection
- RT ion drift
- RT ion implantation
- RT ion mobility
- RT ion pairs
- RT ion sources
- RT ion temperature
- RT ionic composition
- RT translocation

**ions (atomic)**

INIS: 2000-04-12; ETDE: 1975-12-16

USE atomic ions

**ions (molecular)**

INIS: 2000-04-12; ETDE: 1975-12-16

USE molecular ions

**IOPAMIDOL**

INIS: 1984-02-22; ETDE: 1984-03-06

BT1 contrast media

**iota-1440 resonances**

INIS: 1987-12-21; ETDE: 1984-12-26

(Prior to December 1987 this was a valid descriptor.)

USE eta-1440 mesons

**IOWA**

\*BT1 usa

RT ames laboratory

RT mississippi river

RT missouri river

**IOWA UTR-10 REACTOR**

University Test Reactor, Iowa State Univ., Ames, Iowa, USA.

UF ames, iowa state university utr-10 reactor

UF utr-10 iowa state university reactor

\*BT1 graphite moderated reactors

\*BT1 training reactors

\*BT1 water cooled reactors

**IPCR CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24

Separated-sector cyclotron of the Institute of Physical and Chemical Research, Saitama, Japan.

UF institute of physical and chemical research cyclotron

UF riken ssc

UF saitama cyclotron

\*BT1 heavy ion accelerators

\*BT1 isochronous cyclotrons

**ipcr linac**

INIS: 1986-05-23; ETDE: 2002-06-13

USE rilac

**IPEN-MB-1 REACTOR**

INIS: 1991-08-15; ETDE: 1991-09-13

Instituto de Pesquisas Energeticas e Nucleares, Sao Paulo, Brazil.

\*BT1 zero power reactors

**IPNS-I SYNCHROTRON**

INIS: 1980-11-07; ETDE: 1979-07-18

Intense Pulsed Neutron Source; 500-MeV rapid cycling synchrotron at ANL.

BT1 neutron source facilities

\*BT1 synchrotrons

**IPP GARCHING**

Max-Planck-Institut fuer Plasmaphysik.

UF garching ipp

UF max-planck-institut fuer plasmaphysik

\*BT1 german fr organizations

**ipr-1 reactor**

2005-02-09

Instituto de Pesquisas Radioativas Nucleares, Cidade Universitaria-Pampulma, Minas Gerais, Brazil.

USE triga-brazil reactor

**iproniazid**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE antidepressants

USE isoniazid

**iqsy**

USE international quiet sun year

**IR-100 REACTOR**

2005-06-02

Sevastopol Inst. of Nuclear Energy And Industry, Sevastopol, Ukraine.

\*BT1 experimental reactors

\*BT1 pool type reactors

\*BT1 training reactors

**IRAN**

BT1 asia

BT1 developing countries

BT1 middle east

RT caspian sea

RT opec

**IRAN-1 REACTOR**

INIS: 1977-06-14; ETDE: 1977-10-20

UF bushehr-1 reactor

\*BT1 pwr type reactors

**IRAN-2 REACTOR**

INIS: 1977-06-14; ETDE: 1977-10-20

UF bushehr-2 reactor

\*BT1 pwr type reactors

**IRANIAN ATOMIC ENERGY ORGANIZATION**

INIS: 1976-10-07; ETDE: 1976-11-01

\*BT1 iranian organizations

**IRANIAN ORGANIZATIONS**

INIS: 1976-10-07; ETDE: 1976-11-01

BT1 national organizations

NT1 iranian atomic energy organization

NT1 tehran nuclear research centre

**IRAQ**

BT1 arab countries

BT1 asia

BT1 developing countries

BT1 middle east

RT oapec

RT opec

RT tigris river

**IRAQI ATOMIC ENERGY COMMISSION**

INIS: 1985-06-10; ETDE: 1985-07-19

\*BT1 iraqi organizations

NT1 iraqi nuclear research centre

**IRAQI NUCLEAR RESEARCH CENTRE**

INIS: 1985-06-10; ETDE: 1985-07-19

\*BT1 iraqi atomic energy commission

**IRAQI ORGANIZATIONS**

INIS: 1985-06-10; ETDE: 1985-07-18

BT1 national organizations

NT1 iraqi atomic energy commission

NT2 iraqi nuclear research centre

**IRELAND**

1995-04-03

BT1 developed countries

\*BT1 western europe

RT oecd

**IRI**

Interuniversitair Reactor Instituut, Delft, the Netherlands.

UF interuniversitair reactor instituut

\*BT1 netherlands organizations

**IRIDIUM**

\*BT1 platinum metals

\*BT1 refractory metals

**IRIDIUM 164**

2007-07-10

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 microseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

**IRIDIUM 165**

2007-07-10

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 microseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

**IRIDIUM 166**

INIS: 1986-05-08; ETDE: 1986-07-03

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**IRIDIUM 167**

INIS: 1986-05-08; ETDE: 1986-07-03

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**IRIDIUM 168**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 odd-odd nuclei

**IRIDIUM 169**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**IRIDIUM 170**

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**IRIDIUM 171**

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**IRIDIUM 172**

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**IRIDIUM 173**

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**IRIDIUM 174**

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**IRIDIUM 175**

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei



- \*BT1 iridium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IRIDIUM 176**

- \*BT1 alpha decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iridium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IRIDIUM 177**

- \*BT1 alpha decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iridium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IRIDIUM 178**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iridium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IRIDIUM 179**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iridium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**IRIDIUM 180**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iridium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**IRIDIUM 181**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**IRIDIUM 182**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**IRIDIUM 183**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**IRIDIUM 184**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 iridium isotopes
- \*BT1 odd-odd nuclei

**IRIDIUM 185**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 iridium isotopes
- \*BT1 odd-even nuclei

**IRIDIUM 186**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 iridium isotopes
- \*BT1 odd-odd nuclei

**IRIDIUM 187**

- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 iridium isotopes
- \*BT1 odd-even nuclei

**IRIDIUM 188**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 odd-odd nuclei

**IRIDIUM 189**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 odd-even nuclei

**IRIDIUM 189 TARGET**

*INIS: 1978-01-16; ETDE: 1978-03-03*  
BT1 targets

**IRIDIUM 190**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 iridium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei

**IRIDIUM 190 TARGET**

*INIS: 2000-04-12; ETDE: 1978-11-14*  
BT1 targets

**IRIDIUM 191**

- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iridium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes

**IRIDIUM 191 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**IRIDIUM 192**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iridium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**IRIDIUM 193**

- \*BT1 days living radioisotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iridium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**IRIDIUM 193 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**IRIDIUM 194**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 iridium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**IRIDIUM 194 TARGET**

*INIS: 1987-06-29; ETDE: 1987-07-09*  
BT1 targets

**IRIDIUM 195**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 iridium isotopes
- \*BT1 odd-even nuclei

**IRIDIUM 196**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 iridium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IRIDIUM 197**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**IRIDIUM 198**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IRIDIUM 199**

*2004-12-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**IRIDIUM ADDITIONS**

*Alloys containing not more than 1% Ir are listed here.*

- \*BT1 iridium alloys

**IRIDIUM ALLOYS**

*Alloys containing more than 1% Ir.*

- \*BT1 platinum metal alloys
- NT1 iridium additions
- NT1 iridium base alloys

**IRIDIUM BASE ALLOYS**

- \*BT1 iridium alloys

**IRIDIUM BORIDES**

- \*BT1 borides
- \*BT1 iridium compounds

**IRIDIUM CARBIDES**

*1991-09-16*

- \*BT1 carbides
- \*BT1 iridium compounds

**IRIDIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 iridium compounds

**IRIDIUM COMPLEXES**

\*BT1 transition element complexes

**IRIDIUM COMPOUNDS**

1997-06-17

BT1 refractory metal compounds  
 BT1 transition element compounds  
 NT1 iridium borides  
 NT1 iridium carbides  
 NT1 iridium chlorides  
 NT1 iridium fluorides  
 NT1 iridium hydrides  
 NT1 iridium oxides  
 NT1 iridium silicides  
 NT1 iridium sulfates  
 NT1 iridium tellurides

**IRIDIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 iridium compounds

**IRIDIUM HYDRIDES**

1979-11-02

\*BT1 hydrides  
 \*BT1 iridium compounds

**IRIDIUM IONS**

\*BT1 ions

**IRIDIUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 iridium 164  
 NT1 iridium 165  
 NT1 iridium 166  
 NT1 iridium 167  
 NT1 iridium 168  
 NT1 iridium 169  
 NT1 iridium 170  
 NT1 iridium 171  
 NT1 iridium 172  
 NT1 iridium 173  
 NT1 iridium 174  
 NT1 iridium 175  
 NT1 iridium 176  
 NT1 iridium 177  
 NT1 iridium 178  
 NT1 iridium 179  
 NT1 iridium 180  
 NT1 iridium 181  
 NT1 iridium 182  
 NT1 iridium 183  
 NT1 iridium 184  
 NT1 iridium 185  
 NT1 iridium 186  
 NT1 iridium 187  
 NT1 iridium 188  
 NT1 iridium 189  
 NT1 iridium 190  
 NT1 iridium 191  
 NT1 iridium 192  
 NT1 iridium 193  
 NT1 iridium 194  
 NT1 iridium 195  
 NT1 iridium 196  
 NT1 iridium 197  
 NT1 iridium 198  
 NT1 iridium 199

**IRIDIUM OXIDES**

\*BT1 iridium compounds  
 \*BT1 oxides

**IRIDIUM SILICIDES**

INIS: 1984-04-04; ETDE: 1984-05-09

\*BT1 iridium compounds  
 \*BT1 silicides

**IRIDIUM SULFATES**

INIS: 2000-04-12; ETDE: 1976-08-04

\*BT1 iridium compounds

\*BT1 sulfates

**IRIDIUM TELLURIDES**

INIS: 2000-04-12; ETDE: 1976-06-07

\*BT1 iridium compounds  
 \*BT1 tellurides

**iriginite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE oxide minerals  
 USE uranium minerals

**IRISH SEA**

INIS: 1980-05-14; ETDE: 1977-05-07

UF *celtic sea*  
 \*BT1 atlantic ocean  
 RT united kingdom

**IRL REACTOR**

*Industrial Reactor Laboratories, Inc.,  
 Plainsboro, New Jersey, USA. Shut down in  
 1975.*

UF *plainsboro irl pool type reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**IRON**

1996-07-18

(Prior to March 1997 IRON-BETA was a valid ETDE descriptor.)

UF *iron-beta*  
 \*BT1 transition elements  
 NT1 iron-alpha  
 NT1 iron-delta  
 NT1 iron-gamma  
 RT ferritin  
 RT heme  
 RT hemoglobin  
 RT hemosiderin  
 RT steam-iron process

**IRON 45**

INIS: 1997-02-07; ETDE: 1978-07-05

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 proton decay radioisotopes

**IRON 46**

1993-01-13

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 milliseconds living radioisotopes

**IRON 47**

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes

**IRON 48**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes

**IRON 49**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 milliseconds living radioisotopes

**IRON 50**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei

\*BT1 iron isotopes

**IRON 51**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 milliseconds living radioisotopes

**IRON 52**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 seconds living radioisotopes

**IRON 53**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes

**IRON 54**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 stable isotopes

**IRON 54 REACTIONS**

INIS: 1984-08-23; ETDE: 1984-09-05

\*BT1 heavy ion reactions

**IRON 54 TARGET**

ETDE: 1976-07-09

BT1 targets

**IRON 55**

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 years living radioisotopes

**IRON 55 TARGET**

ETDE: 1976-07-09

BT1 targets

**IRON 56**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 stable isotopes  
 RT iron 56 reactions

**IRON 56 BEAMS**

\*BT1 ion beams

**IRON 56 REACTIONS**

\*BT1 heavy ion reactions  
 RT iron 56

**IRON 56 TARGET**

ETDE: 1976-07-09

BT1 targets

**IRON 57**

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 stable isotopes

**IRON 57 TARGET**

ETDE: 1976-07-09

BT1 targets

**IRON 58**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes

\*BT1 stable isotopes

### IRON 58 BEAMS

INIS: 1976-08-17; ETDE: 1976-11-01

\*BT1 ion beams

### IRON 58 REACTIONS

INIS: 1976-08-17; ETDE: 1976-11-01

\*BT1 heavy ion reactions

### IRON 58 TARGET

ETDE: 1976-07-09

BT1 targets

### IRON 59

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes

### IRON 60

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes  
\*BT1 years living radioisotopes

### IRON 61

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes  
\*BT1 minutes living radioisotopes

### IRON 62

INIS: 1976-02-11; ETDE: 1975-10-01

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes  
\*BT1 minutes living radioisotopes

### IRON 63

1980-11-07

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes  
\*BT1 seconds living radioisotopes

### IRON 64

1980-11-07

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes  
\*BT1 seconds living radioisotopes

### IRON 65

INIS: 1986-08-19; ETDE: 1986-09-05

\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes

### IRON 66

INIS: 1986-08-19; ETDE: 1986-09-05

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes

### IRON 67

INIS: 1986-08-19; ETDE: 1986-09-05

\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes

### IRON 68

INIS: 1986-08-19; ETDE: 1986-09-05

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes

### IRON 69

2007-11-01

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes  
\*BT1 milliseconds living radioisotopes

### IRON 70

2007-11-01

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes  
\*BT1 milliseconds living radioisotopes

### IRON 71

2007-11-01

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes

### IRON 72

2007-11-01

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes

### IRON ADDITIONS

1996-11-13

*Alloys containing not more than 1% Fe are listed here.*

\*BT1 iron alloys  
NT1 alloy-al95cu4  
NT2 duralumin  
NT1 alloy-ni46cr23co19ti5al4  
NT2 alloy-in-939  
NT1 alloy-ni60co15cr10al6ti5mo3  
NT2 alloy-in-100  
NT1 alloy-ni73cr20mn3nb3  
NT2 inconel 82  
NT1 alloy-ni80cr20  
NT1 alloy-ti88mo8al3  
NT1 alloy-ti90al6mo3  
NT1 alloy-ti90al6v4  
NT1 alloy-ti91al4mo3  
NT1 alloy-ti91al5cr2  
NT1 alloy-zr98sn-2  
NT2 zircaloy 2  
NT1 alloy-zr98sn-4  
NT2 zircaloy 4  
NT1 aludur  
NT1 duranickel  
NT1 rene 95  
NT1 zamak

### IRON-AIR BATTERIES

INIS: 2000-04-12; ETDE: 1976-06-07

\*BT1 metal-gas batteries

### IRON ALLOYS

1996-11-13

*Alloys containing more than 1% Fe.*

UF alloy-co52fe35v13  
UF alloy-ehp-496  
UF refractalloy  
UF vikalloy 1  
UF vikalloy 2  
\*BT1 transition element alloys  
NT1 alloy-co36cr22ni22w15fe3  
NT2 haynes 188 alloy  
NT1 alloy-co43cr20fe18ni13w3  
NT2 havar  
NT1 alloy-co52fe35v10  
NT1 alloy-co54cr20w15ni10  
NT2 alloy-hs-25  
NT2 haynes 25 alloy  
NT1 alloy-co60cr30w4  
NT2 stellite 6

NT1 alloy-hs-31  
NT1 alloy-in-102  
NT1 alloy-khn50mbvyu  
NT1 alloy-mo-re-1  
NT1 alloy-ni41fe40cr16nb3  
NT2 inconel 706  
NT1 alloy-ni43fe30cr22mo3  
NT2 incoloy 825  
NT1 alloy-ni43fe33cr16mo3  
NT2 nimonic pe16  
NT1 alloy-ni45fe34cr20  
NT1 alloy-ni49cr22fe18mo9  
NT2 hastelloy x  
NT1 alloy-ni50co20cr15al5mo5  
NT2 nimonic 105  
NT1 alloy-ni50cr22fe18mo9  
NT2 hastelloy xr  
NT1 alloy-ni53cr19fe19nb5mo3  
NT2 inconel 718  
NT1 alloy-ni54mo17cr16fe6w4  
NT2 hastelloy c  
NT1 alloy-ni58cr20co14mo4ti3  
NT2 waspaloy  
NT1 alloy-ni59cr20co17ti2  
NT1 alloy-ni59cr30fe9  
NT2 inconel 690  
NT1 alloy-ni60fe24cr16  
NT2 nichrome  
NT1 alloy-ni61cr22mo9nb4fe3  
NT2 inconel 625  
NT1 alloy-ni61cr23fe14  
NT1 alloy-ni62cr16mo15fe3  
NT2 hastelloy s  
NT1 alloy-ni66cu32  
NT2 monel 400  
NT1 alloy-ni70mo17cr7fe5  
NT2 hastelloy n  
NT2 inor-8  
NT1 alloy-ni73cr15fe7ti3  
NT2 inconel x750  
NT1 alloy-ni76cr15fe8  
NT2 inconel 600  
NT1 alloy-ni77cr20ti2  
NT1 alloy-ni78cr21  
NT1 alloy-ni79fe16mo4  
NT1 alloy-ra-333  
NT1 alloy-s-816  
NT1 alloy-v-36  
NT1 alloy-v87cr9fe3  
NT1 alloy-yundk 25ba  
NT1 austenite  
NT1 colmonoy  
NT1 ferrite  
NT1 incoloy 901  
NT1 iron additions  
NT2 alloy-al95cu4  
NT3 duralumin  
NT2 alloy-ni46cr23co19ti5al4  
NT3 alloy-in-939  
NT2 alloy-ni60co15cr10al6ti5mo3  
NT3 alloy-in-100  
NT2 alloy-ni73cr20mn3nb3  
NT3 inconel 82  
NT2 alloy-ni80cr20  
NT2 alloy-ti88mo8al3  
NT2 alloy-ti90al6mo3  
NT2 alloy-ti90al6v4  
NT2 alloy-ti91al4mo3  
NT2 alloy-ti91al5cr2  
NT2 alloy-zr98sn-2  
NT3 zircaloy 2  
NT2 alloy-zr98sn-4  
NT3 zircaloy 4  
NT2 aludur  
NT2 duranickel  
NT2 rene 95  
NT2 zamak  
NT1 iron base alloys  
NT2 alloy-co50fe50



NT7 stainless steel-316l  
 NT7 stainless steel-zcnd17-13  
 NT6 steel-cr18ni10-l  
 NT6 steel-cr19ni10-l  
 NT7 stainless steel-304l  
 NT6 steel-cr20ni11-l  
 NT7 stainless steel-308l  
 NT6 steel-ni36cr12ti3al-l  
 NT5 stainless steel-317  
 NT5 stainless steel-318  
 NT5 stainless steel-422  
 NT5 stainless steel-fv-548  
 NT5 stainless steel-jbk-75  
 NT5 stainless steel m-50  
 NT5 steel-cr21mn9ni6  
 NT6 stainless steel-21-6-9  
 NT5 sweetalloy  
 NT3 low alloy steels  
 NT4 steel-astm-a350  
 NT4 steel-astm-a387  
 NT4 steel-astm-a508  
 NT4 steel-astm-a533  
 NT4 steel-cr2mo  
 NT5 steel-astm-a542  
 NT4 steel-cr2moninb  
 NT4 steel-cr2mov  
 NT4 steel-cr2nimov  
 NT4 steel-cr5mo  
 NT4 steel-cralnimo  
 NT4 steel-crmo  
 NT4 steel-crmov  
 NT4 steel-crni  
 NT4 steel-mncumo  
 NT5 steel-astm-a537  
 NT4 steel-mnmo  
 NT5 steel-astm-a302  
 NT4 steel-mnnimo  
 NT5 steel-astm-a533-b  
 NT4 steel-mnnimov  
 NT4 steel-ni3cr  
 NT4 steel-ni3crmo  
 NT5 steel-astm-a543  
 NT4 steel-ni3crmov  
 NT4 steel-ni4crw  
 NT4 steel-nicr  
 NT4 steel-nicrmo  
 NT4 steel-nimocr  
 NT3 manganese steels  
 NT3 martensitic steels  
 NT4 maraging steels  
 NT4 steel-cr10mo2  
 NT4 steel-cr12  
 NT5 stainless steel-403  
 NT4 steel-cr12mov  
 NT5 alloy-ht-9  
 NT4 steel-cr13  
 NT5 stainless steel-410  
 NT4 steel-cr16ni  
 NT4 steel-cr17cu4ni4nb-l  
 NT5 stainless steel-17-4ph  
 NT4 steel-cr17mo  
 NT5 stainless steel-440  
 NT4 steel-cr18  
 NT3 nickel steels  
 NT4 sweetalloy  
 NT3 steel-astm-a572  
 NT1 konel  
 NT1 lynite  
 NT1 martensite  
 NT1 misco metal  
 NT1 ni-hard  
 NT1 orthonol  
 NT1 permalloy  
 NT1 rene 41  
 NT1 supertherm  
 NT1 tribaloy 400  
 NT1 tribaloy 800

**IRON-ALPHA**

\*BT1 iron  
 RT ferrite  
 RT martensite

**IRON ARSENIDES**

INIS: 1992-09-17; ETDE: 1978-09-11

\*BT1 arsenides  
 \*BT1 iron compounds

**IRON BASE ALLOYS**

1996-11-13

(Most of the UF terms below have been valid ETDE descriptors.)

UF alloy-fe31cr21co20ni20mo3w2

UF alloy-fe36ni33cr26

UF alloy-fe48cr24ni24

UF alloy-hd-556

UF alloy-in-519

UF alloy-ma-956

UF alloy-n-155

UF hd-556

UF in 519

UF ma 956

UF manaurite 36x

UF manaurite 900

UF rezistal

UF sichromal alloys

UF tikonol

SF alloy-0kh12n13m

\*BT1 iron alloys

NT1 alloy-co50fe50

NT2 permendur

NT1 alloy-fe40ni35cr22

NT1 alloy-fe44ni33cr21

NT2 incoloy 800h

NT1 alloy-fe46ni33cr21

NT2 incoloy 800

NT2 incoloy 802

NT1 alloy-fe53ni29co18

NT2 kovar

NT1 alnico alloys

NT1 ascology

NT1 cast iron

NT1 discaloy

NT1 duriron

NT1 ge 2541

NT1 hiperco

NT1 hoskins 875

NT1 invar

NT1 kanthal

NT1 sicromo 9m

NT1 steel-cd-4mcu

NT1 steels

NT2 austenitic steels

NT3 steel-cr15ni15motib

NT3 steel-cr16ni13monbv

NT3 steel-cr16ni15mo3nb

NT3 steel-cr16ni16monb

NT3 steel-cr16ni8mo2

NT4 stainless steel-16-8-2

NT3 steel-cr17ni12mo3

NT4 stainless steel-316

NT3 steel-cr17ni12mo3-l

NT4 stainless steel-316l

NT4 stainless steel-zcnd17-13

NT3 steel-cr17ni12monb

NT3 steel-cr17ni13

NT3 steel-cr17ni13mo2ti

NT3 steel-cr17ni13mo3ti

NT3 steel-cr17ni7

NT4 stainless steel-301

NT3 steel-cr18ni10

NT4 stainless steel-18-10

NT3 steel-cr18ni10-l

NT3 steel-cr18ni10ti

NT4 stainless steel-321

NT3 steel-cr18ni11

NT4 steel-x6crni1811

NT3 steel-cr18ni11nb

NT4 stainless steel-347

NT3 steel-cr18ni11nbc

NT4 stainless steel-348

NT3 steel-cr18ni12

NT4 stainless steel-305

NT3 steel-cr18ni12ti

NT3 steel-cr18ni8

NT4 stainless steel-18-8

NT3 steel-cr18ni9

NT4 stainless steel-302

NT3 steel-cr18ni9ti

NT3 steel-cr19ni10

NT4 stainless steel-304

NT3 steel-cr19ni10-l

NT4 stainless steel-304l

NT3 steel-cr20ni11

NT4 stainless steel-308

NT3 steel-cr20ni11-l

NT4 stainless steel-308l

NT3 steel-cr21mn9ni6

NT4 stainless steel-21-6-9

NT3 steel-cr23ni14

NT4 stainless steel-309

NT4 stainless steel-309s

NT3 steel-cr23ni18

NT3 steel-cr25ni20

NT4 alloy-hk-40

NT4 stainless steel-310

NT3 steel-ni25cr20

NT4 stainless steel-20-25

NT3 steel-ni26cr15ti2mova1b

NT4 alloy-a-286

NT2 carbon steels

NT3 steel-astm-a105

NT3 steel-astm-a106

NT3 steel-astm-a212

NT3 steel-astm-a285

NT3 steel-astm-a516

NT3 steel-astm-a533-b

NT3 steel-in-787

NT3 steel-sae-1045

NT2 croloy

NT3 steel-cr13

NT4 stainless steel-410

NT3 steel-cr16

NT4 stainless steel-430

NT3 steel-cr18ni10

NT4 stainless steel-18-10

NT3 steel-cr2mo

NT4 steel-astm-a542

NT3 steel-cr5mo

NT2 ferritic steels

NT3 steel-cr12moniv

NT3 steel-cr13al

NT4 stainless steel-405

NT3 steel-cr16

NT4 stainless steel-430

NT3 steel-cr25

NT4 stainless steel-446

NT3 steel-cr9mo

NT3 steel-cr9monbv

NT2 high alloy steels

NT3 stainless steels

NT4 chromium-nickel steels

NT5 alloy-d-9

NT5 carpenter

NT5 chromium-nickel-molybdenum steels

NT6 alloy-m-813

NT6 steel-cr11ni10mo2ti-l

NT6 steel-cr15ni15motib

NT6 steel-cr16ni13monbv

NT6 steel-cr16ni15mo3nb

NT6 steel-cr16ni16monb

NT6 steel-cr16ni8mo2

NT7 stainless steel-16-8-2

NT6 steel-cr16ni9mo2

NT6 steel-cr17ni12mo3

NT7 stainless steel-316  
 NT6 steel-cr17ni12mo3-l  
 NT7 stainless steel-316l  
 NT7 stainless steel-zcnd17-13  
 NT6 steel-cr17ni12monb  
 NT6 steel-cr17ni13mo2ti  
 NT6 steel-cr17ni13mo3ti  
 NT6 steel-ni26cr15ti2moyalb  
 NT7 alloy-a-286  
 NT5 durco  
 NT5 enduro  
 NT5 stainless steel-17-7ph  
 NT5 stainless steel-303  
 NT5 stainless steel-329  
 NT5 stainless steel-ph-15-7-mo  
 NT5 steel-cr17ni13  
 NT5 steel-cr17ni7  
 NT6 stainless steel-301  
 NT5 steel-cr18ni10  
 NT6 stainless steel-18-10  
 NT5 steel-cr18ni10-l  
 NT5 steel-cr18ni10ti  
 NT6 stainless steel-321  
 NT5 steel-cr18ni11  
 NT6 steel-x6crni1811  
 NT5 steel-cr18ni11nb  
 NT6 stainless steel-347  
 NT5 steel-cr18ni11nbc0  
 NT6 stainless steel-348  
 NT5 steel-cr18ni12  
 NT6 stainless steel-305  
 NT5 steel-cr18ni12ti  
 NT5 steel-cr18ni8  
 NT6 stainless steel-18-8  
 NT5 steel-cr18ni9  
 NT6 stainless steel-302  
 NT5 steel-cr18ni9ti  
 NT5 steel-cr19ni10  
 NT6 stainless steel-304  
 NT5 steel-cr19ni10-l  
 NT6 stainless steel-304l  
 NT5 steel-cr20ni11  
 NT6 stainless steel-308  
 NT5 steel-cr20ni11-l  
 NT6 stainless steel-308l  
 NT5 steel-cr23ni14  
 NT6 stainless steel-309  
 NT6 stainless steel-309s  
 NT5 steel-cr23ni18  
 NT5 steel-cr25ni20  
 NT6 alloy-hk-40  
 NT6 stainless steel-310  
 NT5 steel-ni25cr20  
 NT6 stainless steel-20-25  
 NT5 steel-ni36cr12ti3al-l  
 NT5 timken alloys  
 NT4 chromium steels  
 NT5 chromium-molybdenum steels  
 NT6 chromium-nickel-molybdenum steels  
 NT7 alloy-m-813  
 NT7 steel-cr11ni10mo2ti-l  
 NT7 steel-cr15ni15motib  
 NT7 steel-cr16ni13monbv  
 NT7 steel-cr16ni15mo3nb  
 NT7 steel-cr16ni16monb  
 NT7 steel-cr16ni8mo2  
 NT8 stainless steel-16-8-2  
 NT7 steel-cr16ni9mo2  
 NT7 steel-cr17ni12mo3  
 NT8 stainless steel-316  
 NT7 steel-cr17ni12mo3-l  
 NT8 stainless steel-316l  
 NT8 stainless steel-zcnd17-13  
 NT7 steel-cr17ni12monb  
 NT7 steel-cr17ni13mo2ti  
 NT7 steel-cr17ni13mo3ti  
 NT7 steel-ni26cr15ti2moyalb  
 NT8 alloy-a-286

NT5 magnet steel-ks  
 NT5 miduale  
 NT5 stainless steel-406  
 NT5 steel-cr10mo2  
 NT5 steel-cr12  
 NT6 stainless steel-403  
 NT5 steel-cr12moniv  
 NT5 steel-cr12mov  
 NT6 alloy-ht-9  
 NT5 steel-cr13  
 NT6 stainless steel-410  
 NT5 steel-cr13al  
 NT6 stainless steel-405  
 NT5 steel-cr16  
 NT6 stainless steel-430  
 NT5 steel-cr16ni  
 NT5 steel-cr17cu4ni4nb-l  
 NT6 stainless steel-17-4ph  
 NT5 steel-cr17mo  
 NT6 stainless steel-440  
 NT5 steel-cr17ni4mo3  
 NT5 steel-cr18  
 NT5 steel-cr25  
 NT6 stainless steel-446  
 NT5 steel-cr9mo  
 NT5 steel-cr9monbv  
 NT4 low carbon-high alloy steels  
 NT5 steel-cr11ni10mo2ti-l  
 NT5 steel-cr17cu4ni4nb-l  
 NT6 stainless steel-17-4ph  
 NT5 steel-cr17ni12mo3-l  
 NT6 stainless steel-316l  
 NT6 stainless steel-zcnd17-13  
 NT5 steel-cr18ni10-l  
 NT5 steel-cr19ni10-l  
 NT6 stainless steel-304l  
 NT5 steel-cr20ni11-l  
 NT6 stainless steel-308l  
 NT5 steel-ni36cr12ti3al-l  
 NT4 stainless steel-317  
 NT4 stainless steel-318  
 NT4 stainless steel-422  
 NT4 stainless steel-fv-548  
 NT4 stainless steel-jbk-75  
 NT4 stainless steel m-50  
 NT4 steel-cr21mn9ni6  
 NT5 stainless steel-21-6-9  
 NT4 sweetalloy  
 NT2 low alloy steels  
 NT3 steel-astm-a350  
 NT3 steel-astm-a387  
 NT3 steel-astm-a508  
 NT3 steel-astm-a533  
 NT3 steel-cr2mo  
 NT4 steel-astm-a542  
 NT3 steel-cr2moninb  
 NT3 steel-cr2mov  
 NT3 steel-cr2nimov  
 NT3 steel-cr5mo  
 NT3 steel-cralnimo  
 NT3 steel-crmov  
 NT3 steel-crmi  
 NT3 steel-mncumo  
 NT4 steel-astm-a537  
 NT3 steel-mnmo  
 NT4 steel-astm-a302  
 NT3 steel-mnnimo  
 NT4 steel-astm-a533-b  
 NT3 steel-mnnimov  
 NT3 steel-ni3cr  
 NT3 steel-ni3crm0  
 NT4 steel-astm-a543  
 NT3 steel-ni3crm0v  
 NT3 steel-ni4crw  
 NT3 steel-nicr  
 NT3 steel-nicrmo  
 NT3 steel-nimocr  
 NT2 manganese steels

NT2 martensitic steels  
 NT3 maraging steels  
 NT3 steel-cr10mo2  
 NT3 steel-cr12  
 NT4 stainless steel-403  
 NT3 steel-cr12mov  
 NT4 alloy-ht-9  
 NT3 steel-cr13  
 NT4 stainless steel-410  
 NT3 steel-cr16ni  
 NT3 steel-cr17cu4ni4nb-l  
 NT4 stainless steel-17-4ph  
 NT3 steel-cr17mo  
 NT4 stainless steel-440  
 NT3 steel-cr18  
 NT2 nickel steels  
 NT3 sweetalloy  
 NT2 steel-astm-a572

**iron-beta**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE iron

**IRON BORIDES**

\*BT1 borides  
 \*BT1 iron compounds

**IRON BROMIDES**

\*BT1 bromides  
 \*BT1 iron compounds

**IRON CARBIDES**

\*BT1 carbides  
 \*BT1 iron compounds  
 NT1 cementite  
 NT1 ni-hard  
 RT cast iron

**IRON CARBONATES**

\*BT1 carbonates  
 \*BT1 iron compounds  
 RT ankerite  
 RT carbonate minerals  
 RT siderite

**IRON CHLORIDES**

\*BT1 chlorides  
 \*BT1 iron compounds

**IRON COMPLEXES**

\*BT1 transition element complexes  
 NT1 ferricyanides  
 NT1 ferritin  
 NT1 ferrocene  
 NT1 ferrocyanides  
 RT ferroin  
 RT lactoferrin  
 RT rubredoxin

**IRON COMPOUNDS**

UF ferric compounds  
 UF ferrous compounds  
 SF gadolinite  
 BT1 transition element compounds  
 NT1 ferrates  
 NT1 ferrites  
 NT1 iron arsenides  
 NT1 iron borides  
 NT1 iron bromides  
 NT1 iron carbides  
 NT2 cementite  
 NT2 ni-hard  
 NT1 iron carbonates  
 NT1 iron chlorides  
 NT1 iron fluorides  
 NT1 iron hydrides  
 NT1 iron hydroxides  
 NT1 iron iodides  
 NT1 iron nitrates  
 NT1 iron nitrides  
 NT1 iron oxides

NT1 iron perchlorates  
 NT1 iron phosphates  
 NT1 iron phosphides  
 NT1 iron selenides  
 NT1 iron silicates  
 NT1 iron silicides  
 NT1 iron sulfates  
 NT1 iron sulfides  
 NT1 iron tellurides  
 NT1 iron tungstates

**IRON-DELTA**

\*BT1 iron

**IRON FLUORIDES**

\*BT1 fluorides  
 \*BT1 iron compounds

**iron-free spectrometers**

USE flat magnetic spectrometers

**IRON-GAMMA**

\*BT1 iron  
 RT austenite

**iron garnets**

INIS: 2000-04-12; ETDE: 1982-09-10

USE ferrite garnets

**IRON HYDRIDES**

\*BT1 hydrides  
 \*BT1 iron compounds

**IRON HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 iron compounds

**IRON IODIDES**

\*BT1 iodides  
 \*BT1 iron compounds

**IRON IONS**

\*BT1 ions

**IRON ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 iron 45  
 NT1 iron 46  
 NT1 iron 47  
 NT1 iron 48  
 NT1 iron 49  
 NT1 iron 50  
 NT1 iron 51  
 NT1 iron 52  
 NT1 iron 53  
 NT1 iron 54  
 NT1 iron 55  
 NT1 iron 56  
 NT1 iron 57  
 NT1 iron 58  
 NT1 iron 59  
 NT1 iron 60  
 NT1 iron 61  
 NT1 iron 62  
 NT1 iron 63  
 NT1 iron 64  
 NT1 iron 65  
 NT1 iron 66  
 NT1 iron 67  
 NT1 iron 68  
 NT1 iron 69  
 NT1 iron 70  
 NT1 iron 71  
 NT1 iron 72

**IRON METEORITES**

BT1 meteorites  
 RT troilite

**IRON-NICKEL BATTERIES**

2000-04-12

UF nickel-iron batteries

\*BT1 metal-metal oxide batteries

**IRON NITRATES**

\*BT1 iron compounds  
 \*BT1 nitrates

**IRON NITRIDES**

\*BT1 iron compounds  
 \*BT1 nitrides

**IRON ORES**

BT1 ores  
 NT1 hematite  
 NT1 limonite  
 NT1 magnetite  
 NT1 siderite  
 RT pyrite

**IRON OXIDES**

\*BT1 iron compounds  
 \*BT1 oxides  
 RT ferrates  
 RT ferrites  
 RT goethite  
 RT hematite  
 RT ilmenite  
 RT kahlerite  
 RT limonite  
 RT magnetite  
 RT oxide minerals  
 RT shales  
 RT tantalite  
 RT tapiolite  
 RT wolframite

**IRON PERCHLORATES**

INIS: 1983-10-14; ETDE: 1983-11-09

\*BT1 iron compounds  
 \*BT1 perchlorates

**IRON PHOSPHATES**

\*BT1 iron compounds  
 \*BT1 phosphates

**IRON PHOSPHIDES**

INIS: 1976-11-08; ETDE: 1975-10-01

\*BT1 iron compounds  
 \*BT1 phosphides

**IRON SELENIDES**

INIS: 1976-11-08; ETDE: 1976-12-16

\*BT1 iron compounds  
 \*BT1 selenides

**IRON SILICATES**

1996-11-13

\*BT1 iron compounds  
 \*BT1 silicates  
 RT epidotes  
 RT garnets  
 RT helvite  
 RT ilvaite  
 RT olivine  
 RT silicate minerals  
 RT vermiculite

**IRON SILICIDES**

INIS: 1977-01-26; ETDE: 1976-08-24

\*BT1 iron compounds  
 \*BT1 silicides

**IRON SULFATES**

\*BT1 iron compounds  
 \*BT1 sulfates

**IRON SULFIDES**

\*BT1 iron compounds  
 \*BT1 sulfides  
 RT chalcopyrite  
 RT marcasite  
 RT pyrite  
 RT pyrrhotite  
 RT sulfide minerals

**IRON TELLURIDES**

INIS: 1984-07-23; ETDE: 1978-09-11

\*BT1 iron compounds  
 \*BT1 tellurides

**IRON TUNGSTATES**

INIS: 1977-09-15; ETDE: 1977-06-02

\*BT1 iron compounds  
 \*BT1 tungstates

**IRPA**

International Radiation Protection Association.

UF international radiation protection association

BT1 international organizations

**IRR-1 REACTOR**

Soreq Nuclear Research Centre, Nahal Soreq, Israel.

UF israeli research reactor-1

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**IRR-2 REACTOR**

Dimona, Israel.

UF israeli research reactor-2

\*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors

**irradiance**

INIS: 2006-03-03; ETDE: 2006-02-24

USE radiant flux density

**irradiated fuel elements**

INIS: 1976-07-30; ETDE: 2002-06-13

USE spent fuel elements

**irradiated fuels**

INIS: 1976-07-30; ETDE: 2002-06-13

USE spent fuels

**IRRADIATION**

UF accidental irradiation

UF food irradiation

NT1 acute irradiation

NT1 chronic irradiation

NT1 external irradiation

NT2 extracorporeal irradiation

NT2 partial body irradiation

NT2 whole-body irradiation

NT1 fractionated irradiation

NT1 internal irradiation

NT1 lethal irradiation

NT1 local irradiation

NT1 low dose irradiation

NT1 nonuniform irradiation

NT1 perinatal irradiation

NT1 prenatal irradiation

NT1 pulsed irradiation

NT1 radication

NT1 radiodisinfestation

NT1 radiopreservation

NT2 radurization

NT1 radiosterilization

NT2 radappertization

NT1 self-irradiation

NT1 sublethal irradiation

NT1 supralethal irradiation

RT damaging neutron fluence

RT equivalent fission fluence

RT irradiation devices

RT irradiation procedures

RT neutronic damage functions

RT plant breeding

RT radiation dose distributions

RT radiation doses  
 RT radiation effects  
 RT radiation hazards  
 RT radiation sources  
 RT radiations  
 RT radioimmunology  
 RT radiotherapy

**IRRADIATION CAPSULES**

UF capsules (irradiation)  
 RT experimental channels  
 RT in pile loops  
 RT radiation source implants

**irradiation channels**

USE experimental channels

**IRRADIATION DEVICES**

UF irradiation rigs  
 RT external irradiation  
 RT irradiation  
 RT irradiation plants  
 RT irradiation procedures  
 RT pigmi facilities  
 RT radiation sources

**IRRADIATION PLANTS**

BT1 nuclear facilities  
 NT1 isomed  
 RT external irradiation  
 RT irradiation devices  
 RT irradiation procedures  
 RT radiation sources

**IRRADIATION PROCEDURES**

RT afterloading  
 RT external irradiation  
 RT ifip  
 RT irradiation  
 RT irradiation devices  
 RT irradiation plants  
 RT spatial dose distributions  
 RT temporal dose distributions

**IRRADIATION REACTORS**

For isotope production and irradiation purposes; for producing fissile materials see PRODUCTION REACTORS.

BT1 reactors  
 NT1 chemonuclear reactors  
 NT1 isotope production reactors  
 NT2 afri reactor  
 NT2 ai-1-77 reactor  
 NT2 alrr reactor  
 NT2 apsara reactor  
 NT2 astra reactor  
 NT2 atrp reactor  
 NT2 bepo reactor  
 NT2 ber-2 reactor  
 NT2 bgrr reactor  
 NT2 brr reactor  
 NT2 byu 1-77 reactor  
 NT2 celestin reactor  
 NT2 cesnef reactor  
 NT2 cirus reactor  
 NT2 consort-2 reactor  
 NT2 cp-5 reactor  
 NT2 dhruva reactor  
 NT2 dido reactor  
 NT2 dmtr reactor  
 NT2 dow triga-mk-1 reactor  
 NT2 dr-2 reactor  
 NT2 dr-3 reactor  
 NT2 el-1 reactor  
 NT2 el-2 reactor  
 NT2 el-3 reactor  
 NT2 etr reactor  
 NT2 ewa reactor  
 NT2 fir-1 reactor  
 NT2 fnr reactor  
 NT2 fr-2 reactor

NT2 fir reactor  
 NT2 frg-2 reactor  
 NT2 frj-2 reactor  
 NT2 getr reactor  
 NT2 gtrr reactor  
 NT2 gulf triga-mk-3 reactor  
 NT2 hanaro reactor  
 NT2 hfir reactor  
 NT2 hifar reactor  
 NT2 htr reactor  
 NT2 hwrr reactor  
 NT2 ian-r1 reactor  
 NT2 irt-c reactor  
 NT2 irt-f reactor  
 NT2 irt reactor  
 NT2 irt-sofia reactor  
 NT2 ispra-1 reactor  
 NT2 jeep-2 reactor  
 NT2 jrr-1 reactor  
 NT2 jrr-3 reactor  
 NT2 jrr-3m reactor  
 NT2 kuhfr reactor  
 NT2 lptr reactor  
 NT2 maria reactor  
 NT2 melusine-1 reactor  
 NT2 mnr reactor  
 NT2 mrr reactor  
 NT2 nru reactor  
 NT2 nrx reactor  
 NT2 opal reactor  
 NT2 ostr reactor  
 NT2 pulstar-buffalo reactor  
 NT2 r-1 reactor  
 NT2 r-a reactor  
 NT2 r2-0 reactor  
 NT2 rtp reactor  
 NT2 rts-1 reactor  
 NT2 siloe reactor  
 NT2 slowpoke type reactors  
 NT3 slowpoke-alberta reactor  
 NT3 slowpoke-dalhousie reactor  
 NT3 slowpoke-montreal reactor  
 NT3 slowpoke-ottawa reactor  
 NT3 slowpoke-toronto reactor  
 NT3 slowpoke-wnre reactor  
 NT2 taiwan research reactor  
 NT2 thetis reactor  
 NT2 thor reactor  
 NT2 tr-1 reactor  
 NT2 trico reactor  
 NT2 triga-1-california reactor  
 NT2 triga-1-hanover reactor  
 NT2 triga-1-michigan reactor  
 NT2 triga-2-bandung reactor  
 NT2 triga-2-bangladesh reactor  
 NT2 triga-2-dalat reactor  
 NT2 triga-2-illinois reactor  
 NT2 triga-2-kansas reactor  
 NT2 triga-2-ljubljana reactor  
 NT2 triga-2-mainz reactor  
 NT2 triga-2-musashi reactor  
 NT2 triga-2-pavia reactor  
 NT2 triga-2-pitesti reactor  
 NT2 triga-2 reactor  
 NT2 triga-2-rikkyo reactor  
 NT2 triga-2-rome reactor  
 NT2 triga-2-seoul reactor  
 NT2 triga-2-vienna reactor  
 NT2 triga-3-munich reactor  
 NT2 triga-3-salazar reactor  
 NT2 triga-3-seoul reactor  
 NT2 triga-brazil reactor  
 NT2 triga-texas reactor  
 NT2 triga-veterans reactor  
 NT2 tz1 reactor  
 NT2 ucbr reactor  
 NT2 ufr reactor  
 NT2 uknr reactor  
 NT2 uvar reactor

NT2 uwnr reactor  
 NT2 wtr reactor  
 NT2 wwr-2 reactor  
 NT2 wwr-m-kiev reactor  
 NT2 wwr-m-leningrad reactor  
 NT2 wwr-s-budapest reactor  
 NT2 wwr-s-moscow reactor  
 NT2 wwr-sm rossendorf reactor  
 NT2 x-10 reactor  
 NT1 materials processing reactors  
 NT1 materials testing reactors  
 NT2 atr reactor  
 NT2 br-2 reactor  
 NT2 cp-2 reactor  
 NT2 dido reactor  
 NT2 dmtr reactor  
 NT2 dr-3 reactor  
 NT2 el-3 reactor  
 NT2 ewg-1 reactor  
 NT2 frg-2 reactor  
 NT2 frj-2 reactor  
 NT2 ga siwabessy reactor  
 NT2 gleep reactor  
 NT2 hanaro reactor  
 NT2 hector reactor  
 NT2 hfetr reactor  
 NT2 hfr reactor  
 NT2 hifar reactor  
 NT2 hwctr reactor  
 NT2 hwrr reactor  
 NT2 igr reactor  
 NT2 ivv-2m reactor  
 NT2 jmtr reactor  
 NT2 jrr-3 reactor  
 NT2 jrr-3m reactor  
 NT2 jules horowitz reactor  
 NT2 kstr reactor  
 NT2 lpr reactor  
 NT2 merlin reactor  
 NT2 mtr reactor  
 NT2 nbsr reactor  
 NT2 nrx reactor  
 NT2 osiris reactor  
 NT2 pbr reactor  
 NT2 pluto reactor  
 NT2 r-2 reactor  
 NT2 rv-1 reactor  
 NT2 sm-2 reactor  
 NT2 taiwan research reactor  
 NT2 triga-1-hanford reactor  
 NT2 wr-1 reactor  
 NT2 wwr-m-kiev reactor  
 NT2 wwr-m-leningrad reactor  
 NT2 zephyr reactor  
 NT1 tritium production reactors  
 NT2 celestin reactor

**irradiation rigs**

USE irradiation devices

**IRREDUCIBLE REPRESENTATIONS**

UF representations (irreducible)  
 RT group theory  
 RT nonunitary representations  
 RT symmetry groups

**IRREVERSIBLE PROCESSES**

RT onsager relations  
 RT prigogine theorem  
 RT thermodynamics

**IRRIGATION**

RT agriculture  
 RT cultivation techniques  
 RT drought resistance  
 RT fresh water  
 RT radionuclide migration  
 RT soil conservation  
 RT soils  
 RT surface waters



*RT* water use

**IRT-1 LIBYA REACTOR**

2005-01-24

Tajoura Nuclear Research Center, Tajoura, Libya.

*UF* libyan irt-1 reactor

*UF* wwr-libyan reactor

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 wwr type reactors

**IRT-2000 DJAKARTA REACTOR**

*UF* djakarta irt-2000 reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

**IRT-2000 MOSCOW REACTOR**

*UF* mifi irt-2000 reactor

*UF* moscow irt-2000 reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

**irt-2000 sofia reactor**

*INIS:* 1977-03-01; *ETDE:* 2002-06-13

USE irt-sofia reactor

**irt-5000 baghdad reactor**

*INIS:* 1986-07-09; *ETDE:* 1994-08-10

IRT-Baghdad reactor after upgrading from 2 MW(th) to 5 MW(th).

USE irt-baghdad reactor

**IRT-BAGHDAD REACTOR**

*INIS:* 1985-06-10; *ETDE:* 1994-08-10

(Prior to June 1985 WWR-S-BAGHDAD REACTOR was used.)

*UF* baghdad wwr-s reactor

*UF* irt-5000 baghdad reactor

*UF* wwr-c-baghdad reactor

*UF* wwr-s-baghdad reactor

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 wwr type reactors

**IRT-C REACTOR**

2000-04-12

*UF* soviet research reactor irt-c

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**IRT-F REACTOR**

2000-04-12

*UF* soviet research reactor irt-f

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**IRT-M REACTOR**

2000-04-12

\*BT1 research reactors

**IRT REACTOR**

Moscow, Russian Federation.

*UF* soviet research reactor irt

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**IRT-SOFIA REACTOR**

Institute for Nuclear Research and Nuclear Power, Sofia, Bulgaria.

*UF* bulgarian research reactor irt-2000

*UF* irt-2000 sofia reactor

*UF* sofia irt-2000 reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**irvine triga-mk-1 reactor**

*INIS:* 1984-06-21; *ETDE:* 2002-06-13

USE triga-1-california reactor

**irvine triga reactor**

2000-04-12

USE triga-1-california reactor

**isabelle**

USE isabelle storage rings

**ISABELLE STORAGE RINGS**

*UF* brookhaven intersecting storage accelerators

*UF* cba (brookhaven colliding beam accelerator)

*UF* intersecting storage accelerator

*UF* isabelle

BT1 storage rings

*RT* brookhaven rhic

**ISAR-2 REACTOR**

1982-10-28

*UF* kernkraftwerk isar-2

*UF* kki isar-2

\*BT1 pwr type reactors

**ISAR DEVICES**

\*BT1 linear theta pinch devices

**ISAR REACTOR**

*UF* kernkraftwerk isar

*UF* kki isar

\*BT1 bwr type reactors

**ISCHEMIA**

\*BT1 anemias

\*BT1 cardiovascular diseases

\*BT1 vascular diseases

*RT* anoxia

*RT* blood circulation

*RT* blood vessels

*RT* myocardial infarction

*RT* necrosis

**ISENTROPIC PROCESSES**

*Accomplished at constant value of the entropy.*

*UF* processes (isentropic)

*RT* adiabatic processes

*RT* entropy

*RT* isothermal processes

*RT* thermodynamics

**ISING MODEL**

\*BT1 crystal models

*RT* order-disorder transformations

*RT* phi4-field theory

*RT* two-dimensional calculations

**ISIS REACTOR**

CEA/CEN de Saclay, Gif-sur-Yvette, France.

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**islamabad reactor pakistan**

USE parr-1 reactor

**ISLANDS**

1995-11-22

**NT1** aleutian islands

**NT2** amchitka island area

**NT1** american samoa

**NT1** azores islands

**NT1** bahrain

**NT1** bermuda

**NT1** canary islands

**NT1** cape verde islands

**NT1** cyprus

**NT1** faeroe islands

**NT1** fiji

**NT1** greenland

**NT1** hawaii

**NT1** iceland

**NT1** indonesia

**NT1** kurile islands

**NT1** madagascar

**NT2** malagasy republic

**NT1** malta

**NT1** mauritius

**NT1** micronesia

**NT2** kiribati

**NT2** marshall islands

**NT3** bikini

**NT3** eniwetok

**NT2** nauru

**NT2** tuvalu

**NT1** new guinea

**NT2** papua new guinea

**NT1** new hebrides islands

**NT1** new zealand

**NT1** newfoundland

**NT1** novaya zemlya

**NT1** okinawa

**NT1** philippines

**NT1** prince edward island

**NT1** reunion island

**NT1** singapore

**NT1** sri lanka

**NT1** taiwan

**NT1** tasmania

**NT1** trust territory of the pacific islands

**NT2** mariana islands

**NT3** guam

**NT1** west indies

**NT2** bahama islands

**NT2** greater antilles

**NT3** cuba

**NT3** hispaniola

**NT4** dominican republic

**NT4** haiti

**NT3** jamaica

**NT3** puerto rico

**NT2** lesser antilles

**NT3** antigua and barbuda

**NT3** barbados

**NT3** grenada

**NT3** martinique

**NT3** netherlands antilles

**NT3** saint kitts and nevis

**NT3** trinidad and tobago

**NT3** virgin islands

**NT2** saint lucia

**NT2** saint vincent and the grenadines

*RT* oceania

*RT* seas

*RT* terrestrial ecosystems

**ISO**

*UF* international standard organization

**BT1** international organizations

*RT* international electrotechnical commission

*RT* recommendations

*RT* regulations

*RT* standardized terminology

*RT* standards document

**ISOALLOXAZINES**

2000-04-03

UF flavins

\*BT1 heterocyclic compounds

\*BT1 organic nitrogen compounds

\*BT1 organic oxygen compounds

NT1 diaphorase

RT coenzymes

**isoamyl acetate**

1996-10-23

(Prior to March 1997 ISOPENTYL

ACETATE was used for this concept in

ETDE.)

USE acetic acid esters

**isoamylase**

USE amylase

USE isoenzymes

**ISOBAR MODEL**

UF isobaric model

\*BT1 particle models

**ISOBARIC ANALOGS**

UF analog resonances (isobaric)

UF analog states

BT1 energy levels

RT isobaric nuclei

RT nolen-schiffer anomaly

**isobaric model**

USE isobar model

**ISOBARIC NUCLEI**

Nuclei having identical mass number.

BT1 nuclei

RT isobaric analogs

RT mirror nuclei

**isobaric spin**

USE isospin

**isobars (nucleon)**

USE n\*baryons

**isobutane**

USE 2-methylpropane

**isobutyl alcohol**

USE 2-methylpropanol

**ISOBUTYL RADICALS**

\*BT1 alkyl radicals

**isobutylene**

USE 2-methylpropene

**ISOBUTYRIC ACID**

\*BT1 monocarboxylic acids

**ISOCHRONOUS CYCLOTRONS**

1996-07-18

(APACHE, CHICAGO CYCLOTRON, and CRACOW C-48 CYCLOTRON have been valid ETDE descriptors.)

UF apache

UF chicago cyclotron

UF cracow c-48 cyclotron

UF sector cyclotron

\*BT1 cyclotrons

NT1 aabo cyclotron

NT1 alice cyclotron

NT1 brookhaven cyclotron

NT1 cracow aic-144 cyclotron

NT1 crnl superconducting cyclotron

NT1 cyclone cyclotron

NT1 debrecen cyclotron

NT1 eindhoven cyclotron

NT1 ganil cyclotron

NT1 grenoble cyclotron

NT1 haizy cyclotron

NT1 hirfl cyclotron

NT1 inr cyclotron

NT1 ipcr cyclotron

NT1 iu cyclotron

NT1 jinr cyclotrons

NT2 jinr u-400 cyclotron

NT1 julic cyclotron

NT1 karlsruhe cyclotron

NT1 kazakhstan cyclotron

NT1 kiev cyclotron

NT1 kvi cyclotron

NT1 milan superconducting cyclotron

NT1 msu cyclotrons

NT1 munich compact cyclotron

NT1 munich suse cyclotron

NT1 nac cyclotron

NT1 nirs cyclotron

NT1 nrl cyclotron

NT1 orn1 isochronous cyclotron

NT1 orsay cyclotron

NT1 oslo cyclotron

NT1 princeton cyclotron

NT1 rcnp cyclotron

NT1 sara cyclotron

NT1 sin cyclotron

NT1 texas a and m cyclotron

NT1 texas superconducting cyclotron

NT1 tohoku cyclotron

NT1 tokyo ins cyclotron

NT1 triumf cyclotron

NT1 uclrl cyclotrons

NT2 lbl 88-inch cyclotron

NT1 warsaw cyclotron

RT vicksi accelerator

**ISOCYANATES**

1995-01-11

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

(Until January 1995 this concept was indexed to CYANATES.)

UF isocyanic acid

\*BT1 carbonic acid derivatives

BT1 nitrogen compounds

RT cyanates

RT oxygen compounds

**isocyanic acid**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE isocyanates

**ISOCYANIC ACID ESTERS**

2000-04-12

\*BT1 esters

**ISODOSE CURVES**

RT depth dose distributions

RT nonuniform irradiation

RT phantoms

RT radiation dose distributions

RT radiotherapy

RT spatial dose distributions

**ISOELECTRONIC ATOMS**

BT1 atoms

RT electronic structure

**ISOENZYMES**

UF isoamylase

BT1 organic compounds

RT enzymes

**isolated locations**

INIS: 1994-10-13; ETDE: 1978-06-14

USE remote areas

**ISOLATION CONDENSERS**

1994-08-26

\*BT1 steam condensers

RT heat exchangers

RT reactor cooling systems

**ISOMED**

INIS: 1975-11-07; ETDE: 1975-12-16

Radiation Plant for Sterilization of Medical Products.

\*BT1 irradiation plants

RT medical supplies

RT radiosterilization

RT surgical materials

**ISOMER RATIO**

INIS: 1986-05-23; ETDE: 1985-11-19

Ratio of cross sections for populating excited and ground states of the same nuclide in a nuclear reaction.

BT1 dimensionless numbers

RT isomeric nuclei

**ISOMER SHIFT**

Property shift between the isomeric and the ground states of a nucleus.

RT isomeric nuclei

**ISOMERASES**

Code number 5.

\*BT1 enzymes

RT isomerization

RT isomers

RT racemization

**ISOMERIC NUCLEI**

BT1 nuclei

RT fission isomers

RT isomer ratio

RT isomer shift

RT isomeric transition isotopes

RT isomeric transitions

**ISOMERIC TRANSITION ISOTOPES**

1997-02-07

\*BT1 radioisotopes

NT1 actinium 222

NT1 aluminium 24

NT1 americium 242

NT1 antimony 113

NT1 antimony 117

NT1 antimony 122

NT1 antimony 124

NT1 antimony 126

NT1 antimony 131

NT1 arsenic 75

NT1 astatine 202

NT1 barium 127

NT1 barium 131

NT1 barium 133

NT1 barium 135

NT1 barium 136

NT1 barium 137

NT1 barium 138

NT1 bismuth 184

NT1 bismuth 187

NT1 bismuth 198

NT1 bismuth 201

NT1 bismuth 208

NT1 bismuth 211

NT1 bohrium 266

NT1 bohrium 267

NT1 bohrium 272

NT1 bromine 76

NT1 bromine 77

NT1 bromine 79

NT1 bromine 80

NT1 bromine 82

NT1 bromine 83

NT1 cadmium 100

NT1 cadmium 111

NTI cadmium 113	NTI indium 119	NTI plutonium 237
NTI cerium 135	NTI indium 121	NTI polonium 201
NTI cerium 137	NTI iodine 116	NTI polonium 203
NTI cerium 138	NTI iodine 121	NTI polonium 207
NTI cerium 139	NTI iodine 122	NTI polonium 210
NTI cesium 121	NTI iodine 130	NTI potassium 40
NTI cesium 123	NTI iodine 132	NTI praseodymium 142
NTI cesium 134	NTI iodine 133	NTI praseodymium 144
NTI cesium 135	NTI iodine 134	NTI promethium 148
NTI cesium 136	NTI iridium 190	NTI protactinium 234
NTI cesium 138	NTI iridium 191	NTI radium 213
NTI chlorine 34	NTI iridium 192	NTI radon 197
NTI chlorine 38	NTI iridium 193	NTI radon 210
NTI cobalt 58	NTI iridium 194	NTI radon 211
NTI cobalt 60	NTI iron 53	NTI rhenium 167
NTI copper 68	NTI krypton 79	NTI rhenium 169
NTI darmstadtium 271	NTI krypton 81	NTI rhenium 184
NTI dubnium 267	NTI krypton 83	NTI rhenium 186
NTI dysprosium 140	NTI krypton 84	NTI rhenium 188
NTI dysprosium 147	NTI krypton 85	NTI rhenium 190
NTI dysprosium 149	NTI krypton 86	NTI rhenium 194
NTI dysprosium 165	NTI lanthanum 132	NTI rhodium 100
NTI erbium 151	NTI lead 194	NTI rhodium 101
NTI erbium 167	NTI lead 197	NTI rhodium 103
NTI europium 141	NTI lead 199	NTI rhodium 104
NTI europium 152	NTI lead 200	NTI rhodium 105
NTI europium 154	NTI lead 201	NTI rhodium 95
NTI fermium 250	NTI lead 202	NTI rhodium 96
NTI fermium 256	NTI lead 203	NTI rhodium 97
NTI fluorine 18	NTI lead 204	NTI rubidium 76
NTI francium 206	NTI lead 205	NTI rubidium 78
NTI francium 211	NTI lead 207	NTI rubidium 81
NTI francium 212	NTI lutetium 153	NTI rubidium 84
NTI francium 213	NTI lutetium 154	NTI rubidium 85
NTI francium 218	NTI lutetium 161	NTI rubidium 86
NTI gadolinium 141	NTI lutetium 169	NTI rubidium 90
NTI gadolinium 145	NTI lutetium 170	NTI ruthenium 93
NTI gadolinium 147	NTI lutetium 171	NTI samarium 139
NTI gadolinium 148	NTI lutetium 172	NTI samarium 141
NTI gallium 72	NTI lutetium 174	NTI samarium 143
NTI gallium 74	NTI lutetium 177	NTI scandium 44
NTI germanium 71	NTI manganese 60	NTI scandium 46
NTI germanium 73	NTI mercury 193	NTI scandium 50
NTI germanium 75	NTI mercury 195	NTI selenium 73
NTI germanium 77	NTI mercury 197	NTI selenium 77
NTI gold 191	NTI mercury 199	NTI selenium 79
NTI gold 193	NTI mercury 201	NTI selenium 81
NTI gold 195	NTI molybdenum 89	NTI silver 101
NTI gold 196	NTI molybdenum 91	NTI silver 102
NTI gold 197	NTI molybdenum 92	NTI silver 103
NTI gold 198	NTI molybdenum 93	NTI silver 105
NTI gold 200	NTI molybdenum 94	NTI silver 107
NTI hafnium 156	NTI neodymium 137	NTI silver 108
NTI hafnium 177	NTI neodymium 139	NTI silver 109
NTI hafnium 178	NTI neodymium 141	NTI silver 110
NTI hafnium 179	NTI neptunium 237	NTI silver 111
NTI hafnium 180	NTI niobium 86	NTI silver 113
NTI hafnium 182	NTI niobium 90	NTI silver 116
NTI holmium 148	NTI niobium 91	NTI silver 118
NTI holmium 156	NTI niobium 93	NTI silver 120
NTI holmium 158	NTI niobium 94	NTI silver 99
NTI holmium 159	NTI niobium 95	NTI sodium 22
NTI holmium 160	NTI niobium 97	NTI sodium 24
NTI holmium 161	NTI nobelium 254	NTI strontium 83
NTI holmium 162	NTI osmium 182	NTI strontium 85
NTI holmium 163	NTI osmium 183	NTI strontium 87
NTI holmium 164	NTI osmium 189	NTI tantalum 182
NTI holmium 168	NTI osmium 190	NTI technetium 102
NTI indium 104	NTI osmium 191	NTI technetium 86
NTI indium 107	NTI osmium 192	NTI technetium 93
NTI indium 109	NTI palladium 107	NTI technetium 95
NTI indium 111	NTI palladium 109	NTI technetium 96
NTI indium 112	NTI palladium 111	NTI technetium 97
NTI indium 113	NTI palladium 117	NTI technetium 99
NTI indium 114	NTI platinum 184	NTI tellurium 121
NTI indium 115	NTI platinum 193	NTI tellurium 123
NTI indium 116	NTI platinum 195	NTI tellurium 125
NTI indium 117	NTI platinum 197	NTI tellurium 127
NTI indium 118	NTI platinum 199	NTI tellurium 129

NT1 tellurium 131  
 NT1 tellurium 133  
 NT1 terbium 142  
 NT1 terbium 144  
 NT1 terbium 146  
 NT1 terbium 151  
 NT1 terbium 152  
 NT1 terbium 154  
 NT1 terbium 156  
 NT1 terbium 158  
 NT1 thallium 179  
 NT1 thallium 185  
 NT1 thallium 186  
 NT1 thallium 187  
 NT1 thallium 193  
 NT1 thallium 195  
 NT1 thallium 196  
 NT1 thallium 197  
 NT1 thallium 198  
 NT1 thallium 201  
 NT1 thallium 206  
 NT1 thallium 207  
 NT1 thulium 150  
 NT1 thulium 162  
 NT1 thulium 164  
 NT1 tin 102  
 NT1 tin 113  
 NT1 tin 117  
 NT1 tin 119  
 NT1 tin 121  
 NT1 tin 129  
 NT1 tin 131  
 NT1 tungsten 179  
 NT1 tungsten 180  
 NT1 tungsten 183  
 NT1 tungsten 185  
 NT1 uranium 235  
 NT1 xenon 125  
 NT1 xenon 127  
 NT1 xenon 129  
 NT1 xenon 131  
 NT1 xenon 133  
 NT1 xenon 135  
 NT1 ytterbium 153  
 NT1 ytterbium 169  
 NT1 ytterbium 175  
 NT1 ytterbium 176  
 NT1 ytterbium 177  
 NT1 yttrium 86  
 NT1 yttrium 87  
 NT1 yttrium 88  
 NT1 yttrium 89  
 NT1 yttrium 90  
 NT1 yttrium 91  
 NT1 yttrium 93  
 NT1 yttrium 97  
 NT1 zinc 69  
 NT1 zirconium 85  
 NT1 zirconium 87  
 NT1 zirconium 89  
 NT1 zirconium 90  
 RT isomeric nuclei  
 RT isomeric transitions

**ISOMERIC TRANSITIONS**

BT1 energy-level transitions  
 RT decay  
 RT isomeric nuclei  
 RT isomeric transition isotopes

**ISOMERIZATION**

INIS: 1976-07-06; ETDE: 1976-09-14  
 Process for converting hydrocarbon or other organic compound to an isomer.  
 UF tautomerism  
 BT1 chemical reactions  
 RT isomerases

**ISOMERS**

Only for geometrical isomers and stereoisomers in chemistry; see also ISOMERIC NUCLEI.

NT1 enantiomorphs  
 RT isomerases  
 RT stereochemistry

**ISONIAZID**

1996-07-18  
 UF iproniazid  
 \*BT1 antimicrobial agents  
 \*BT1 hydrazides  
 RT pyridines

**ISONITRILES**

\*BT1 carbonic acid derivatives  
 RT nitriles

**isopentane**

INIS: 1983-09-06; ETDE: 1979-09-26  
 USE 2-methylbutane

**isopentyl acetate**

1996-10-23  
 (Until October 1996 this was a valid descriptor.)  
 USE acetic acid esters

**ISOPRENE**

UF 2-methylbutadiene  
 \*BT1 dienes  
 RT polyisoprene

**isopropyl cresol**

USE thymol

**ISOPROPYL ETHER**

UF di-(2-propyl) ether  
 UF diisopropyl ether  
 \*BT1 ethers  
 RT organic solvents

**ISOPROPYL RADICALS**

\*BT1 alkyl radicals

**isopropylbenzene**

USE cumene

**isopropyltoluene-para**

USE cymene

**ISOSPIN**

1996-01-24  
 UF isobaric spin  
 UF isotopic spin  
 BT1 particle properties  
 RT charm particles  
 RT yang-mills theory

**ISOTACHOPHORESIS**

INIS: 1993-08-03; ETDE: 1983-04-07  
 Migration of ion species of the same sign, all with a common counter-ion, under the influence of an electric field.  
 BT1 electrophoresis

**isotherm**

INIS: 2000-04-12; ETDE: 1976-08-24  
 (Prior to July 1985, this was a valid ETDE descriptor.)  
 USE isotherms

**ISOTHERMAL PROCESSES**

UF processes (isothermal)  
 RT adiabatic processes  
 RT isentropic processes  
 RT thermodynamics

**ISOTHERMS**

INIS: 1983-02-03; ETDE: 1983-03-07  
 Lines connecting points of equal temperature.  
 UF geoisotherms

UF isotherm

NT1 adsorption isotherms  
 RT temperature distribution  
 RT temperature measurement

**ISOTHIOCYANATES**

1995-01-11

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

(Until January 1995 this concept was indexed to THIOCYANATES.)

\*BT1 carbonic acid derivatives  
 BT1 nitrogen compounds  
 \*BT1 organic sulfur compounds  
 RT thiocyanates

**isotones**

USE isotonic nuclei

**ISOTONIC NUCLEI**

Nuclei having identical number of neutrons.

UF isotones  
 BT1 nuclei

**ISOTONIC SOLUTIONS**

INIS: 1981-02-27; ETDE: 1981-03-13  
 Solutions having the same osmotic pressure.

\*BT1 solutions  
 RT hypertonic solutions  
 RT osmosis

**isotope analysis (quantitative)**

1995-11-10  
 USE isotope ratio

**ISOTOPE APPLICATIONS**

NT1 tracer techniques  
 NT2 dual-isotope subtraction technique  
 NT2 isotope dilution  
 NT2 labelled pool techniques  
 NT2 radioactive tracer logging  
 NT2 radioimmunoassay  
 NT3 radioimmunoassay  
 NT2 radioimmunosciintigraphy  
 NT2 radioreceptor assay  
 RT labelling  
 RT radiocolloids

**isotope composition**

USE isotope ratio

**isotope composition (quantitative)**

USE isotope ratio

**ISOTOPE DATING**

UF argon method  
 UF helium method  
 UF lead method  
 UF radiocarbon dating  
 BT1 age estimation  
 RT carbon 14

**ISOTOPE DILUTION**

\*BT1 tracer techniques  
 RT dilution  
 RT quantitative chemical analysis  
 RT substoichiometry

**ISOTOPE EFFECTS**

UF isotopic effects  
 RT isotopes  
 RT isotopic exchange

**ISOTOPE ENRICHED MATERIALS**

UF enriched materials (isotopes)  
 BT1 materials  
 NT1 enriched uranium  
 NT2 highly enriched uranium  
 NT2 moderately enriched uranium  
 NT2 slightly enriched uranium

*RT* gas centrifugation  
*RT* isotope separation  
*RT* isotopic exchange

**isotope enrichment**

USE isotope separation

**isotope exchange**

USE isotopic exchange

**ISOTOPE PRODUCTION**

*UF* production (isotope)  
*RT* accelerators  
*RT* isotope production reactors  
*RT* isotopes  
*RT* production  
*RT* radioisotope generators  
*RT* transmutation

**ISOTOPE PRODUCTION REACTORS**

1995-01-10

*For the production of radioisotopes to be used in medicine, agriculture, industry, etc.; for the production of fissile materials, see also PRODUCTION REACTORS, and for the production of tritium, see also TRITIUM PRODUCTION REACTORS.*

\*BT1 irradiation reactors

NT1 afrr reactor  
 NT1 ai-1-77 reactor  
 NT1 alrr reactor  
 NT1 apsara reactor  
 NT1 astra reactor  
 NT1 atpr reactor  
 NT1 bepo reactor  
 NT1 ber-2 reactor  
 NT1 bgrr reactor  
 NT1 brr reactor  
 NT1 byu 1-77 reactor  
 NT1 celestin reactor  
 NT1 cesnef reactor  
 NT1 cirus reactor  
 NT1 consort-2 reactor  
 NT1 cp-5 reactor  
 NT1 dhruva reactor  
 NT1 dido reactor  
 NT1 dmtr reactor  
 NT1 dow triga-mk-1 reactor  
 NT1 dr-2 reactor  
 NT1 dr-3 reactor  
 NT1 el-1 reactor  
 NT1 el-2 reactor  
 NT1 el-3 reactor  
 NT1 etr reactor  
 NT1 ewa reactor  
 NT1 fir-1 reactor  
 NT1 fnr reactor  
 NT1 fr-2 reactor  
 NT1 frf reactor  
 NT1 frg-2 reactor  
 NT1 frj-2 reactor  
 NT1 getr reactor  
 NT1 gtrr reactor  
 NT1 gulf triga-mk-3 reactor  
 NT1 hanaro reactor  
 NT1 hfir reactor  
 NT1 hifar reactor  
 NT1 htr reactor  
 NT1 hwrr reactor  
 NT1 ian-r1 reactor  
 NT1 irt-c reactor  
 NT1 irt-f reactor  
 NT1 irt reactor  
 NT1 irt-sofia reactor  
 NT1 ispra-1 reactor  
 NT1 jeep-2 reactor  
 NT1 jrr-1 reactor  
 NT1 jrr-3 reactor  
 NT1 jrr-3m reactor  
 NT1 kuhfr reactor

NT1 lptr reactor  
 NT1 maria reactor  
 NT1 melusine-1 reactor  
 NT1 mnr reactor  
 NT1 mrr reactor  
 NT1 nru reactor  
 NT1 nrx reactor  
 NT1 opal reactor  
 NT1 ostr reactor  
 NT1 pulstar-buffalo reactor  
 NT1 r-1 reactor  
 NT1 r-a reactor  
 NT1 r2-0 reactor  
 NT1 rtp reactor  
 NT1 rts-1 reactor  
 NT1 siloe reactor  
 NT1 slowpoke type reactors  
 NT2 slowpoke-alberta reactor  
 NT2 slowpoke-dalhousie reactor  
 NT2 slowpoke-montreal reactor  
 NT2 slowpoke-ottawa reactor  
 NT2 slowpoke-toronto reactor  
 NT2 slowpoke-wvre reactor  
 NT1 taiwan research reactor  
 NT1 thetis reactor  
 NT1 thor reactor  
 NT1 tr-1 reactor  
 NT1 trico reactor  
 NT1 triga-1-california reactor  
 NT1 triga-1-hanover reactor  
 NT1 triga-1-michigan reactor  
 NT1 triga-2-bandung reactor  
 NT1 triga-2-bangladesh reactor  
 NT1 triga-2-dalat reactor  
 NT1 triga-2-illinois reactor  
 NT1 triga-2-kansas reactor  
 NT1 triga-2-ljubljana reactor  
 NT1 triga-2-mainz reactor  
 NT1 triga-2-musashi reactor  
 NT1 triga-2-pavia reactor  
 NT1 triga-2-pitesti reactor  
 NT1 triga-2 reactor  
 NT1 triga-2-rikkyo reactor  
 NT1 triga-2-rome reactor  
 NT1 triga-2-seoul reactor  
 NT1 triga-2-vienna reactor  
 NT1 triga-3-munich reactor  
 NT1 triga-3-salazar reactor  
 NT1 triga-3-seoul reactor  
 NT1 triga-brazil reactor  
 NT1 triga-texas reactor  
 NT1 triga-veterans reactor  
 NT1 tz1 reactor  
 NT1 ucbr reactor  
 NT1 ufr reactor  
 NT1 uknr reactor  
 NT1 uvar reactor  
 NT1 uwnr reactor  
 NT1 wtr reactor  
 NT1 wwr-2 reactor  
 NT1 wwr-m-kiev reactor  
 NT1 wwr-m-leningrad reactor  
 NT1 wwr-s-budapest reactor  
 NT1 wwr-s-moscow reactor  
 NT1 wwr-sm rossendorf reactor  
 NT1 x-10 reactor  
 RT isotope production

**ISOTOPE RATIO**

*UF* abundance (isotopic)  
*UF* isotope analysis (quantitative)  
*UF* isotope composition  
*UF* isotope composition (quantitative)  
*UF* isotopic analysis (quantitative)  
*UF* isotopic composition (quantitative)  
 BT1 dimensionless numbers  
 RT abundance  
 RT element abundance  
 RT isotopes

*RT* natural occurrence

**ISOTOPE SEPARATION**

*For separation of isotopes of the same element only.*

*UF* column separation (isotopes)  
*UF* depletion (isotopic)  
*UF* enrichment (isotopic)  
*UF* enrichment (uranium)  
*UF* isotope enrichment  
*UF* isotopic separation  
*UF* uranium enrichment  
 BT1 separation processes  
 NT1 dual temperature process  
 NT1 electromagnetic isotope separation  
 NT1 gas centrifugation  
 NT1 gaseous diffusion process  
 NT1 laser isotope separation  
 NT1 separation nozzle method  
 RT centrifugation  
 RT electromagnetic isotope separators  
 RT enrichment  
 RT gas centrifuges  
 RT heavy water plants  
 RT isotope enriched materials  
 RT isotope separators  
 RT isotopes  
 RT plasma centrifuges  
 RT portsmouth centrifuge enrichment plant  
 RT radioisotope generators  
 RT thermal diffusion  
 RT ultracentrifuges

**ISOTOPE SEPARATION PLANTS**

*INIS: 1976-04-03; ETDE: 1976-05-17*

*UF* uranium enrichment plants  
 BT1 industrial plants  
 BT1 nuclear facilities  
 NT1 centrifuge enrichment plants  
 NT2 portsmouth centrifuge enrichment plant  
 NT1 gaseous diffusion plants  
 NT2 cogema pierrelatte  
 NT2 orgdp  
 NT2 paducah plant  
 NT2 portsmouth gaseous diffusion plant  
 NT1 heavy water plants  
 NT1 tritium extraction plants  
 RT isotope separators

**ISOTOPE SEPARATORS**

1994-04-12

*UF* cern isolde  
 \*BT1 separation equipment  
 RT isotope separation  
 RT isotope separation plants

**isotope shift**

USE spectral shift

**ISOTOPES**

(From October 1976 till February 1997  
 ALKALI METAL ISOTOPES was a valid  
 ETDE descriptor.)

*UF* alkali metal isotopes  
*UF* nuclides  
 NT1 actinium isotopes  
 NT2 actinium 206  
 NT2 actinium 207  
 NT2 actinium 208  
 NT2 actinium 209  
 NT2 actinium 210  
 NT2 actinium 211  
 NT2 actinium 212  
 NT2 actinium 213  
 NT2 actinium 214  
 NT2 actinium 215  
 NT2 actinium 216  
 NT2 actinium 217  
 NT2 actinium 218

NT2	actinium 219	NT3	calcium 39	NT2	strontium isotopes
NT2	actinium 220	NT3	calcium 40	NT3	strontium 100
NT2	actinium 221	NT3	calcium 41	NT3	strontium 101
NT2	actinium 222	NT3	calcium 42	NT3	strontium 102
NT2	actinium 223	NT3	calcium 43	NT3	strontium 103
NT2	actinium 224	NT3	calcium 44	NT3	strontium 104
NT2	actinium 225	NT3	calcium 45	NT3	strontium 105
NT2	actinium 226	NT3	calcium 46	NT3	strontium 73
NT2	actinium 227	NT3	calcium 47	NT3	strontium 74
NT2	actinium 228	NT3	calcium 48	NT3	strontium 75
NT2	actinium 229	NT3	calcium 49	NT3	strontium 76
NT2	actinium 230	NT3	calcium 50	NT3	strontium 77
NT2	actinium 231	NT3	calcium 51	NT3	strontium 78
NT2	actinium 232	NT3	calcium 52	NT3	strontium 79
NT2	actinium 233	NT3	calcium 53	NT3	strontium 80
NT2	actinium 234	NT3	calcium 54	NT3	strontium 81
NT2	actinium 235	NT3	calcium 55	NT3	strontium 82
NT2	actinium 236	NT3	calcium 56	NT3	strontium 83
NT1	alkaline earth isotopes	NT3	calcium 57	NT3	strontium 84
NT2	barium isotopes	NT3	calcium 58	NT3	strontium 85
NT3	barium 114	NT3	calcium 60	NT3	strontium 86
NT3	barium 115	NT2	magnesium isotopes	NT3	strontium 87
NT3	barium 116	NT3	magnesium 19	NT3	strontium 88
NT3	barium 117	NT3	magnesium 20	NT3	strontium 89
NT3	barium 118	NT3	magnesium 21	NT3	strontium 90
NT3	barium 119	NT3	magnesium 22	NT3	strontium 91
NT3	barium 120	NT3	magnesium 23	NT3	strontium 92
NT3	barium 121	NT3	magnesium 24	NT3	strontium 93
NT3	barium 122	NT3	magnesium 25	NT3	strontium 94
NT3	barium 123	NT3	magnesium 26	NT3	strontium 95
NT3	barium 124	NT3	magnesium 27	NT3	strontium 96
NT3	barium 125	NT3	magnesium 28	NT3	strontium 97
NT3	barium 126	NT3	magnesium 29	NT3	strontium 98
NT3	barium 127	NT3	magnesium 30	NT3	strontium 99
NT3	barium 128	NT3	magnesium 31	NT1	aluminium isotopes
NT3	barium 129	NT3	magnesium 32	NT2	aluminium 21
NT3	barium 130	NT3	magnesium 33	NT2	aluminium 22
NT3	barium 131	NT3	magnesium 34	NT2	aluminium 23
NT3	barium 132	NT3	magnesium 35	NT2	aluminium 24
NT3	barium 133	NT3	magnesium 36	NT2	aluminium 25
NT3	barium 134	NT3	magnesium 37	NT2	aluminium 26
NT3	barium 135	NT3	magnesium 38	NT2	aluminium 27
NT3	barium 136	NT3	magnesium 39	NT2	aluminium 28
NT3	barium 137	NT3	magnesium 40	NT2	aluminium 29
NT3	barium 138	NT2	radium isotopes	NT2	aluminium 30
NT3	barium 139	NT3	radium 201	NT2	aluminium 31
NT3	barium 140	NT3	radium 202	NT2	aluminium 32
NT3	barium 141	NT3	radium 203	NT2	aluminium 33
NT3	barium 142	NT3	radium 204	NT2	aluminium 34
NT3	barium 143	NT3	radium 205	NT2	aluminium 35
NT3	barium 144	NT3	radium 206	NT2	aluminium 36
NT3	barium 145	NT3	radium 207	NT2	aluminium 37
NT3	barium 146	NT3	radium 208	NT2	aluminium 38
NT3	barium 147	NT3	radium 209	NT2	aluminium 39
NT3	barium 148	NT3	radium 210	NT2	aluminium 40
NT3	barium 149	NT3	radium 211	NT2	aluminium 41
NT3	barium 150	NT3	radium 212	NT2	aluminium 42
NT3	barium 151	NT3	radium 213	NT1	americium isotopes
NT3	barium 152	NT3	radium 214	NT2	americium 231
NT3	barium 153	NT3	radium 215	NT2	americium 232
NT2	beryllium isotopes	NT3	radium 216	NT2	americium 233
NT3	beryllium 10	NT3	radium 217	NT2	americium 234
NT3	beryllium 11	NT3	radium 218	NT2	americium 235
NT3	beryllium 12	NT3	radium 219	NT2	americium 236
NT3	beryllium 13	NT3	radium 220	NT2	americium 237
NT3	beryllium 14	NT3	radium 221	NT2	americium 238
NT3	beryllium 15	NT3	radium 222	NT2	americium 239
NT3	beryllium 16	NT3	radium 223	NT2	americium 240
NT3	beryllium 5	NT3	radium 224	NT2	americium 241
NT3	beryllium 6	NT3	radium 225	NT2	americium 242
NT3	beryllium 7	NT3	radium 226	NT2	americium 243
NT3	beryllium 8	NT3	radium 227	NT2	americium 244
NT3	beryllium 9	NT3	radium 228	NT2	americium 245
NT2	calcium isotopes	NT3	radium 229	NT2	americium 246
NT3	calcium 34	NT3	radium 230	NT2	americium 247
NT3	calcium 35	NT3	radium 231	NT2	americium 248
NT3	calcium 36	NT3	radium 232	NT2	americium 249
NT3	calcium 37	NT3	radium 233	NT1	antimony isotopes
NT3	calcium 38	NT3	radium 234	NT2	antimony 103

NT2	antimony 104	NT2	arsenic 77	NT2	bismuth 191
NT2	antimony 105	NT2	arsenic 78	NT2	bismuth 192
NT2	antimony 106	NT2	arsenic 79	NT2	bismuth 193
NT2	antimony 107	NT2	arsenic 80	NT2	bismuth 194
NT2	antimony 108	NT2	arsenic 81	NT2	bismuth 195
NT2	antimony 109	NT2	arsenic 82	NT2	bismuth 196
NT2	antimony 110	NT2	arsenic 83	NT2	bismuth 197
NT2	antimony 111	NT2	arsenic 84	NT2	bismuth 198
NT2	antimony 112	NT2	arsenic 85	NT2	bismuth 199
NT2	antimony 113	NT2	arsenic 86	NT2	bismuth 200
NT2	antimony 114	NT2	arsenic 87	NT2	bismuth 201
NT2	antimony 115	NT2	arsenic 88	NT2	bismuth 202
NT2	antimony 116	NT2	arsenic 89	NT2	bismuth 203
NT2	antimony 117	NT2	arsenic 90	NT2	bismuth 204
NT2	antimony 118	NT2	arsenic 91	NT2	bismuth 205
NT2	antimony 119	NT2	arsenic 92	NT2	bismuth 206
NT2	antimony 120	NT1	astatine isotopes	NT2	bismuth 207
NT2	antimony 121	NT2	astatine 191	NT2	bismuth 208
NT2	antimony 122	NT2	astatine 192	NT2	bismuth 209
NT2	antimony 123	NT2	astatine 193	NT2	bismuth 210
NT2	antimony 124	NT2	astatine 194	NT2	bismuth 211
NT2	antimony 125	NT2	astatine 195	NT2	bismuth 212
NT2	antimony 126	NT2	astatine 196	NT2	bismuth 213
NT2	antimony 127	NT2	astatine 197	NT2	bismuth 214
NT2	antimony 128	NT2	astatine 198	NT2	bismuth 215
NT2	antimony 129	NT2	astatine 199	NT2	bismuth 216
NT2	antimony 130	NT2	astatine 200	NT2	bismuth 217
NT2	antimony 131	NT2	astatine 201	NT2	bismuth 218
NT2	antimony 132	NT2	astatine 202	NT1	bohrium isotopes
NT2	antimony 133	NT2	astatine 203	NT2	bohrium 260
NT2	antimony 134	NT2	astatine 204	NT2	bohrium 261
NT2	antimony 135	NT2	astatine 205	NT2	bohrium 262
NT2	antimony 136	NT2	astatine 206	NT2	bohrium 263
NT2	antimony 137	NT2	astatine 207	NT2	bohrium 264
NT2	antimony 138	NT2	astatine 208	NT2	bohrium 265
NT2	antimony 139	NT2	astatine 209	NT2	bohrium 266
NT1	argon isotopes	NT2	astatine 210	NT2	bohrium 267
NT2	argon 30	NT2	astatine 211	NT2	bohrium 271
NT2	argon 31	NT2	astatine 212	NT2	bohrium 272
NT2	argon 32	NT2	astatine 213	NT2	bohrium 273
NT2	argon 33	NT2	astatine 214	NT2	bohrium 274
NT2	argon 34	NT2	astatine 215	NT2	bohrium 275
NT2	argon 35	NT2	astatine 216	NT1	boron isotopes
NT2	argon 36	NT2	astatine 217	NT2	boron 10
NT2	argon 37	NT2	astatine 218	NT2	boron 11
NT2	argon 38	NT2	astatine 219	NT2	boron 12
NT2	argon 39	NT2	astatine 220	NT2	boron 13
NT2	argon 40	NT2	astatine 221	NT2	boron 14
NT2	argon 41	NT2	astatine 222	NT2	boron 15
NT2	argon 42	NT2	astatine 223	NT2	boron 16
NT2	argon 43	NT1	berkelium isotopes	NT2	boron 17
NT2	argon 44	NT2	berkelium 235	NT2	boron 18
NT2	argon 45	NT2	berkelium 236	NT2	boron 19
NT2	argon 46	NT2	berkelium 237	NT2	boron 6
NT2	argon 47	NT2	berkelium 238	NT2	boron 7
NT2	argon 48	NT2	berkelium 239	NT2	boron 8
NT2	argon 49	NT2	berkelium 240	NT2	boron 9
NT2	argon 50	NT2	berkelium 241	NT1	bromine isotopes
NT2	argon 51	NT2	berkelium 242	NT2	bromine 67
NT2	argon 52	NT2	berkelium 243	NT2	bromine 68
NT2	argon 53	NT2	berkelium 244	NT2	bromine 69
NT1	arsenic isotopes	NT2	berkelium 245	NT2	bromine 70
NT2	arsenic 60	NT2	berkelium 246	NT2	bromine 71
NT2	arsenic 61	NT2	berkelium 247	NT2	bromine 72
NT2	arsenic 62	NT2	berkelium 248	NT2	bromine 73
NT2	arsenic 63	NT2	berkelium 249	NT2	bromine 74
NT2	arsenic 64	NT2	berkelium 250	NT2	bromine 75
NT2	arsenic 65	NT2	berkelium 251	NT2	bromine 76
NT2	arsenic 66	NT2	berkelium 252	NT2	bromine 77
NT2	arsenic 67	NT2	berkelium 253	NT2	bromine 78
NT2	arsenic 68	NT2	berkelium 254	NT2	bromine 79
NT2	arsenic 69	NT1	bismuth isotopes	NT2	bromine 80
NT2	arsenic 70	NT2	bismuth 184	NT2	bromine 81
NT2	arsenic 71	NT2	bismuth 185	NT2	bromine 82
NT2	arsenic 72	NT2	bismuth 186	NT2	bromine 83
NT2	arsenic 73	NT2	bismuth 187	NT2	bromine 84
NT2	arsenic 74	NT2	bismuth 188	NT2	bromine 85
NT2	arsenic 75	NT2	bismuth 189	NT2	bromine 86
NT2	arsenic 76	NT2	bismuth 190	NT2	bromine 87

NT2	bromine 88	NT2	carbon 17	NT2	cesium 141
NT2	bromine 89	NT2	carbon 18	NT2	cesium 142
NT2	bromine 90	NT2	carbon 19	NT2	cesium 143
NT2	bromine 91	NT2	carbon 20	NT2	cesium 144
NT2	bromine 92	NT2	carbon 21	NT2	cesium 145
NT2	bromine 93	NT2	carbon 22	NT2	cesium 146
NT2	bromine 94	NT2	carbon 8	NT2	cesium 147
NT2	bromine 95	NT2	carbon 9	NT2	cesium 148
NT2	bromine 96	NT1	carrier-free isotopes	NT2	cesium 149
NT2	bromine 97	NT1	cerium isotopes	NT2	cesium 150
NT1	cadmium isotopes	NT2	cerium 119	NT2	cesium 151
NT2	cadmium 100	NT2	cerium 120	NT1	chlorine isotopes
NT2	cadmium 101	NT2	cerium 121	NT2	chlorine 28
NT2	cadmium 102	NT2	cerium 122	NT2	chlorine 29
NT2	cadmium 103	NT2	cerium 123	NT2	chlorine 30
NT2	cadmium 104	NT2	cerium 124	NT2	chlorine 31
NT2	cadmium 105	NT2	cerium 125	NT2	chlorine 32
NT2	cadmium 106	NT2	cerium 126	NT2	chlorine 33
NT2	cadmium 107	NT2	cerium 127	NT2	chlorine 34
NT2	cadmium 108	NT2	cerium 128	NT2	chlorine 35
NT2	cadmium 109	NT2	cerium 129	NT2	chlorine 36
NT2	cadmium 110	NT2	cerium 130	NT2	chlorine 37
NT2	cadmium 111	NT2	cerium 131	NT2	chlorine 38
NT2	cadmium 112	NT2	cerium 132	NT2	chlorine 39
NT2	cadmium 113	NT2	cerium 133	NT2	chlorine 40
NT2	cadmium 114	NT2	cerium 134	NT2	chlorine 41
NT2	cadmium 115	NT2	cerium 135	NT2	chlorine 42
NT2	cadmium 116	NT2	cerium 136	NT2	chlorine 43
NT2	cadmium 117	NT2	cerium 137	NT2	chlorine 44
NT2	cadmium 118	NT2	cerium 138	NT2	chlorine 45
NT2	cadmium 119	NT2	cerium 139	NT2	chlorine 46
NT2	cadmium 120	NT2	cerium 140	NT2	chlorine 47
NT2	cadmium 121	NT2	cerium 141	NT2	chlorine 48
NT2	cadmium 122	NT2	cerium 142	NT2	chlorine 49
NT2	cadmium 123	NT2	cerium 143	NT2	chlorine 50
NT2	cadmium 124	NT2	cerium 144	NT2	chlorine 51
NT2	cadmium 125	NT2	cerium 145	NT1	chromium isotopes
NT2	cadmium 126	NT2	cerium 146	NT2	chromium 42
NT2	cadmium 127	NT2	cerium 147	NT2	chromium 43
NT2	cadmium 128	NT2	cerium 148	NT2	chromium 44
NT2	cadmium 129	NT2	cerium 149	NT2	chromium 45
NT2	cadmium 130	NT2	cerium 150	NT2	chromium 46
NT2	cadmium 131	NT2	cerium 151	NT2	chromium 47
NT2	cadmium 132	NT2	cerium 152	NT2	chromium 48
NT2	cadmium 95	NT2	cerium 153	NT2	chromium 49
NT2	cadmium 96	NT2	cerium 154	NT2	chromium 50
NT2	cadmium 97	NT2	cerium 155	NT2	chromium 51
NT2	cadmium 98	NT2	cerium 156	NT2	chromium 52
NT2	cadmium 99	NT2	cerium 157	NT2	chromium 53
NT1	californium isotopes	NT1	cesium isotopes	NT2	chromium 54
NT2	californium 236	NT2	cesium 112	NT2	chromium 55
NT2	californium 237	NT2	cesium 113	NT2	chromium 56
NT2	californium 238	NT2	cesium 114	NT2	chromium 57
NT2	californium 239	NT2	cesium 115	NT2	chromium 58
NT2	californium 240	NT2	cesium 116	NT2	chromium 59
NT2	californium 241	NT2	cesium 117	NT2	chromium 60
NT2	californium 242	NT2	cesium 118	NT2	chromium 61
NT2	californium 243	NT2	cesium 119	NT2	chromium 62
NT2	californium 244	NT2	cesium 120	NT2	chromium 63
NT2	californium 245	NT2	cesium 121	NT2	chromium 64
NT2	californium 246	NT2	cesium 122	NT2	chromium 65
NT2	californium 247	NT2	cesium 123	NT2	chromium 66
NT2	californium 248	NT2	cesium 124	NT2	chromium 67
NT2	californium 249	NT2	cesium 125	NT1	cobalt isotopes
NT2	californium 250	NT2	cesium 126	NT2	cobalt 49
NT2	californium 251	NT2	cesium 127	NT2	cobalt 50
NT2	californium 252	NT2	cesium 128	NT2	cobalt 51
NT2	californium 253	NT2	cesium 129	NT2	cobalt 52
NT2	californium 254	NT2	cesium 130	NT2	cobalt 53
NT2	californium 255	NT2	cesium 131	NT2	cobalt 54
NT2	californium 256	NT2	cesium 132	NT2	cobalt 55
NT1	carbon isotopes	NT2	cesium 133	NT2	cobalt 56
NT2	carbon 10	NT2	cesium 134	NT2	cobalt 57
NT2	carbon 11	NT2	cesium 135	NT2	cobalt 58
NT2	carbon 12	NT2	cesium 136	NT2	cobalt 59
NT2	carbon 13	NT2	cesium 137	NT2	cobalt 60
NT2	carbon 14	NT2	cesium 138	NT2	cobalt 61
NT2	carbon 15	NT2	cesium 139	NT2	cobalt 62
NT2	carbon 16	NT2	cesium 140	NT2	cobalt 63



NT2	cobalt 64	NT2	dubnium 259	NT2	element 114 288
NT2	cobalt 65	NT2	dubnium 260	NT2	element 114 289
NT2	cobalt 66	NT2	dubnium 261	NT1	element 115 isotopes
NT2	cobalt 67	NT2	dubnium 262	NT2	element 115 287
NT2	cobalt 68	NT2	dubnium 263	NT2	element 115 288
NT2	cobalt 69	NT2	dubnium 264	NT1	element 117 isotopes
NT2	cobalt 70	NT2	dubnium 265	NT1	element 119 isotopes
NT2	cobalt 71	NT2	dubnium 266	NT1	erbium isotopes
NT2	cobalt 72	NT2	dubnium 267	NT2	erbium 143
NT2	cobalt 73	NT2	dubnium 268	NT2	erbium 144
NT2	cobalt 74	NT2	dubnium 269	NT2	erbium 145
NT2	cobalt 75	NT1	dysprosium isotopes	NT2	erbium 146
NT1	copper isotopes	NT2	dysprosium 138	NT2	erbium 147
NT2	copper 52	NT2	dysprosium 139	NT2	erbium 148
NT2	copper 53	NT2	dysprosium 140	NT2	erbium 149
NT2	copper 54	NT2	dysprosium 141	NT2	erbium 150
NT2	copper 55	NT2	dysprosium 142	NT2	erbium 151
NT2	copper 56	NT2	dysprosium 143	NT2	erbium 152
NT2	copper 57	NT2	dysprosium 144	NT2	erbium 153
NT2	copper 58	NT2	dysprosium 145	NT2	erbium 154
NT2	copper 59	NT2	dysprosium 146	NT2	erbium 155
NT2	copper 60	NT2	dysprosium 147	NT2	erbium 156
NT2	copper 61	NT2	dysprosium 148	NT2	erbium 157
NT2	copper 62	NT2	dysprosium 149	NT2	erbium 158
NT2	copper 63	NT2	dysprosium 150	NT2	erbium 159
NT2	copper 64	NT2	dysprosium 151	NT2	erbium 160
NT2	copper 65	NT2	dysprosium 152	NT2	erbium 161
NT2	copper 66	NT2	dysprosium 153	NT2	erbium 162
NT2	copper 67	NT2	dysprosium 154	NT2	erbium 163
NT2	copper 68	NT2	dysprosium 155	NT2	erbium 164
NT2	copper 69	NT2	dysprosium 156	NT2	erbium 165
NT2	copper 70	NT2	dysprosium 157	NT2	erbium 166
NT2	copper 71	NT2	dysprosium 158	NT2	erbium 167
NT2	copper 72	NT2	dysprosium 159	NT2	erbium 168
NT2	copper 73	NT2	dysprosium 160	NT2	erbium 169
NT2	copper 74	NT2	dysprosium 161	NT2	erbium 170
NT2	copper 75	NT2	dysprosium 162	NT2	erbium 171
NT2	copper 76	NT2	dysprosium 163	NT2	erbium 172
NT2	copper 77	NT2	dysprosium 164	NT2	erbium 173
NT2	copper 78	NT2	dysprosium 165	NT2	erbium 174
NT2	copper 79	NT2	dysprosium 166	NT2	erbium 175
NT2	copper 80	NT2	dysprosium 167	NT2	erbium 176
NT1	curium isotopes	NT2	dysprosium 168	NT2	erbium 177
NT2	curium 232	NT2	dysprosium 169	NT1	europium isotopes
NT2	curium 233	NT2	dysprosium 170	NT2	europium 130
NT2	curium 234	NT2	dysprosium 171	NT2	europium 131
NT2	curium 235	NT2	dysprosium 172	NT2	europium 132
NT2	curium 236	NT2	dysprosium 173	NT2	europium 133
NT2	curium 237	NT1	einsteinium isotopes	NT2	europium 134
NT2	curium 238	NT2	einsteinium 240	NT2	europium 135
NT2	curium 239	NT2	einsteinium 241	NT2	europium 136
NT2	curium 240	NT2	einsteinium 242	NT2	europium 137
NT2	curium 241	NT2	einsteinium 243	NT2	europium 138
NT2	curium 242	NT2	einsteinium 244	NT2	europium 139
NT2	curium 243	NT2	einsteinium 245	NT2	europium 140
NT2	curium 244	NT2	einsteinium 246	NT2	europium 141
NT2	curium 245	NT2	einsteinium 247	NT2	europium 142
NT2	curium 246	NT2	einsteinium 248	NT2	europium 143
NT2	curium 247	NT2	einsteinium 249	NT2	europium 144
NT2	curium 248	NT2	einsteinium 250	NT2	europium 145
NT2	curium 249	NT2	einsteinium 251	NT2	europium 146
NT2	curium 250	NT2	einsteinium 252	NT2	europium 147
NT2	curium 251	NT2	einsteinium 253	NT2	europium 148
NT2	curium 252	NT2	einsteinium 254	NT2	europium 149
NT1	darmstadtium isotopes	NT2	einsteinium 255	NT2	europium 150
NT2	darmstadtium 267	NT2	einsteinium 256	NT2	europium 151
NT2	darmstadtium 269	NT2	einsteinium 257	NT2	europium 152
NT2	darmstadtium 270	NT2	einsteinium 258	NT2	europium 153
NT2	darmstadtium 271	NT1	element 112 isotopes	NT2	europium 154
NT2	darmstadtium 272	NT2	element 112 277	NT2	europium 155
NT2	darmstadtium 273	NT2	element 112 283	NT2	europium 156
NT2	darmstadtium 279	NT1	element 113 isotopes	NT2	europium 157
NT2	darmstadtium 281	NT2	element 113 278	NT2	europium 158
NT1	daughter products	NT2	element 113 283	NT2	europium 159
NT1	dubnium isotopes	NT2	element 113 284	NT2	europium 160
NT2	dubnium 255	NT1	element 114 isotopes	NT2	europium 161
NT2	dubnium 256	NT2	element 114 285	NT2	europium 162
NT2	dubnium 257	NT2	element 114 286	NT2	europium 163
NT2	dubnium 258	NT2	element 114 287	NT2	europium 164

NT2	euporium 165	NT2	gadolinium 134	NT2	germanium 68
NT2	euporium 166	NT2	gadolinium 135	NT2	germanium 69
NT2	euporium 167	NT2	gadolinium 136	NT2	germanium 70
NT1	fermium isotopes	NT2	gadolinium 137	NT2	germanium 71
NT2	fermium 242	NT2	gadolinium 138	NT2	germanium 72
NT2	fermium 243	NT2	gadolinium 139	NT2	germanium 73
NT2	fermium 244	NT2	gadolinium 140	NT2	germanium 74
NT2	fermium 245	NT2	gadolinium 141	NT2	germanium 75
NT2	fermium 246	NT2	gadolinium 142	NT2	germanium 76
NT2	fermium 247	NT2	gadolinium 143	NT2	germanium 77
NT2	fermium 248	NT2	gadolinium 144	NT2	germanium 78
NT2	fermium 249	NT2	gadolinium 145	NT2	germanium 79
NT2	fermium 250	NT2	gadolinium 146	NT2	germanium 80
NT2	fermium 251	NT2	gadolinium 147	NT2	germanium 81
NT2	fermium 252	NT2	gadolinium 148	NT2	germanium 82
NT2	fermium 253	NT2	gadolinium 149	NT2	germanium 83
NT2	fermium 254	NT2	gadolinium 150	NT2	germanium 84
NT2	fermium 255	NT2	gadolinium 151	NT2	germanium 85
NT2	fermium 256	NT2	gadolinium 152	NT2	germanium 86
NT2	fermium 257	NT2	gadolinium 153	NT2	germanium 87
NT2	fermium 258	NT2	gadolinium 154	NT2	germanium 88
NT2	fermium 259	NT2	gadolinium 155	NT2	germanium 89
NT2	fermium 260	NT2	gadolinium 156	NT1	gold isotopes
NT1	fission products	NT2	gadolinium 157	NT2	gold 169
NT1	fluorine isotopes	NT2	gadolinium 158	NT2	gold 170
NT2	fluorine 14	NT2	gadolinium 159	NT2	gold 171
NT2	fluorine 15	NT2	gadolinium 160	NT2	gold 172
NT2	fluorine 16	NT2	gadolinium 161	NT2	gold 173
NT2	fluorine 17	NT2	gadolinium 162	NT2	gold 174
NT2	fluorine 18	NT2	gadolinium 163	NT2	gold 175
NT2	fluorine 19	NT2	gadolinium 164	NT2	gold 176
NT2	fluorine 20	NT2	gadolinium 165	NT2	gold 177
NT2	fluorine 21	NT2	gadolinium 166	NT2	gold 178
NT2	fluorine 22	NT2	gadolinium 167	NT2	gold 179
NT2	fluorine 23	NT2	gadolinium 168	NT2	gold 180
NT2	fluorine 24	NT2	gadolinium 169	NT2	gold 181
NT2	fluorine 25	NT1	gallium isotopes	NT2	gold 182
NT2	fluorine 26	NT2	gallium 56	NT2	gold 183
NT2	fluorine 27	NT2	gallium 57	NT2	gold 184
NT2	fluorine 28	NT2	gallium 58	NT2	gold 185
NT2	fluorine 29	NT2	gallium 59	NT2	gold 186
NT2	fluorine 30	NT2	gallium 60	NT2	gold 187
NT2	fluorine 31	NT2	gallium 61	NT2	gold 188
NT1	francium isotopes	NT2	gallium 62	NT2	gold 189
NT2	francium 199	NT2	gallium 63	NT2	gold 190
NT2	francium 200	NT2	gallium 64	NT2	gold 191
NT2	francium 201	NT2	gallium 65	NT2	gold 192
NT2	francium 202	NT2	gallium 66	NT2	gold 193
NT2	francium 203	NT2	gallium 67	NT2	gold 194
NT2	francium 204	NT2	gallium 68	NT2	gold 195
NT2	francium 205	NT2	gallium 69	NT2	gold 196
NT2	francium 206	NT2	gallium 70	NT2	gold 197
NT2	francium 207	NT2	gallium 71	NT2	gold 198
NT2	francium 208	NT2	gallium 72	NT2	gold 199
NT2	francium 209	NT2	gallium 73	NT2	gold 200
NT2	francium 210	NT2	gallium 74	NT2	gold 201
NT2	francium 211	NT2	gallium 75	NT2	gold 202
NT2	francium 212	NT2	gallium 76	NT2	gold 203
NT2	francium 213	NT2	gallium 77	NT2	gold 204
NT2	francium 214	NT2	gallium 78	NT2	gold 205
NT2	francium 215	NT2	gallium 79	NT1	hafnium isotopes
NT2	francium 216	NT2	gallium 80	NT2	hafnium 153
NT2	francium 217	NT2	gallium 81	NT2	hafnium 154
NT2	francium 218	NT2	gallium 82	NT2	hafnium 155
NT2	francium 219	NT2	gallium 83	NT2	hafnium 156
NT2	francium 220	NT2	gallium 84	NT2	hafnium 157
NT2	francium 221	NT2	gallium 85	NT2	hafnium 158
NT2	francium 222	NT2	gallium 86	NT2	hafnium 159
NT2	francium 223	NT1	germanium isotopes	NT2	hafnium 160
NT2	francium 224	NT2	germanium 58	NT2	hafnium 161
NT2	francium 225	NT2	germanium 59	NT2	hafnium 162
NT2	francium 226	NT2	germanium 60	NT2	hafnium 163
NT2	francium 227	NT2	germanium 61	NT2	hafnium 164
NT2	francium 228	NT2	germanium 62	NT2	hafnium 165
NT2	francium 229	NT2	germanium 63	NT2	hafnium 166
NT2	francium 230	NT2	germanium 64	NT2	hafnium 167
NT2	francium 231	NT2	germanium 65	NT2	hafnium 168
NT2	francium 232	NT2	germanium 66	NT2	hafnium 169
NT1	gadolinium isotopes	NT2	germanium 67	NT2	hafnium 170

NT2	hafnium 171	NT2	holmium 172	NT2	iodine 134
NT2	hafnium 172	NT2	holmium 173	NT2	iodine 135
NT2	hafnium 173	NT2	holmium 174	NT2	iodine 136
NT2	hafnium 174	NT2	holmium 175	NT2	iodine 137
NT2	hafnium 175	NT1	hydrogen isotopes	NT2	iodine 138
NT2	hafnium 176	NT2	deuterium	NT2	iodine 139
NT2	hafnium 177	NT2	hydrogen 1	NT2	iodine 140
NT2	hafnium 178	NT2	hydrogen 4	NT2	iodine 141
NT2	hafnium 179	NT2	hydrogen 5	NT2	iodine 142
NT2	hafnium 180	NT2	hydrogen 6	NT2	iodine 143
NT2	hafnium 181	NT2	hydrogen 7	NT2	iodine 144
NT2	hafnium 182	NT2	tritium	NT1	iridium isotopes
NT2	hafnium 183	NT1	indium isotopes	NT2	iridium 164
NT2	hafnium 184	NT2	indium 100	NT2	iridium 165
NT2	hafnium 185	NT2	indium 101	NT2	iridium 166
NT2	hafnium 186	NT2	indium 102	NT2	iridium 167
NT2	hafnium 187	NT2	indium 103	NT2	iridium 168
NT2	hafnium 188	NT2	indium 104	NT2	iridium 169
NT1	hassium isotopes	NT2	indium 105	NT2	iridium 170
NT2	hassium 263	NT2	indium 106	NT2	iridium 171
NT2	hassium 264	NT2	indium 107	NT2	iridium 172
NT2	hassium 265	NT2	indium 108	NT2	iridium 173
NT2	hassium 266	NT2	indium 109	NT2	iridium 174
NT2	hassium 267	NT2	indium 110	NT2	iridium 175
NT2	hassium 269	NT2	indium 111	NT2	iridium 176
NT2	hassium 270	NT2	indium 112	NT2	iridium 177
NT2	hassium 271	NT2	indium 113	NT2	iridium 178
NT2	hassium 272	NT2	indium 114	NT2	iridium 179
NT2	hassium 274	NT2	indium 115	NT2	iridium 180
NT2	hassium 275	NT2	indium 116	NT2	iridium 181
NT2	hassium 276	NT2	indium 117	NT2	iridium 182
NT1	helium isotopes	NT2	indium 118	NT2	iridium 183
NT2	helium 10	NT2	indium 119	NT2	iridium 184
NT2	helium 2	NT2	indium 120	NT2	iridium 185
NT2	helium 3	NT2	indium 121	NT2	iridium 186
NT3	helium 3 a	NT2	indium 122	NT2	iridium 187
NT3	helium 3 a1	NT2	indium 123	NT2	iridium 188
NT3	helium 3 b	NT2	indium 124	NT2	iridium 189
NT2	helium 4	NT2	indium 125	NT2	iridium 190
NT3	helium i	NT2	indium 126	NT2	iridium 191
NT3	helium ii	NT2	indium 127	NT2	iridium 192
NT2	helium 5	NT2	indium 128	NT2	iridium 193
NT2	helium 6	NT2	indium 129	NT2	iridium 194
NT2	helium 7	NT2	indium 130	NT2	iridium 195
NT2	helium 8	NT2	indium 131	NT2	iridium 196
NT2	helium 9	NT2	indium 132	NT2	iridium 197
NT1	holmium isotopes	NT2	indium 133	NT2	iridium 198
NT2	holmium 140	NT2	indium 134	NT2	iridium 199
NT2	holmium 141	NT2	indium 135	NT1	iron isotopes
NT2	holmium 142	NT2	indium 97	NT2	iron 45
NT2	holmium 143	NT2	indium 98	NT2	iron 46
NT2	holmium 144	NT2	indium 99	NT2	iron 47
NT2	holmium 145	NT1	iodine isotopes	NT2	iron 48
NT2	holmium 146	NT2	iodine 108	NT2	iron 49
NT2	holmium 147	NT2	iodine 109	NT2	iron 50
NT2	holmium 148	NT2	iodine 110	NT2	iron 51
NT2	holmium 149	NT2	iodine 111	NT2	iron 52
NT2	holmium 150	NT2	iodine 112	NT2	iron 53
NT2	holmium 151	NT2	iodine 113	NT2	iron 54
NT2	holmium 152	NT2	iodine 114	NT2	iron 55
NT2	holmium 153	NT2	iodine 115	NT2	iron 56
NT2	holmium 154	NT2	iodine 116	NT2	iron 57
NT2	holmium 155	NT2	iodine 117	NT2	iron 58
NT2	holmium 156	NT2	iodine 118	NT2	iron 59
NT2	holmium 157	NT2	iodine 119	NT2	iron 60
NT2	holmium 158	NT2	iodine 120	NT2	iron 61
NT2	holmium 159	NT2	iodine 121	NT2	iron 62
NT2	holmium 160	NT2	iodine 122	NT2	iron 63
NT2	holmium 161	NT2	iodine 123	NT2	iron 64
NT2	holmium 162	NT2	iodine 124	NT2	iron 65
NT2	holmium 163	NT2	iodine 125	NT2	iron 66
NT2	holmium 164	NT2	iodine 126	NT2	iron 67
NT2	holmium 165	NT2	iodine 127	NT2	iron 68
NT2	holmium 166	NT2	iodine 128	NT2	iron 69
NT2	holmium 167	NT2	iodine 129	NT2	iron 70
NT2	holmium 168	NT2	iodine 130	NT2	iron 71
NT2	holmium 169	NT2	iodine 131	NT2	iron 72
NT2	holmium 170	NT2	iodine 132	NT1	krypton isotopes
NT2	holmium 171	NT2	iodine 133	NT2	krypton 100

NT2	krypton 69	NT2	lawrencium 258	NT2	lutetium 167
NT2	krypton 70	NT2	lawrencium 259	NT2	lutetium 168
NT2	krypton 71	NT2	lawrencium 260	NT2	lutetium 169
NT2	krypton 72	NT2	lawrencium 261	NT2	lutetium 170
NT2	krypton 73	NT2	lawrencium 262	NT2	lutetium 171
NT2	krypton 74	NT2	lawrencium 263	NT2	lutetium 172
NT2	krypton 75	NT2	lawrencium 264	NT2	lutetium 173
NT2	krypton 76	NT2	lawrencium 265	NT2	lutetium 174
NT2	krypton 77	NT2	lawrencium 266	NT2	lutetium 175
NT2	krypton 78	NT1	lead isotopes	NT2	lutetium 176
NT2	krypton 79	NT2	lead 178	NT2	lutetium 177
NT2	krypton 80	NT2	lead 179	NT2	lutetium 178
NT2	krypton 81	NT2	lead 180	NT2	lutetium 179
NT2	krypton 82	NT2	lead 181	NT2	lutetium 180
NT2	krypton 83	NT2	lead 182	NT2	lutetium 181
NT2	krypton 84	NT2	lead 183	NT2	lutetium 182
NT2	krypton 85	NT2	lead 184	NT2	lutetium 183
NT2	krypton 86	NT2	lead 185	NT2	lutetium 184
NT2	krypton 87	NT2	lead 186	NT2	lutetium 187
NT2	krypton 88	NT2	lead 187	NT1	manganese isotopes
NT2	krypton 89	NT2	lead 188	NT2	manganese 44
NT2	krypton 90	NT2	lead 189	NT2	manganese 45
NT2	krypton 91	NT2	lead 190	NT2	manganese 46
NT2	krypton 92	NT2	lead 191	NT2	manganese 47
NT2	krypton 93	NT2	lead 192	NT2	manganese 48
NT2	krypton 94	NT2	lead 193	NT2	manganese 49
NT2	krypton 95	NT2	lead 194	NT2	manganese 50
NT2	krypton 96	NT2	lead 195	NT2	manganese 51
NT2	krypton 97	NT2	lead 196	NT2	manganese 52
NT2	krypton 98	NT2	lead 197	NT2	manganese 53
NT2	krypton 99	NT2	lead 198	NT2	manganese 54
NT1	lanthanum isotopes	NT2	lead 199	NT2	manganese 55
NT2	lanthanum 117	NT2	lead 200	NT2	manganese 56
NT2	lanthanum 118	NT2	lead 201	NT2	manganese 57
NT2	lanthanum 119	NT2	lead 202	NT2	manganese 58
NT2	lanthanum 120	NT2	lead 203	NT2	manganese 59
NT2	lanthanum 121	NT2	lead 204	NT2	manganese 60
NT2	lanthanum 122	NT2	lead 205	NT2	manganese 61
NT2	lanthanum 123	NT2	lead 206	NT2	manganese 62
NT2	lanthanum 124	NT2	lead 207	NT2	manganese 63
NT2	lanthanum 125	NT2	lead 208	NT2	manganese 64
NT2	lanthanum 126	NT2	lead 209	NT2	manganese 65
NT2	lanthanum 127	NT2	lead 210	NT2	manganese 66
NT2	lanthanum 128	NT2	lead 211	NT2	manganese 67
NT2	lanthanum 129	NT2	lead 212	NT2	manganese 68
NT2	lanthanum 130	NT2	lead 213	NT2	manganese 69
NT2	lanthanum 131	NT2	lead 214	NT1	meitnerium isotopes
NT2	lanthanum 132	NT2	lead 215	NT2	meitnerium 265
NT2	lanthanum 133	NT2	lead 216	NT2	meitnerium 266
NT2	lanthanum 134	NT1	lithium isotopes	NT2	meitnerium 267
NT2	lanthanum 135	NT2	lithium 10	NT2	meitnerium 268
NT2	lanthanum 136	NT2	lithium 11	NT2	meitnerium 270
NT2	lanthanum 137	NT2	lithium 12	NT2	meitnerium 271
NT2	lanthanum 138	NT2	lithium 13	NT2	meitnerium 272
NT2	lanthanum 139	NT2	lithium 3	NT2	meitnerium 273
NT2	lanthanum 140	NT2	lithium 4	NT2	meitnerium 274
NT2	lanthanum 141	NT2	lithium 5	NT2	meitnerium 275
NT2	lanthanum 142	NT2	lithium 6	NT2	meitnerium 276
NT2	lanthanum 143	NT2	lithium 7	NT2	meitnerium 279
NT2	lanthanum 144	NT2	lithium 8	NT1	mendelevium isotopes
NT2	lanthanum 145	NT2	lithium 9	NT2	mendelevium 245
NT2	lanthanum 146	NT1	lutetium isotopes	NT2	mendelevium 246
NT2	lanthanum 147	NT2	lutetium 150	NT2	mendelevium 247
NT2	lanthanum 148	NT2	lutetium 151	NT2	mendelevium 248
NT2	lanthanum 149	NT2	lutetium 152	NT2	mendelevium 249
NT2	lanthanum 150	NT2	lutetium 153	NT2	mendelevium 250
NT2	lanthanum 151	NT2	lutetium 154	NT2	mendelevium 251
NT2	lanthanum 152	NT2	lutetium 155	NT2	mendelevium 252
NT2	lanthanum 153	NT2	lutetium 156	NT2	mendelevium 253
NT2	lanthanum 154	NT2	lutetium 157	NT2	mendelevium 254
NT2	lanthanum 155	NT2	lutetium 158	NT2	mendelevium 255
NT1	lawrencium isotopes	NT2	lutetium 159	NT2	mendelevium 256
NT2	lawrencium 251	NT2	lutetium 160	NT2	mendelevium 257
NT2	lawrencium 252	NT2	lutetium 161	NT2	mendelevium 258
NT2	lawrencium 253	NT2	lutetium 162	NT2	mendelevium 259
NT2	lawrencium 254	NT2	lutetium 163	NT2	mendelevium 260
NT2	lawrencium 255	NT2	lutetium 164	NT2	mendelevium 261
NT2	lawrencium 256	NT2	lutetium 165	NT2	mendelevium 262
NT2	lawrencium 257	NT2	lutetium 166	NT1	mercury isotopes

NT2	mercury 171	NT2	neodymium 126	NT2	nickel 49
NT2	mercury 172	NT2	neodymium 127	NT2	nickel 50
NT2	mercury 173	NT2	neodymium 128	NT2	nickel 51
NT2	mercury 174	NT2	neodymium 129	NT2	nickel 52
NT2	mercury 175	NT2	neodymium 130	NT2	nickel 53
NT2	mercury 176	NT2	neodymium 131	NT2	nickel 54
NT2	mercury 177	NT2	neodymium 132	NT2	nickel 55
NT2	mercury 178	NT2	neodymium 133	NT2	nickel 56
NT2	mercury 179	NT2	neodymium 134	NT2	nickel 57
NT2	mercury 180	NT2	neodymium 135	NT2	nickel 58
NT2	mercury 181	NT2	neodymium 136	NT2	nickel 59
NT2	mercury 182	NT2	neodymium 137	NT2	nickel 60
NT2	mercury 183	NT2	neodymium 138	NT2	nickel 61
NT2	mercury 184	NT2	neodymium 139	NT2	nickel 62
NT2	mercury 185	NT2	neodymium 140	NT2	nickel 63
NT2	mercury 186	NT2	neodymium 141	NT2	nickel 64
NT2	mercury 187	NT2	neodymium 142	NT2	nickel 65
NT2	mercury 188	NT2	neodymium 143	NT2	nickel 66
NT2	mercury 189	NT2	neodymium 144	NT2	nickel 67
NT2	mercury 190	NT2	neodymium 145	NT2	nickel 68
NT2	mercury 191	NT2	neodymium 146	NT2	nickel 69
NT2	mercury 192	NT2	neodymium 147	NT2	nickel 70
NT2	mercury 193	NT2	neodymium 148	NT2	nickel 71
NT2	mercury 194	NT2	neodymium 149	NT2	nickel 72
NT2	mercury 195	NT2	neodymium 150	NT2	nickel 73
NT2	mercury 196	NT2	neodymium 151	NT2	nickel 75
NT2	mercury 197	NT2	neodymium 152	NT2	nickel 76
NT2	mercury 198	NT2	neodymium 153	NT2	nickel 77
NT2	mercury 199	NT2	neodymium 154	NT2	nickel 78
NT2	mercury 200	NT2	neodymium 155	NT1	niobium isotopes
NT2	mercury 201	NT2	neodymium 156	NT2	niobium 100
NT2	mercury 202	NT2	neodymium 157	NT2	niobium 101
NT2	mercury 203	NT2	neodymium 158	NT2	niobium 102
NT2	mercury 204	NT2	neodymium 159	NT2	niobium 103
NT2	mercury 205	NT2	neodymium 160	NT2	niobium 104
NT2	mercury 206	NT2	neodymium 161	NT2	niobium 105
NT2	mercury 207	NT1	neon isotopes	NT2	niobium 106
NT2	mercury 208	NT2	neon 16	NT2	niobium 107
NT2	mercury 209	NT2	neon 17	NT2	niobium 108
NT2	mercury 210	NT2	neon 18	NT2	niobium 109
NT2	mercury 211	NT2	neon 19	NT2	niobium 110
NT2	mercury 212	NT2	neon 20	NT2	niobium 111
NT1	molybdenum isotopes	NT2	neon 21	NT2	niobium 112
NT2	molybdenum 100	NT2	neon 22	NT2	niobium 113
NT2	molybdenum 101	NT2	neon 23	NT2	niobium 81
NT2	molybdenum 102	NT2	neon 24	NT2	niobium 82
NT2	molybdenum 103	NT2	neon 25	NT2	niobium 83
NT2	molybdenum 104	NT2	neon 26	NT2	niobium 84
NT2	molybdenum 105	NT2	neon 27	NT2	niobium 85
NT2	molybdenum 106	NT2	neon 28	NT2	niobium 86
NT2	molybdenum 107	NT2	neon 29	NT2	niobium 87
NT2	molybdenum 108	NT2	neon 30	NT2	niobium 88
NT2	molybdenum 109	NT2	neon 31	NT2	niobium 89
NT2	molybdenum 110	NT2	neon 32	NT2	niobium 90
NT2	molybdenum 111	NT2	neon 33	NT2	niobium 91
NT2	molybdenum 112	NT2	neon 34	NT2	niobium 92
NT2	molybdenum 113	NT1	neptunium isotopes	NT2	niobium 93
NT2	molybdenum 114	NT2	neptunium 225	NT2	niobium 94
NT2	molybdenum 115	NT2	neptunium 226	NT2	niobium 95
NT2	molybdenum 83	NT2	neptunium 227	NT2	niobium 96
NT2	molybdenum 84	NT2	neptunium 228	NT2	niobium 97
NT2	molybdenum 85	NT2	neptunium 229	NT2	niobium 98
NT2	molybdenum 86	NT2	neptunium 230	NT2	niobium 99
NT2	molybdenum 87	NT2	neptunium 231	NT1	nitrogen isotopes
NT2	molybdenum 88	NT2	neptunium 232	NT2	nitrogen 10
NT2	molybdenum 89	NT2	neptunium 233	NT2	nitrogen 11
NT2	molybdenum 90	NT2	neptunium 234	NT2	nitrogen 12
NT2	molybdenum 91	NT2	neptunium 235	NT2	nitrogen 13
NT2	molybdenum 92	NT2	neptunium 236	NT2	nitrogen 14
NT2	molybdenum 93	NT2	neptunium 237	NT2	nitrogen 15
NT2	molybdenum 94	NT2	neptunium 238	NT2	nitrogen 16
NT2	molybdenum 95	NT2	neptunium 239	NT2	nitrogen 17
NT2	molybdenum 96	NT2	neptunium 240	NT2	nitrogen 18
NT2	molybdenum 97	NT2	neptunium 241	NT2	nitrogen 19
NT2	molybdenum 98	NT2	neptunium 242	NT2	nitrogen 20
NT2	molybdenum 99	NT2	neptunium 243	NT2	nitrogen 21
NT1	neodymium isotopes	NT2	neptunium 244	NT2	nitrogen 22
NT2	neodymium 124	NT1	nickel isotopes	NT2	nitrogen 23
NT2	neodymium 125	NT2	nickel 48	NT2	nitrogen 24

NT2	nitrogen 25	NT2	palladium 104	NT2	platinum 191
NT1	nobelium isotopes	NT2	palladium 105	NT2	platinum 192
NT2	nobelium 248	NT2	palladium 106	NT2	platinum 193
NT2	nobelium 250	NT2	palladium 107	NT2	platinum 194
NT2	nobelium 251	NT2	palladium 108	NT2	platinum 195
NT2	nobelium 252	NT2	palladium 109	NT2	platinum 196
NT2	nobelium 253	NT2	palladium 110	NT2	platinum 197
NT2	nobelium 254	NT2	palladium 111	NT2	platinum 198
NT2	nobelium 255	NT2	palladium 112	NT2	platinum 199
NT2	nobelium 256	NT2	palladium 113	NT2	platinum 200
NT2	nobelium 257	NT2	palladium 114	NT2	platinum 201
NT2	nobelium 258	NT2	palladium 115	NT2	platinum 202
NT2	nobelium 259	NT2	palladium 116	NT2	platinum 203
NT2	nobelium 260	NT2	palladium 117	NT2	platinum 204
NT2	nobelium 261	NT2	palladium 118	NT2	platinum 205
NT2	nobelium 262	NT2	palladium 119	NT2	platinum 206
NT2	nobelium 263	NT2	palladium 120	NT2	platinum 207
NT2	nobelium 264	NT2	palladium 121	NT2	platinum 208
NT1	osmium isotopes	NT2	palladium 122	NT1	plutonium isotopes
NT2	osmium 162	NT2	palladium 123	NT2	plutonium 228
NT2	osmium 163	NT2	palladium 124	NT2	plutonium 229
NT2	osmium 164	NT2	palladium 91	NT2	plutonium 230
NT2	osmium 165	NT2	palladium 92	NT2	plutonium 231
NT2	osmium 166	NT2	palladium 93	NT2	plutonium 232
NT2	osmium 167	NT2	palladium 94	NT2	plutonium 233
NT2	osmium 168	NT2	palladium 95	NT2	plutonium 234
NT2	osmium 169	NT2	palladium 96	NT2	plutonium 235
NT2	osmium 170	NT2	palladium 97	NT2	plutonium 236
NT2	osmium 171	NT2	palladium 98	NT2	plutonium 237
NT2	osmium 172	NT2	palladium 99	NT2	plutonium 238
NT2	osmium 173	NT1	phosphorus isotopes	NT2	plutonium 239
NT2	osmium 174	NT2	phosphorus 21	NT2	plutonium 240
NT2	osmium 175	NT2	phosphorus 24	NT2	plutonium 241
NT2	osmium 176	NT2	phosphorus 25	NT2	plutonium 242
NT2	osmium 177	NT2	phosphorus 26	NT2	plutonium 243
NT2	osmium 178	NT2	phosphorus 27	NT2	plutonium 244
NT2	osmium 179	NT2	phosphorus 28	NT2	plutonium 245
NT2	osmium 180	NT2	phosphorus 29	NT2	plutonium 246
NT2	osmium 181	NT2	phosphorus 30	NT2	plutonium 247
NT2	osmium 182	NT2	phosphorus 31	NT2	plutonium 248
NT2	osmium 183	NT2	phosphorus 32	NT2	plutonium 250
NT2	osmium 184	NT2	phosphorus 33	NT1	polonium isotopes
NT2	osmium 185	NT2	phosphorus 34	NT2	polonium 186
NT2	osmium 186	NT2	phosphorus 35	NT2	polonium 187
NT2	osmium 187	NT2	phosphorus 36	NT2	polonium 188
NT2	osmium 188	NT2	phosphorus 37	NT2	polonium 189
NT2	osmium 189	NT2	phosphorus 38	NT2	polonium 190
NT2	osmium 190	NT2	phosphorus 39	NT2	polonium 191
NT2	osmium 191	NT2	phosphorus 40	NT2	polonium 192
NT2	osmium 192	NT2	phosphorus 41	NT2	polonium 193
NT2	osmium 193	NT2	phosphorus 42	NT2	polonium 194
NT2	osmium 194	NT2	phosphorus 43	NT2	polonium 195
NT2	osmium 195	NT2	phosphorus 44	NT2	polonium 196
NT2	osmium 196	NT2	phosphorus 45	NT2	polonium 197
NT2	osmium 197	NT2	phosphorus 46	NT2	polonium 198
NT2	osmium 199	NT2	platinum isotopes	NT2	polonium 199
NT1	oxygen isotopes	NT2	platinum 168	NT2	polonium 200
NT2	oxygen 12	NT2	platinum 169	NT2	polonium 201
NT2	oxygen 13	NT2	platinum 170	NT2	polonium 202
NT2	oxygen 14	NT2	platinum 171	NT2	polonium 203
NT2	oxygen 15	NT2	platinum 172	NT2	polonium 204
NT2	oxygen 16	NT2	platinum 173	NT2	polonium 205
NT2	oxygen 17	NT2	platinum 174	NT2	polonium 206
NT2	oxygen 18	NT2	platinum 175	NT2	polonium 207
NT2	oxygen 19	NT2	platinum 176	NT2	polonium 208
NT2	oxygen 20	NT2	platinum 177	NT2	polonium 209
NT2	oxygen 21	NT2	platinum 178	NT2	polonium 210
NT2	oxygen 22	NT2	platinum 179	NT2	polonium 211
NT2	oxygen 23	NT2	platinum 180	NT2	polonium 212
NT2	oxygen 24	NT2	platinum 181	NT2	polonium 213
NT2	oxygen 25	NT2	platinum 182	NT2	polonium 214
NT2	oxygen 26	NT2	platinum 183	NT2	polonium 215
NT2	oxygen 27	NT2	platinum 184	NT2	polonium 216
NT2	oxygen 28	NT2	platinum 185	NT2	polonium 217
NT1	palladium isotopes	NT2	platinum 186	NT2	polonium 218
NT2	palladium 100	NT2	platinum 187	NT2	polonium 219
NT2	palladium 101	NT2	platinum 188	NT2	polonium 220
NT2	palladium 102	NT2	platinum 189	NT1	potassium isotopes
NT2	palladium 103	NT2	platinum 190	NT2	potassium 32

NT2	potassium 33	NT2	promethium 141	NT3	americium 237
NT2	potassium 34	NT2	promethium 142	NT3	americium 238
NT2	potassium 35	NT2	promethium 143	NT3	americium 239
NT2	potassium 36	NT2	promethium 144	NT3	americium 240
NT2	potassium 37	NT2	promethium 145	NT3	americium 241
NT2	potassium 38	NT2	promethium 146	NT3	americium 242
NT2	potassium 39	NT2	promethium 147	NT3	americium 243
NT2	potassium 40	NT2	promethium 148	NT3	astatine 191
NT2	potassium 41	NT2	promethium 149	NT3	astatine 192
NT2	potassium 42	NT2	promethium 150	NT3	astatine 193
NT2	potassium 43	NT2	promethium 151	NT3	astatine 194
NT2	potassium 44	NT2	promethium 152	NT3	astatine 196
NT2	potassium 45	NT2	promethium 153	NT3	astatine 197
NT2	potassium 46	NT2	promethium 154	NT3	astatine 198
NT2	potassium 47	NT2	promethium 155	NT3	astatine 199
NT2	potassium 48	NT2	promethium 156	NT3	astatine 200
NT2	potassium 49	NT2	promethium 157	NT3	astatine 201
NT2	potassium 50	NT2	promethium 158	NT3	astatine 202
NT2	potassium 51	NT2	promethium 159	NT3	astatine 203
NT2	potassium 52	NT2	promethium 160	NT3	astatine 204
NT2	potassium 53	NT2	promethium 161	NT3	astatine 205
NT2	potassium 54	NT2	promethium 162	NT3	astatine 206
NT2	potassium 55	NT2	promethium 163	NT3	astatine 207
NT1	praseodymium isotopes	NT1	protactinium isotopes	NT3	astatine 208
NT2	praseodymium 121	NT2	protactinium 212	NT3	astatine 209
NT2	praseodymium 122	NT2	protactinium 213	NT3	astatine 210
NT2	praseodymium 123	NT2	protactinium 214	NT3	astatine 211
NT2	praseodymium 124	NT2	protactinium 215	NT3	astatine 212
NT2	praseodymium 125	NT2	protactinium 216	NT3	astatine 213
NT2	praseodymium 126	NT2	protactinium 217	NT3	astatine 214
NT2	praseodymium 127	NT2	protactinium 218	NT3	astatine 215
NT2	praseodymium 128	NT2	protactinium 219	NT3	astatine 216
NT2	praseodymium 129	NT2	protactinium 220	NT3	astatine 217
NT2	praseodymium 130	NT2	protactinium 221	NT3	astatine 218
NT2	praseodymium 131	NT2	protactinium 222	NT3	astatine 219
NT2	praseodymium 132	NT2	protactinium 223	NT3	astatine 220
NT2	praseodymium 133	NT2	protactinium 224	NT3	berkelium 235
NT2	praseodymium 134	NT2	protactinium 225	NT3	berkelium 243
NT2	praseodymium 135	NT2	protactinium 226	NT3	berkelium 244
NT2	praseodymium 136	NT2	protactinium 227	NT3	berkelium 245
NT2	praseodymium 137	NT2	protactinium 228	NT3	berkelium 247
NT2	praseodymium 138	NT2	protactinium 229	NT3	berkelium 249
NT2	praseodymium 139	NT2	protactinium 230	NT3	beryllium 8
NT2	praseodymium 140	NT2	protactinium 231	NT3	bismuth 184
NT2	praseodymium 141	NT2	protactinium 232	NT3	bismuth 185
NT2	praseodymium 142	NT2	protactinium 233	NT3	bismuth 186
NT2	praseodymium 143	NT2	protactinium 234	NT3	bismuth 187
NT2	praseodymium 144	NT2	protactinium 235	NT3	bismuth 188
NT2	praseodymium 145	NT2	protactinium 236	NT3	bismuth 189
NT2	praseodymium 146	NT2	protactinium 237	NT3	bismuth 190
NT2	praseodymium 147	NT2	protactinium 238	NT3	bismuth 191
NT2	praseodymium 148	NT2	protactinium 239	NT3	bismuth 192
NT2	praseodymium 149	NT2	protactinium 240	NT3	bismuth 193
NT2	praseodymium 150	NT1	radioisotopes	NT3	bismuth 194
NT2	praseodymium 151	NT2	alpha decay radioisotopes	NT3	bismuth 195
NT2	praseodymium 152	NT3	actinium 206	NT3	bismuth 196
NT2	praseodymium 153	NT3	actinium 207	NT3	bismuth 197
NT2	praseodymium 154	NT3	actinium 208	NT3	bismuth 199
NT2	praseodymium 155	NT3	actinium 209	NT3	bismuth 201
NT2	praseodymium 156	NT3	actinium 210	NT3	bismuth 203
NT2	praseodymium 157	NT3	actinium 211	NT3	bismuth 210
NT2	praseodymium 158	NT3	actinium 212	NT3	bismuth 211
NT2	praseodymium 159	NT3	actinium 213	NT3	bismuth 212
NT1	promethium isotopes	NT3	actinium 214	NT3	bismuth 213
NT2	promethium 126	NT3	actinium 215	NT3	bismuth 214
NT2	promethium 127	NT3	actinium 216	NT3	bohrium 260
NT2	promethium 128	NT3	actinium 217	NT3	bohrium 261
NT2	promethium 129	NT3	actinium 218	NT3	bohrium 262
NT2	promethium 130	NT3	actinium 219	NT3	bohrium 264
NT2	promethium 131	NT3	actinium 220	NT3	bohrium 265
NT2	promethium 132	NT3	actinium 221	NT3	bohrium 266
NT2	promethium 133	NT3	actinium 222	NT3	bohrium 267
NT2	promethium 134	NT3	actinium 223	NT3	bohrium 271
NT2	promethium 135	NT3	actinium 224	NT3	bohrium 272
NT2	promethium 136	NT3	actinium 225	NT3	boron 9
NT2	promethium 137	NT3	actinium 226	NT3	californium 237
NT2	promethium 138	NT3	actinium 227	NT3	californium 239
NT2	promethium 139	NT3	americium 231	NT3	californium 240
NT2	promethium 140	NT3	americium 232	NT3	californium 241

NT3	californium 242	NT3	fermium 243	NT3	holmium 155
NT3	californium 243	NT3	fermium 245	NT3	iodine 108
NT3	californium 244	NT3	fermium 246	NT3	iodine 111
NT3	californium 245	NT3	fermium 247	NT3	iridium 164
NT3	californium 246	NT3	fermium 248	NT3	iridium 165
NT3	californium 247	NT3	fermium 249	NT3	iridium 166
NT3	californium 248	NT3	fermium 250	NT3	iridium 167
NT3	californium 249	NT3	fermium 251	NT3	iridium 168
NT3	californium 250	NT3	fermium 252	NT3	iridium 169
NT3	californium 251	NT3	fermium 253	NT3	iridium 170
NT3	californium 252	NT3	fermium 254	NT3	iridium 171
NT3	californium 253	NT3	fermium 255	NT3	iridium 172
NT3	californium 254	NT3	fermium 256	NT3	iridium 173
NT3	curium 233	NT3	fermium 257	NT3	iridium 174
NT3	curium 234	NT3	francium 199	NT3	iridium 175
NT3	curium 235	NT3	francium 200	NT3	iridium 176
NT3	curium 236	NT3	francium 201	NT3	iridium 177
NT3	curium 237	NT3	francium 202	NT3	lawrencium 251
NT3	curium 238	NT3	francium 203	NT3	lawrencium 252
NT3	curium 240	NT3	francium 204	NT3	lawrencium 253
NT3	curium 241	NT3	francium 205	NT3	lawrencium 254
NT3	curium 242	NT3	francium 206	NT3	lawrencium 255
NT3	curium 243	NT3	francium 207	NT3	lawrencium 256
NT3	curium 244	NT3	francium 208	NT3	lawrencium 257
NT3	curium 245	NT3	francium 209	NT3	lawrencium 258
NT3	curium 246	NT3	francium 210	NT3	lawrencium 259
NT3	curium 247	NT3	francium 211	NT3	lawrencium 260
NT3	curium 248	NT3	francium 212	NT3	lawrencium 264
NT3	curium 250	NT3	francium 213	NT3	lawrencium 265
NT3	darmstadtium 267	NT3	francium 214	NT3	lawrencium 266
NT3	darmstadtium 269	NT3	francium 215	NT3	lead 178
NT3	darmstadtium 270	NT3	francium 216	NT3	lead 180
NT3	darmstadtium 271	NT3	francium 217	NT3	lead 181
NT3	darmstadtium 273	NT3	francium 218	NT3	lead 182
NT3	darmstadtium 279	NT3	francium 219	NT3	lead 183
NT3	dubnium 255	NT3	francium 220	NT3	lead 184
NT3	dubnium 256	NT3	francium 221	NT3	lead 185
NT3	dubnium 257	NT3	francium 222	NT3	lead 186
NT3	dubnium 258	NT3	francium 223	NT3	lead 187
NT3	dubnium 260	NT3	gadolinium 148	NT3	lead 188
NT3	dubnium 261	NT3	gadolinium 149	NT3	lead 189
NT3	dubnium 262	NT3	gadolinium 150	NT3	lead 190
NT3	dubnium 263	NT3	gadolinium 151	NT3	lead 191
NT3	dysprosium 150	NT3	gadolinium 152	NT3	lead 192
NT3	dysprosium 151	NT3	gold 171	NT3	lead 210
NT3	dysprosium 152	NT3	gold 172	NT3	lithium 5
NT3	dysprosium 153	NT3	gold 173	NT3	lutetium 155
NT3	dysprosium 154	NT3	gold 174	NT3	lutetium 156
NT3	einsteinium 241	NT3	gold 175	NT3	lutetium 157
NT3	einsteinium 242	NT3	gold 176	NT3	lutetium 158
NT3	einsteinium 243	NT3	gold 177	NT3	lutetium 159
NT3	einsteinium 244	NT3	gold 178	NT3	meitnerium 266
NT3	einsteinium 245	NT3	gold 179	NT3	meitnerium 268
NT3	einsteinium 246	NT3	gold 181	NT3	meitnerium 270
NT3	einsteinium 247	NT3	gold 183	NT3	meitnerium 275
NT3	einsteinium 248	NT3	gold 184	NT3	meitnerium 276
NT3	einsteinium 249	NT3	gold 185	NT3	mendelevium 245
NT3	einsteinium 251	NT3	hafnium 156	NT3	mendelevium 246
NT3	einsteinium 252	NT3	hafnium 157	NT3	mendelevium 247
NT3	einsteinium 253	NT3	hafnium 158	NT3	mendelevium 248
NT3	einsteinium 254	NT3	hafnium 159	NT3	mendelevium 249
NT3	einsteinium 255	NT3	hafnium 160	NT3	mendelevium 250
NT3	element 112 277	NT3	hafnium 161	NT3	mendelevium 251
NT3	element 113 278	NT3	hafnium 162	NT3	mendelevium 255
NT3	element 113 283	NT3	hafnium 174	NT3	mendelevium 256
NT3	element 113 284	NT3	hassium 263	NT3	mendelevium 257
NT3	element 114 285	NT3	hassium 264	NT3	mendelevium 258
NT3	element 114 286	NT3	hassium 265	NT3	mendelevium 259
NT3	element 114 287	NT3	hassium 266	NT3	mercury 171
NT3	element 114 288	NT3	hassium 267	NT3	mercury 172
NT3	element 114 289	NT3	hassium 269	NT3	mercury 173
NT3	element 115 287	NT3	hassium 270	NT3	mercury 174
NT3	element 115 288	NT3	hassium 271	NT3	mercury 175
NT3	erbium 152	NT3	hassium 275	NT3	mercury 176
NT3	erbium 153	NT3	helium 5	NT3	mercury 177
NT3	erbium 154	NT3	holmium 151	NT3	mercury 178
NT3	erbium 155	NT3	holmium 152	NT3	mercury 179
NT3	europium 147	NT3	holmium 153	NT3	mercury 180
NT3	europium 148	NT3	holmium 154	NT3	mercury 181



NT3 mercury 182	NT3 polonium 189	NT3 radon 197
NT3 mercury 183	NT3 polonium 190	NT3 radon 198
NT3 mercury 184	NT3 polonium 191	NT3 radon 199
NT3 mercury 185	NT3 polonium 192	NT3 radon 200
NT3 mercury 186	NT3 polonium 193	NT3 radon 201
NT3 mercury 187	NT3 polonium 194	NT3 radon 202
NT3 mercury 188	NT3 polonium 195	NT3 radon 203
NT3 neodymium 144	NT3 polonium 196	NT3 radon 204
NT3 neptunium 225	NT3 polonium 197	NT3 radon 205
NT3 neptunium 226	NT3 polonium 198	NT3 radon 206
NT3 neptunium 227	NT3 polonium 199	NT3 radon 207
NT3 neptunium 229	NT3 polonium 200	NT3 radon 208
NT3 neptunium 230	NT3 polonium 201	NT3 radon 209
NT3 neptunium 231	NT3 polonium 202	NT3 radon 210
NT3 neptunium 233	NT3 polonium 203	NT3 radon 211
NT3 neptunium 235	NT3 polonium 204	NT3 radon 212
NT3 neptunium 237	NT3 polonium 205	NT3 radon 213
NT3 nobelium 251	NT3 polonium 206	NT3 radon 214
NT3 nobelium 252	NT3 polonium 207	NT3 radon 215
NT3 nobelium 253	NT3 polonium 208	NT3 radon 216
NT3 nobelium 254	NT3 polonium 209	NT3 radon 217
NT3 nobelium 255	NT3 polonium 210	NT3 radon 218
NT3 nobelium 256	NT3 polonium 211	NT3 radon 219
NT3 nobelium 257	NT3 polonium 212	NT3 radon 220
NT3 nobelium 259	NT3 polonium 213	NT3 radon 221
NT3 nobelium 260	NT3 polonium 214	NT3 radon 222
NT3 osmium 162	NT3 polonium 215	NT3 rhenium 160
NT3 osmium 163	NT3 polonium 216	NT3 rhenium 161
NT3 osmium 164	NT3 polonium 217	NT3 rhenium 162
NT3 osmium 165	NT3 polonium 218	NT3 rhenium 163
NT3 osmium 166	NT3 promethium 145	NT3 rhenium 164
NT3 osmium 167	NT3 protactinium 212	NT3 rhenium 165
NT3 osmium 168	NT3 protactinium 213	NT3 rhenium 166
NT3 osmium 169	NT3 protactinium 214	NT3 rhenium 167
NT3 osmium 170	NT3 protactinium 215	NT3 rhenium 168
NT3 osmium 171	NT3 protactinium 216	NT3 rhenium 169
NT3 osmium 172	NT3 protactinium 217	NT3 roentgenium 272
NT3 osmium 173	NT3 protactinium 218	NT3 roentgenium 273
NT3 osmium 174	NT3 protactinium 219	NT3 roentgenium 274
NT3 osmium 186	NT3 protactinium 220	NT3 roentgenium 279
NT3 platinum 168	NT3 protactinium 221	NT3 roentgenium 280
NT3 platinum 169	NT3 protactinium 222	NT3 rutherfordium 253
NT3 platinum 170	NT3 protactinium 223	NT3 rutherfordium 254
NT3 platinum 171	NT3 protactinium 224	NT3 rutherfordium 255
NT3 platinum 172	NT3 protactinium 225	NT3 rutherfordium 256
NT3 platinum 173	NT3 protactinium 226	NT3 rutherfordium 257
NT3 platinum 174	NT3 protactinium 227	NT3 rutherfordium 258
NT3 platinum 175	NT3 protactinium 228	NT3 rutherfordium 259
NT3 platinum 176	NT3 protactinium 229	NT3 rutherfordium 261
NT3 platinum 177	NT3 protactinium 230	NT3 samarium 146
NT3 platinum 178	NT3 protactinium 231	NT3 samarium 147
NT3 platinum 179	NT3 radium 201	NT3 samarium 148
NT3 platinum 180	NT3 radium 202	NT3 seaborgium 258
NT3 platinum 181	NT3 radium 203	NT3 seaborgium 259
NT3 platinum 182	NT3 radium 204	NT3 seaborgium 260
NT3 platinum 183	NT3 radium 205	NT3 seaborgium 261
NT3 platinum 184	NT3 radium 206	NT3 seaborgium 262
NT3 platinum 185	NT3 radium 207	NT3 seaborgium 263
NT3 platinum 186	NT3 radium 208	NT3 seaborgium 264
NT3 platinum 188	NT3 radium 209	NT3 seaborgium 265
NT3 platinum 190	NT3 radium 210	NT3 seaborgium 266
NT3 plutonium 228	NT3 radium 211	NT3 seaborgium 268
NT3 plutonium 229	NT3 radium 212	NT3 seaborgium 270
NT3 plutonium 230	NT3 radium 213	NT3 seaborgium 271
NT3 plutonium 232	NT3 radium 214	NT3 seaborgium 272
NT3 plutonium 233	NT3 radium 215	NT3 tantalum 157
NT3 plutonium 234	NT3 radium 216	NT3 tantalum 158
NT3 plutonium 235	NT3 radium 217	NT3 tantalum 159
NT3 plutonium 236	NT3 radium 218	NT3 tantalum 160
NT3 plutonium 237	NT3 radium 219	NT3 tantalum 161
NT3 plutonium 238	NT3 radium 220	NT3 tantalum 163
NT3 plutonium 239	NT3 radium 221	NT3 tantalum 164
NT3 plutonium 240	NT3 radium 222	NT3 tellurium 105
NT3 plutonium 241	NT3 radium 223	NT3 tellurium 106
NT3 plutonium 242	NT3 radium 224	NT3 tellurium 107
NT3 plutonium 244	NT3 radium 226	NT3 tellurium 108
NT3 polonium 186	NT3 radon 193	NT3 tellurium 109
NT3 polonium 187	NT3 radon 194	NT3 tellurium 110
NT3 polonium 188	NT3 radon 195	NT3 terbium 149

**NT3** terbium 151  
**NT3** thallium 177  
**NT3** thallium 178  
**NT3** thallium 179  
**NT3** thallium 180  
**NT3** thallium 181  
**NT3** thallium 182  
**NT3** thallium 183  
**NT3** thallium 184  
**NT3** thallium 185  
**NT3** thallium 186  
**NT3** thallium 187  
**NT3** thorium 209  
**NT3** thorium 210  
**NT3** thorium 211  
**NT3** thorium 212  
**NT3** thorium 213  
**NT3** thorium 214  
**NT3** thorium 215  
**NT3** thorium 216  
**NT3** thorium 217  
**NT3** thorium 218  
**NT3** thorium 219  
**NT3** thorium 220  
**NT3** thorium 221  
**NT3** thorium 222  
**NT3** thorium 223  
**NT3** thorium 224  
**NT3** thorium 225  
**NT3** thorium 226  
**NT3** thorium 227  
**NT3** thorium 228  
**NT3** thorium 229  
**NT3** thorium 230  
**NT3** thorium 232  
**NT3** thulium 153  
**NT3** thulium 154  
**NT3** thulium 155  
**NT3** thulium 156  
**NT3** thulium 157  
**NT3** tungsten 158  
**NT3** tungsten 159  
**NT3** tungsten 160  
**NT3** tungsten 161  
**NT3** tungsten 162  
**NT3** tungsten 163  
**NT3** tungsten 164  
**NT3** tungsten 165  
**NT3** tungsten 166  
**NT3** uranium 217  
**NT3** uranium 218  
**NT3** uranium 219  
**NT3** uranium 220  
**NT3** uranium 221  
**NT3** uranium 222  
**NT3** uranium 223  
**NT3** uranium 224  
**NT3** uranium 225  
**NT3** uranium 226  
**NT3** uranium 227  
**NT3** uranium 228  
**NT3** uranium 229  
**NT3** uranium 230  
**NT3** uranium 231  
**NT3** uranium 232  
**NT3** uranium 233  
**NT3** uranium 234  
**NT3** uranium 235  
**NT3** uranium 236  
**NT3** uranium 238  
**NT3** xenon 109  
**NT3** xenon 110  
**NT3** xenon 111  
**NT3** xenon 112  
**NT3** ytterbium 154  
**NT3** ytterbium 155  
**NT3** ytterbium 156  
**NT3** ytterbium 157  
**NT3** ytterbium 158

**NT2** beta decay radioisotopes

**NT3** beta-minus decay radioisotopes  
**NT4** actinium 226  
**NT4** actinium 227  
**NT4** actinium 228  
**NT4** actinium 229  
**NT4** actinium 230  
**NT4** actinium 231  
**NT4** actinium 232  
**NT4** actinium 233  
**NT4** actinium 234  
**NT4** actinium 235  
**NT4** actinium 236  
**NT4** aluminium 28  
**NT4** aluminium 29  
**NT4** aluminium 30  
**NT4** aluminium 31  
**NT4** aluminium 32  
**NT4** aluminium 34  
**NT4** aluminium 36  
**NT4** aluminium 37  
**NT4** aluminium 40  
**NT4** aluminium 41  
**NT4** aluminium 42  
**NT4** americium 242  
**NT4** americium 244  
**NT4** americium 245  
**NT4** americium 246  
**NT4** americium 247  
**NT4** americium 248  
**NT4** americium 249  
**NT4** antimony 122  
**NT4** antimony 124  
**NT4** antimony 125  
**NT4** antimony 126  
**NT4** antimony 127  
**NT4** antimony 128  
**NT4** antimony 129  
**NT4** antimony 130  
**NT4** antimony 131  
**NT4** antimony 132  
**NT4** antimony 133  
**NT4** antimony 134  
**NT4** antimony 135  
**NT4** antimony 136  
**NT4** antimony 137  
**NT4** antimony 138  
**NT4** antimony 139  
**NT4** argon 39  
**NT4** argon 41  
**NT4** argon 42  
**NT4** argon 43  
**NT4** argon 44  
**NT4** argon 45  
**NT4** argon 46  
**NT4** argon 48  
**NT4** argon 52  
**NT4** argon 53  
**NT4** arsenic 74  
**NT4** arsenic 76  
**NT4** arsenic 77  
**NT4** arsenic 78  
**NT4** arsenic 79  
**NT4** arsenic 80  
**NT4** arsenic 81  
**NT4** arsenic 82  
**NT4** arsenic 83  
**NT4** arsenic 84  
**NT4** arsenic 85  
**NT4** arsenic 86  
**NT4** arsenic 87  
**NT4** arsenic 88  
**NT4** arsenic 89  
**NT4** arsenic 90  
**NT4** arsenic 91  
**NT4** arsenic 92  
**NT4** astatine 217  
**NT4** astatine 218  
**NT4** astatine 219

**NT4** astatine 220  
**NT4** astatine 221  
**NT4** astatine 222  
**NT4** astatine 223  
**NT4** barium 139  
**NT4** barium 140  
**NT4** barium 141  
**NT4** barium 142  
**NT4** barium 143  
**NT4** barium 144  
**NT4** barium 145  
**NT4** barium 146  
**NT4** barium 147  
**NT4** barium 148  
**NT4** barium 149  
**NT4** barium 150  
**NT4** barium 151  
**NT4** barium 152  
**NT4** barium 153  
**NT4** berkelium 248  
**NT4** berkelium 249  
**NT4** berkelium 250  
**NT4** berkelium 251  
**NT4** berkelium 252  
**NT4** berkelium 253  
**NT4** berkelium 254  
**NT4** beryllium 10  
**NT4** beryllium 11  
**NT4** beryllium 12  
**NT4** beryllium 14  
**NT4** bismuth 210  
**NT4** bismuth 211  
**NT4** bismuth 212  
**NT4** bismuth 213  
**NT4** bismuth 214  
**NT4** bismuth 215  
**NT4** bismuth 216  
**NT4** bismuth 217  
**NT4** bismuth 218  
**NT4** boron 12  
**NT4** boron 13  
**NT4** boron 14  
**NT4** boron 15  
**NT4** boron 16  
**NT4** boron 17  
**NT4** boron 19  
**NT4** bromine 80  
**NT4** bromine 82  
**NT4** bromine 83  
**NT4** bromine 84  
**NT4** bromine 85  
**NT4** bromine 86  
**NT4** bromine 87  
**NT4** bromine 88  
**NT4** bromine 89  
**NT4** bromine 90  
**NT4** bromine 91  
**NT4** bromine 92  
**NT4** bromine 93  
**NT4** bromine 94  
**NT4** bromine 95  
**NT4** bromine 96  
**NT4** bromine 97  
**NT4** cadmium 113  
**NT4** cadmium 115  
**NT4** cadmium 117  
**NT4** cadmium 118  
**NT4** cadmium 119  
**NT4** cadmium 120  
**NT4** cadmium 121  
**NT4** cadmium 122  
**NT4** cadmium 123  
**NT4** cadmium 124  
**NT4** cadmium 125  
**NT4** cadmium 126  
**NT4** cadmium 127  
**NT4** cadmium 128  
**NT4** cadmium 129  
**NT4** cadmium 130

NT4 cadmium 131	NT4 cobalt 63	NT4 francium 226
NT4 cadmium 132	NT4 cobalt 64	NT4 francium 227
NT4 calcium 45	NT4 cobalt 65	NT4 francium 228
NT4 calcium 47	NT4 cobalt 66	NT4 francium 229
NT4 calcium 49	NT4 cobalt 67	NT4 francium 230
NT4 calcium 50	NT4 cobalt 71	NT4 francium 231
NT4 calcium 51	NT4 cobalt 72	NT4 gadolinium 159
NT4 calcium 52	NT4 cobalt 73	NT4 gadolinium 161
NT4 calcium 53	NT4 cobalt 74	NT4 gadolinium 162
NT4 calcium 54	NT4 cobalt 75	NT4 gadolinium 163
NT4 calcium 55	NT4 copper 64	NT4 gadolinium 164
NT4 calcium 56	NT4 copper 66	NT4 gadolinium 165
NT4 calcium 57	NT4 copper 67	NT4 gadolinium 166
NT4 calcium 58	NT4 copper 68	NT4 gadolinium 168
NT4 calcium 60	NT4 copper 69	NT4 gallium 70
NT4 californium 253	NT4 copper 70	NT4 gallium 72
NT4 californium 255	NT4 copper 71	NT4 gallium 73
NT4 carbon 14	NT4 copper 72	NT4 gallium 74
NT4 carbon 15	NT4 copper 73	NT4 gallium 75
NT4 carbon 16	NT4 copper 74	NT4 gallium 76
NT4 carbon 17	NT4 copper 75	NT4 gallium 77
NT4 carbon 18	NT4 copper 76	NT4 gallium 78
NT4 cerium 141	NT4 copper 77	NT4 gallium 79
NT4 cerium 143	NT4 copper 78	NT4 gallium 80
NT4 cerium 144	NT4 copper 79	NT4 gallium 81
NT4 cerium 145	NT4 copper 80	NT4 gallium 82
NT4 cerium 146	NT4 curium 249	NT4 gallium 83
NT4 cerium 147	NT4 curium 250	NT4 gallium 84
NT4 cerium 148	NT4 curium 251	NT4 gallium 85
NT4 cerium 149	NT4 dysprosium 165	NT4 gallium 86
NT4 cerium 150	NT4 dysprosium 166	NT4 germanium 75
NT4 cerium 151	NT4 dysprosium 167	NT4 germanium 77
NT4 cerium 152	NT4 dysprosium 168	NT4 germanium 78
NT4 cerium 153	NT4 dysprosium 169	NT4 germanium 79
NT4 cerium 154	NT4 dysprosium 170	NT4 germanium 80
NT4 cerium 155	NT4 dysprosium 171	NT4 germanium 81
NT4 cerium 156	NT4 dysprosium 172	NT4 germanium 82
NT4 cerium 157	NT4 dysprosium 173	NT4 germanium 83
NT4 cesium 130	NT4 einsteinium 254	NT4 germanium 84
NT4 cesium 132	NT4 einsteinium 255	NT4 germanium 85
NT4 cesium 134	NT4 einsteinium 256	NT4 germanium 86
NT4 cesium 135	NT4 einsteinium 257	NT4 germanium 87
NT4 cesium 136	NT4 erbium 169	NT4 germanium 88
NT4 cesium 137	NT4 erbium 171	NT4 germanium 89
NT4 cesium 138	NT4 erbium 172	NT4 gold 196
NT4 cesium 139	NT4 erbium 173	NT4 gold 198
NT4 cesium 140	NT4 erbium 174	NT4 gold 199
NT4 cesium 141	NT4 erbium 175	NT4 gold 200
NT4 cesium 142	NT4 erbium 176	NT4 gold 201
NT4 cesium 143	NT4 erbium 177	NT4 gold 202
NT4 cesium 144	NT4 europium 150	NT4 gold 203
NT4 cesium 145	NT4 europium 152	NT4 gold 204
NT4 cesium 146	NT4 europium 154	NT4 gold 205
NT4 cesium 147	NT4 europium 155	NT4 hafnium 181
NT4 cesium 148	NT4 europium 156	NT4 hafnium 182
NT4 cesium 149	NT4 europium 157	NT4 hafnium 183
NT4 cesium 150	NT4 europium 158	NT4 hafnium 184
NT4 cesium 151	NT4 europium 159	NT4 hafnium 187
NT4 chlorine 36	NT4 europium 160	NT4 hafnium 188
NT4 chlorine 38	NT4 europium 161	NT4 helium 6
NT4 chlorine 39	NT4 europium 162	NT4 helium 7
NT4 chlorine 40	NT4 europium 163	NT4 helium 8
NT4 chlorine 41	NT4 europium 164	NT4 holmium 164
NT4 chlorine 50	NT4 europium 165	NT4 holmium 166
NT4 chromium 55	NT4 europium 166	NT4 holmium 167
NT4 chromium 56	NT4 europium 167	NT4 holmium 168
NT4 chromium 57	NT4 fluorine 20	NT4 holmium 169
NT4 chromium 58	NT4 fluorine 21	NT4 holmium 170
NT4 chromium 59	NT4 fluorine 22	NT4 holmium 171
NT4 chromium 60	NT4 fluorine 23	NT4 holmium 172
NT4 chromium 62	NT4 fluorine 24	NT4 holmium 173
NT4 chromium 63	NT4 fluorine 25	NT4 holmium 174
NT4 chromium 64	NT4 fluorine 26	NT4 holmium 175
NT4 chromium 65	NT4 fluorine 27	NT4 indium 112
NT4 chromium 66	NT4 francium 220	NT4 indium 114
NT4 chromium 67	NT4 francium 222	NT4 indium 115
NT4 cobalt 60	NT4 francium 223	NT4 indium 116
NT4 cobalt 61	NT4 francium 224	NT4 indium 117
NT4 cobalt 62	NT4 francium 225	NT4 indium 118

NT4	indium 119	NT4	lanthanum 153	NT4	neon 23
NT4	indium 120	NT4	lanthanum 154	NT4	neon 24
NT4	indium 121	NT4	lanthanum 155	NT4	neon 25
NT4	indium 122	NT4	lead 209	NT4	neon 26
NT4	indium 123	NT4	lead 210	NT4	neon 27
NT4	indium 124	NT4	lead 211	NT4	neon 29
NT4	indium 125	NT4	lead 212	NT4	neon 30
NT4	indium 126	NT4	lead 213	NT4	neon 31
NT4	indium 127	NT4	lead 214	NT4	neon 33
NT4	indium 128	NT4	lithium 11	NT4	neon 34
NT4	indium 129	NT4	lithium 13	NT4	neptunium 236
NT4	indium 130	NT4	lithium 8	NT4	neptunium 238
NT4	indium 131	NT4	lithium 9	NT4	neptunium 239
NT4	indium 132	NT4	lutetium 176	NT4	neptunium 240
NT4	indium 133	NT4	lutetium 177	NT4	neptunium 241
NT4	indium 134	NT4	lutetium 178	NT4	neptunium 242
NT4	indium 135	NT4	lutetium 179	NT4	neptunium 243
NT4	iodine 126	NT4	lutetium 180	NT4	neptunium 244
NT4	iodine 128	NT4	lutetium 181	NT4	neutron-rich isotopes
NT4	iodine 129	NT4	lutetium 182	NT4	nickel 63
NT4	iodine 130	NT4	lutetium 183	NT4	nickel 65
NT4	iodine 131	NT4	lutetium 184	NT4	nickel 66
NT4	iodine 132	NT4	lutetium 187	NT4	nickel 67
NT4	iodine 133	NT4	magnesium 27	NT4	nickel 69
NT4	iodine 134	NT4	magnesium 28	NT4	nickel 70
NT4	iodine 135	NT4	magnesium 29	NT4	nickel 71
NT4	iodine 136	NT4	magnesium 30	NT4	nickel 72
NT4	iodine 137	NT4	magnesium 31	NT4	nickel 73
NT4	iodine 138	NT4	magnesium 32	NT4	nickel 74
NT4	iodine 139	NT4	magnesium 33	NT4	nickel 75
NT4	iodine 140	NT4	magnesium 34	NT4	nickel 76
NT4	iodine 141	NT4	magnesium 37	NT4	nickel 77
NT4	iodine 142	NT4	magnesium 38	NT4	niobium 100
NT4	iodine 143	NT4	magnesium 39	NT4	niobium 101
NT4	iodine 144	NT4	magnesium 40	NT4	niobium 102
NT4	iridium 192	NT4	manganese 56	NT4	niobium 103
NT4	iridium 194	NT4	manganese 57	NT4	niobium 104
NT4	iridium 195	NT4	manganese 58	NT4	niobium 105
NT4	iridium 196	NT4	manganese 59	NT4	niobium 106
NT4	iridium 197	NT4	manganese 60	NT4	niobium 107
NT4	iridium 198	NT4	manganese 61	NT4	niobium 108
NT4	iridium 199	NT4	manganese 62	NT4	niobium 109
NT4	iron 59	NT4	manganese 63	NT4	niobium 110
NT4	iron 60	NT4	manganese 66	NT4	niobium 111
NT4	iron 61	NT4	manganese 67	NT4	niobium 112
NT4	iron 62	NT4	manganese 68	NT4	niobium 113
NT4	iron 63	NT4	manganese 69	NT4	niobium 94
NT4	iron 64	NT4	mercury 203	NT4	niobium 95
NT4	iron 69	NT4	mercury 205	NT4	niobium 96
NT4	iron 70	NT4	mercury 206	NT4	niobium 97
NT4	iron 71	NT4	molybdenum 101	NT4	niobium 98
NT4	iron 72	NT4	molybdenum 102	NT4	niobium 99
NT4	krypton 100	NT4	molybdenum 103	NT4	nitrogen 16
NT4	krypton 85	NT4	molybdenum 104	NT4	nitrogen 17
NT4	krypton 87	NT4	molybdenum 105	NT4	nitrogen 18
NT4	krypton 88	NT4	molybdenum 106	NT4	nitrogen 19
NT4	krypton 89	NT4	molybdenum 107	NT4	nitrogen 20
NT4	krypton 90	NT4	molybdenum 108	NT4	nitrogen 22
NT4	krypton 91	NT4	molybdenum 109	NT4	nitrogen 23
NT4	krypton 92	NT4	molybdenum 110	NT4	osmium 191
NT4	krypton 93	NT4	molybdenum 111	NT4	osmium 193
NT4	krypton 94	NT4	molybdenum 112	NT4	osmium 194
NT4	krypton 95	NT4	molybdenum 113	NT4	osmium 195
NT4	krypton 97	NT4	molybdenum 114	NT4	osmium 196
NT4	krypton 99	NT4	molybdenum 115	NT4	osmium 197
NT4	lanthanum 138	NT4	molybdenum 99	NT4	osmium 199
NT4	lanthanum 140	NT4	neodymium 147	NT4	oxygen 19
NT4	lanthanum 141	NT4	neodymium 149	NT4	oxygen 20
NT4	lanthanum 142	NT4	neodymium 151	NT4	oxygen 21
NT4	lanthanum 143	NT4	neodymium 152	NT4	oxygen 22
NT4	lanthanum 144	NT4	neodymium 153	NT4	oxygen 23
NT4	lanthanum 145	NT4	neodymium 154	NT4	oxygen 24
NT4	lanthanum 146	NT4	neodymium 155	NT4	palladium 107
NT4	lanthanum 147	NT4	neodymium 156	NT4	palladium 109
NT4	lanthanum 148	NT4	neodymium 157	NT4	palladium 111
NT4	lanthanum 149	NT4	neodymium 158	NT4	palladium 112
NT4	lanthanum 150	NT4	neodymium 159	NT4	palladium 113
NT4	lanthanum 151	NT4	neodymium 160	NT4	palladium 114
NT4	lanthanum 152	NT4	neodymium 161	NT4	palladium 115

NT4	palladium 116	NT4	promethium 163	NT4	ruthenium 113
NT4	palladium 117	NT4	protactinium 230	NT4	ruthenium 114
NT4	palladium 118	NT4	protactinium 232	NT4	ruthenium 115
NT4	palladium 119	NT4	protactinium 233	NT4	ruthenium 116
NT4	palladium 120	NT4	protactinium 234	NT4	ruthenium 117
NT4	palladium 121	NT4	protactinium 235	NT4	ruthenium 118
NT4	palladium 122	NT4	protactinium 236	NT4	ruthenium 119
NT4	palladium 123	NT4	protactinium 237	NT4	ruthenium 120
NT4	palladium 124	NT4	protactinium 238	NT4	samarium 151
NT4	phosphorus 32	NT4	protactinium 239	NT4	samarium 153
NT4	phosphorus 33	NT4	protactinium 240	NT4	samarium 155
NT4	phosphorus 34	NT4	radium 225	NT4	samarium 156
NT4	phosphorus 35	NT4	radium 227	NT4	samarium 157
NT4	phosphorus 36	NT4	radium 228	NT4	samarium 158
NT4	phosphorus 37	NT4	radium 229	NT4	samarium 159
NT4	phosphorus 38	NT4	radium 230	NT4	samarium 160
NT4	phosphorus 40	NT4	radium 231	NT4	samarium 161
NT4	phosphorus 41	NT4	radium 232	NT4	samarium 162
NT4	phosphorus 42	NT4	radon 221	NT4	samarium 163
NT4	platinum 197	NT4	radon 223	NT4	samarium 164
NT4	platinum 199	NT4	radon 224	NT4	samarium 165
NT4	platinum 200	NT4	radon 225	NT4	scandium 46
NT4	platinum 201	NT4	radon 226	NT4	scandium 47
NT4	plutonium 241	NT4	radon 227	NT4	scandium 48
NT4	plutonium 243	NT4	radon 228	NT4	scandium 49
NT4	plutonium 245	NT4	rhenium 186	NT4	scandium 50
NT4	plutonium 246	NT4	rhenium 187	NT4	scandium 51
NT4	polonium 215	NT4	rhenium 188	NT4	scandium 52
NT4	polonium 218	NT4	rhenium 189	NT4	scandium 53
NT4	potassium 40	NT4	rhenium 190	NT4	scandium 56
NT4	potassium 42	NT4	rhenium 191	NT4	scandium 57
NT4	potassium 43	NT4	rhenium 192	NT4	scandium 58
NT4	potassium 44	NT4	rhenium 193	NT4	scandium 59
NT4	potassium 45	NT4	rhenium 194	NT4	scandium 60
NT4	potassium 46	NT4	rhodium 102	NT4	selenium 79
NT4	potassium 47	NT4	rhodium 104	NT4	selenium 81
NT4	potassium 48	NT4	rhodium 105	NT4	selenium 83
NT4	potassium 49	NT4	rhodium 106	NT4	selenium 84
NT4	potassium 50	NT4	rhodium 107	NT4	selenium 85
NT4	potassium 51	NT4	rhodium 108	NT4	selenium 86
NT4	potassium 52	NT4	rhodium 109	NT4	selenium 87
NT4	potassium 53	NT4	rhodium 110	NT4	selenium 88
NT4	potassium 54	NT4	rhodium 111	NT4	selenium 89
NT4	potassium 55	NT4	rhodium 112	NT4	selenium 91
NT4	praseodymium 142	NT4	rhodium 113	NT4	silicon 31
NT4	praseodymium 143	NT4	rhodium 114	NT4	silicon 32
NT4	praseodymium 144	NT4	rhodium 115	NT4	silicon 33
NT4	praseodymium 145	NT4	rhodium 116	NT4	silicon 34
NT4	praseodymium 146	NT4	rhodium 117	NT4	silicon 35
NT4	praseodymium 147	NT4	rhodium 118	NT4	silicon 36
NT4	praseodymium 148	NT4	rhodium 119	NT4	silicon 37
NT4	praseodymium 149	NT4	rhodium 120	NT4	silicon 38
NT4	praseodymium 150	NT4	rhodium 121	NT4	silicon 39
NT4	praseodymium 151	NT4	rhodium 122	NT4	silicon 43
NT4	praseodymium 152	NT4	rubidium 100	NT4	silicon 44
NT4	praseodymium 153	NT4	rubidium 84	NT4	silver 108
NT4	praseodymium 154	NT4	rubidium 86	NT4	silver 110
NT4	praseodymium 155	NT4	rubidium 87	NT4	silver 111
NT4	praseodymium 156	NT4	rubidium 88	NT4	silver 112
NT4	praseodymium 157	NT4	rubidium 89	NT4	silver 113
NT4	praseodymium 158	NT4	rubidium 90	NT4	silver 114
NT4	praseodymium 159	NT4	rubidium 91	NT4	silver 115
NT4	promethium 146	NT4	rubidium 92	NT4	silver 116
NT4	promethium 147	NT4	rubidium 93	NT4	silver 117
NT4	promethium 148	NT4	rubidium 94	NT4	silver 118
NT4	promethium 149	NT4	rubidium 95	NT4	silver 119
NT4	promethium 150	NT4	rubidium 96	NT4	silver 120
NT4	promethium 151	NT4	rubidium 97	NT4	silver 121
NT4	promethium 152	NT4	rubidium 98	NT4	silver 122
NT4	promethium 153	NT4	rubidium 99	NT4	silver 123
NT4	promethium 154	NT4	ruthenium 103	NT4	silver 124
NT4	promethium 155	NT4	ruthenium 105	NT4	silver 125
NT4	promethium 156	NT4	ruthenium 106	NT4	silver 126
NT4	promethium 157	NT4	ruthenium 107	NT4	silver 127
NT4	promethium 158	NT4	ruthenium 108	NT4	silver 128
NT4	promethium 159	NT4	ruthenium 109	NT4	silver 129
NT4	promethium 160	NT4	ruthenium 110	NT4	silver 130
NT4	promethium 161	NT4	ruthenium 111	NT4	sodium 24
NT4	promethium 162	NT4	ruthenium 112	NT4	sodium 25

NT4	sodium 26	NT4	terbium 156	NT4	vanadium 53
NT4	sodium 27	NT4	terbium 158	NT4	vanadium 54
NT4	sodium 28	NT4	terbium 160	NT4	vanadium 55
NT4	sodium 29	NT4	terbium 161	NT4	vanadium 56
NT4	sodium 30	NT4	terbium 162	NT4	vanadium 57
NT4	sodium 31	NT4	terbium 163	NT4	vanadium 58
NT4	sodium 32	NT4	terbium 164	NT4	vanadium 61
NT4	sodium 33	NT4	terbium 165	NT4	vanadium 62
NT4	sodium 34	NT4	terbium 166	NT4	vanadium 63
NT4	sodium 35	NT4	terbium 167	NT4	vanadium 64
NT4	sodium 37	NT4	terbium 168	NT4	vanadium 65
NT4	strontium 100	NT4	terbium 169	NT4	xenon 133
NT4	strontium 101	NT4	terbium 170	NT4	xenon 135
NT4	strontium 102	NT4	terbium 171	NT4	xenon 137
NT4	strontium 103	NT4	thallium 204	NT4	xenon 138
NT4	strontium 104	NT4	thallium 206	NT4	xenon 139
NT4	strontium 105	NT4	thallium 207	NT4	xenon 140
NT4	strontium 89	NT4	thallium 208	NT4	xenon 141
NT4	strontium 90	NT4	thallium 209	NT4	xenon 142
NT4	strontium 91	NT4	thallium 210	NT4	xenon 143
NT4	strontium 92	NT4	thallium 211	NT4	xenon 144
NT4	strontium 93	NT4	thallium 212	NT4	xenon 145
NT4	strontium 94	NT4	thorium 231	NT4	xenon 147
NT4	strontium 95	NT4	thorium 233	NT4	ytterbium 175
NT4	strontium 96	NT4	thorium 234	NT4	ytterbium 177
NT4	strontium 97	NT4	thorium 235	NT4	ytterbium 178
NT4	strontium 98	NT4	thorium 236	NT4	ytterbium 179
NT4	strontium 99	NT4	thorium 237	NT4	ytterbium 180
NT4	sulfur 35	NT4	thulium 168	NT4	ytterbium 181
NT4	sulfur 37	NT4	thulium 170	NT4	yttrium 100
NT4	sulfur 38	NT4	thulium 171	NT4	yttrium 101
NT4	sulfur 39	NT4	thulium 172	NT4	yttrium 102
NT4	sulfur 40	NT4	thulium 173	NT4	yttrium 103
NT4	sulfur 43	NT4	thulium 174	NT4	yttrium 104
NT4	tantalum 180	NT4	thulium 175	NT4	yttrium 105
NT4	tantalum 182	NT4	thulium 176	NT4	yttrium 106
NT4	tantalum 183	NT4	thulium 177	NT4	yttrium 107
NT4	tantalum 184	NT4	thulium 178	NT4	yttrium 108
NT4	tantalum 185	NT4	thulium 179	NT4	yttrium 90
NT4	tantalum 186	NT4	tin 121	NT4	yttrium 91
NT4	tantalum 187	NT4	tin 123	NT4	yttrium 92
NT4	tantalum 188	NT4	tin 125	NT4	yttrium 93
NT4	tantalum 189	NT4	tin 126	NT4	yttrium 94
NT4	tantalum 190	NT4	tin 127	NT4	yttrium 95
NT4	technetium 100	NT4	tin 128	NT4	yttrium 96
NT4	technetium 101	NT4	tin 129	NT4	yttrium 97
NT4	technetium 102	NT4	tin 130	NT4	yttrium 98
NT4	technetium 103	NT4	tin 131	NT4	yttrium 99
NT4	technetium 104	NT4	tin 132	NT4	zinc 69
NT4	technetium 105	NT4	tin 133	NT4	zinc 71
NT4	technetium 106	NT4	tin 134	NT4	zinc 72
NT4	technetium 107	NT4	tin 135	NT4	zinc 73
NT4	technetium 108	NT4	tin 136	NT4	zinc 74
NT4	technetium 109	NT4	tin 137	NT4	zinc 75
NT4	technetium 110	NT4	titanium 51	NT4	zinc 76
NT4	technetium 111	NT4	titanium 52	NT4	zinc 77
NT4	technetium 112	NT4	titanium 53	NT4	zinc 78
NT4	technetium 113	NT4	titanium 54	NT4	zinc 79
NT4	technetium 114	NT4	titanium 55	NT4	zinc 80
NT4	technetium 115	NT4	titanium 56	NT4	zinc 81
NT4	technetium 116	NT4	titanium 58	NT4	zinc 82
NT4	technetium 117	NT4	titanium 59	NT4	zinc 83
NT4	technetium 118	NT4	titanium 60	NT4	zirconium 100
NT4	technetium 98	NT4	titanium 61	NT4	zirconium 101
NT4	technetium 99	NT4	titanium 62	NT4	zirconium 102
NT4	tellurium 127	NT4	titanium 63	NT4	zirconium 103
NT4	tellurium 129	NT4	tritium	NT4	zirconium 104
NT4	tellurium 131	NT4	tungsten 185	NT4	zirconium 105
NT4	tellurium 132	NT4	tungsten 187	NT4	zirconium 106
NT4	tellurium 133	NT4	tungsten 188	NT4	zirconium 107
NT4	tellurium 134	NT4	tungsten 189	NT4	zirconium 108
NT4	tellurium 135	NT4	tungsten 191	NT4	zirconium 109
NT4	tellurium 136	NT4	uranium 237	NT4	zirconium 110
NT4	tellurium 137	NT4	uranium 239	NT4	zirconium 93
NT4	tellurium 138	NT4	uranium 240	NT4	zirconium 95
NT4	tellurium 139	NT4	uranium 241	NT4	zirconium 97
NT4	tellurium 140	NT4	uranium 242	NT4	zirconium 98
NT4	tellurium 141	NT4	vanadium 50	NT4	zirconium 99
NT4	tellurium 142	NT4	vanadium 52	NT3	beta-plus decay radioisotopes

NT4	aluminium 22	NT4	cadmium 107	NT4	erbium 147
NT4	aluminium 23	NT4	cadmium 97	NT4	erbium 148
NT4	aluminium 24	NT4	cadmium 98	NT4	erbium 149
NT4	aluminium 25	NT4	cadmium 99	NT4	erbium 150
NT4	aluminium 26	NT4	calcium 36	NT4	erbium 151
NT4	americium 235	NT4	calcium 37	NT4	erbium 152
NT4	americium 236	NT4	calcium 38	NT4	erbium 153
NT4	antimony 104	NT4	calcium 39	NT4	erbium 154
NT4	antimony 105	NT4	carbon 10	NT4	erbium 155
NT4	antimony 108	NT4	carbon 11	NT4	erbium 156
NT4	antimony 110	NT4	carbon 9	NT4	erbium 157
NT4	antimony 111	NT4	cerium 121	NT4	erbium 158
NT4	antimony 112	NT4	cerium 125	NT4	erbium 159
NT4	antimony 113	NT4	cerium 127	NT4	erbium 161
NT4	antimony 114	NT4	cerium 128	NT4	erbium 163
NT4	antimony 115	NT4	cerium 129	NT4	europium 132
NT4	antimony 116	NT4	cerium 130	NT4	europium 134
NT4	antimony 117	NT4	cerium 131	NT4	europium 135
NT4	antimony 118	NT4	cerium 132	NT4	europium 136
NT4	antimony 120	NT4	cerium 133	NT4	europium 138
NT4	antimony 122	NT4	cerium 135	NT4	europium 139
NT4	argon 31	NT4	cerium 137	NT4	europium 140
NT4	argon 32	NT4	cesium 114	NT4	europium 141
NT4	argon 33	NT4	cesium 115	NT4	europium 142
NT4	argon 34	NT4	cesium 116	NT4	europium 143
NT4	argon 35	NT4	cesium 117	NT4	europium 144
NT4	arsenic 66	NT4	cesium 118	NT4	europium 145
NT4	arsenic 67	NT4	cesium 119	NT4	europium 146
NT4	arsenic 68	NT4	cesium 120	NT4	europium 147
NT4	arsenic 69	NT4	cesium 121	NT4	europium 148
NT4	arsenic 70	NT4	cesium 122	NT4	europium 150
NT4	arsenic 71	NT4	cesium 123	NT4	europium 152
NT4	arsenic 72	NT4	cesium 124	NT4	fluorine 17
NT4	arsenic 74	NT4	cesium 125	NT4	fluorine 18
NT4	astatine 205	NT4	cesium 126	NT4	gadolinium 135
NT4	astatine 206	NT4	cesium 127	NT4	gadolinium 137
NT4	barium 114	NT4	cesium 128	NT4	gadolinium 139
NT4	barium 115	NT4	cesium 129	NT4	gadolinium 142
NT4	barium 116	NT4	cesium 130	NT4	gadolinium 143
NT4	barium 117	NT4	cesium 132	NT4	gadolinium 144
NT4	barium 118	NT4	chlorine 31	NT4	gadolinium 145
NT4	barium 119	NT4	chlorine 32	NT4	gadolinium 146
NT4	barium 120	NT4	chlorine 33	NT4	gadolinium 147
NT4	barium 121	NT4	chlorine 34	NT4	gallium 60
NT4	barium 122	NT4	chlorine 36	NT4	gallium 62
NT4	barium 123	NT4	chromium 42	NT4	gallium 63
NT4	barium 124	NT4	chromium 45	NT4	gallium 64
NT4	barium 125	NT4	chromium 46	NT4	gallium 65
NT4	barium 126	NT4	chromium 47	NT4	gallium 66
NT4	barium 127	NT4	chromium 49	NT4	gallium 68
NT4	barium 129	NT4	cobalt 52	NT4	germanium 61
NT4	berkelium 236	NT4	cobalt 53	NT4	germanium 63
NT4	berkelium 238	NT4	cobalt 54	NT4	germanium 64
NT4	bismuth 194	NT4	cobalt 55	NT4	germanium 65
NT4	bismuth 197	NT4	cobalt 56	NT4	germanium 66
NT4	bismuth 200	NT4	cobalt 58	NT4	germanium 67
NT4	bismuth 202	NT4	copper 56	NT4	germanium 69
NT4	bismuth 203	NT4	copper 57	NT4	gold 182
NT4	bismuth 205	NT4	copper 58	NT4	gold 184
NT4	bismuth 206	NT4	copper 59	NT4	gold 185
NT4	bismuth 207	NT4	copper 60	NT4	gold 186
NT4	boron 8	NT4	copper 61	NT4	gold 187
NT4	bromine 69	NT4	copper 62	NT4	gold 188
NT4	bromine 70	NT4	copper 64	NT4	gold 189
NT4	bromine 71	NT4	curium 232	NT4	gold 190
NT4	bromine 72	NT4	dysprosium 140	NT4	gold 192
NT4	bromine 73	NT4	dysprosium 145	NT4	gold 194
NT4	bromine 74	NT4	dysprosium 146	NT4	gold 196
NT4	bromine 75	NT4	dysprosium 147	NT4	hafnium 154
NT4	bromine 76	NT4	dysprosium 148	NT4	hafnium 155
NT4	bromine 77	NT4	dysprosium 149	NT4	hafnium 162
NT4	bromine 78	NT4	dysprosium 150	NT4	hafnium 163
NT4	bromine 80	NT4	dysprosium 151	NT4	hafnium 166
NT4	cadmium 100	NT4	dysprosium 152	NT4	hafnium 167
NT4	cadmium 101	NT4	dysprosium 153	NT4	hafnium 168
NT4	cadmium 102	NT4	dysprosium 155	NT4	hafnium 169
NT4	cadmium 103	NT4	dysprosium 157	NT4	holmium 145
NT4	cadmium 104	NT4	erbium 145	NT4	holmium 146
NT4	cadmium 105	NT4	erbium 146	NT4	holmium 147

NT4	holmium 148	NT4	lead 188	NT4	niobium 89
NT4	holmium 149	NT4	lead 189	NT4	niobium 90
NT4	holmium 150	NT4	lead 190	NT4	niobium 92
NT4	holmium 151	NT4	lead 191	NT4	nitrogen 12
NT4	holmium 152	NT4	lead 192	NT4	nitrogen 13
NT4	holmium 153	NT4	lead 193	NT4	osmium 172
NT4	holmium 154	NT4	lead 194	NT4	osmium 173
NT4	holmium 155	NT4	lead 195	NT4	osmium 174
NT4	holmium 156	NT4	lead 199	NT4	osmium 175
NT4	holmium 157	NT4	lead 201	NT4	osmium 176
NT4	holmium 158	NT4	lutetium 153	NT4	osmium 177
NT4	holmium 160	NT4	lutetium 161	NT4	osmium 178
NT4	holmium 162	NT4	lutetium 162	NT4	osmium 179
NT4	indium 100	NT4	lutetium 163	NT4	osmium 181
NT4	indium 103	NT4	lutetium 164	NT4	osmium 183
NT4	indium 104	NT4	lutetium 165	NT4	oxygen 13
NT4	indium 105	NT4	lutetium 166	NT4	oxygen 14
NT4	indium 106	NT4	lutetium 167	NT4	oxygen 15
NT4	indium 107	NT4	lutetium 168	NT4	palladium 101
NT4	indium 108	NT4	lutetium 169	NT4	palladium 93
NT4	indium 109	NT4	lutetium 170	NT4	palladium 94
NT4	indium 110	NT4	lutetium 171	NT4	palladium 95
NT4	indium 112	NT4	lutetium 174	NT4	palladium 97
NT4	indium 114	NT4	magnesium 20	NT4	palladium 98
NT4	iodine 110	NT4	magnesium 21	NT4	palladium 99
NT4	iodine 111	NT4	magnesium 22	NT4	phosphorus 26
NT4	iodine 112	NT4	magnesium 23	NT4	phosphorus 28
NT4	iodine 113	NT4	manganese 48	NT4	phosphorus 29
NT4	iodine 114	NT4	manganese 49	NT4	phosphorus 30
NT4	iodine 115	NT4	manganese 50	NT4	platinum 174
NT4	iodine 116	NT4	manganese 51	NT4	platinum 182
NT4	iodine 117	NT4	manganese 52	NT4	platinum 183
NT4	iodine 118	NT4	mercury 179	NT4	platinum 184
NT4	iodine 119	NT4	mercury 181	NT4	platinum 185
NT4	iodine 120	NT4	mercury 182	NT4	platinum 187
NT4	iodine 121	NT4	mercury 183	NT4	platinum 189
NT4	iodine 122	NT4	mercury 184	NT4	polonium 198
NT4	iodine 124	NT4	mercury 185	NT4	polonium 199
NT4	iodine 126	NT4	mercury 186	NT4	polonium 200
NT4	iodine 128	NT4	mercury 187	NT4	polonium 201
NT4	iridium 178	NT4	mercury 188	NT4	polonium 202
NT4	iridium 179	NT4	mercury 191	NT4	polonium 203
NT4	iridium 180	NT4	mercury 193	NT4	polonium 205
NT4	iridium 181	NT4	molybdenum 86	NT4	polonium 207
NT4	iridium 182	NT4	molybdenum 87	NT4	potassium 35
NT4	iridium 183	NT4	molybdenum 88	NT4	potassium 36
NT4	iridium 184	NT4	molybdenum 89	NT4	potassium 37
NT4	iridium 185	NT4	molybdenum 90	NT4	potassium 38
NT4	iridium 186	NT4	molybdenum 91	NT4	potassium 40
NT4	iridium 188	NT4	neodymium 127	NT4	praseodymium 126
NT4	iridium 190	NT4	neodymium 128	NT4	praseodymium 127
NT4	iron 45	NT4	neodymium 129	NT4	praseodymium 129
NT4	iron 46	NT4	neodymium 130	NT4	praseodymium 130
NT4	iron 49	NT4	neodymium 131	NT4	praseodymium 131
NT4	iron 51	NT4	neodymium 132	NT4	praseodymium 132
NT4	iron 52	NT4	neodymium 133	NT4	praseodymium 133
NT4	iron 53	NT4	neodymium 134	NT4	praseodymium 134
NT4	krypton 69	NT4	neodymium 135	NT4	praseodymium 135
NT4	krypton 71	NT4	neodymium 136	NT4	praseodymium 136
NT4	krypton 72	NT4	neodymium 137	NT4	praseodymium 137
NT4	krypton 73	NT4	neodymium 138	NT4	praseodymium 138
NT4	krypton 74	NT4	neodymium 139	NT4	praseodymium 139
NT4	krypton 75	NT4	neodymium 141	NT4	praseodymium 140
NT4	krypton 77	NT4	neon 17	NT4	promethium 132
NT4	krypton 79	NT4	neon 18	NT4	promethium 133
NT4	lanthanum 121	NT4	neon 19	NT4	promethium 134
NT4	lanthanum 125	NT4	neptunium 234	NT4	promethium 135
NT4	lanthanum 126	NT4	nickel 49	NT4	promethium 136
NT4	lanthanum 127	NT4	nickel 50	NT4	promethium 137
NT4	lanthanum 128	NT4	nickel 52	NT4	promethium 138
NT4	lanthanum 129	NT4	nickel 53	NT4	promethium 139
NT4	lanthanum 130	NT4	nickel 55	NT4	promethium 140
NT4	lanthanum 131	NT4	nickel 56	NT4	promethium 141
NT4	lanthanum 132	NT4	nickel 57	NT4	promethium 142
NT4	lanthanum 133	NT4	niobium 83	NT4	protactinium 230
NT4	lanthanum 134	NT4	niobium 84	NT4	radon 207
NT4	lanthanum 135	NT4	niobium 85	NT4	radon 209
NT4	lanthanum 136	NT4	niobium 87	NT4	rhenium 165
NT4	lead 187	NT4	niobium 88	NT4	rhenium 170



NT4	rhenium 171	NT4	sodium 22	NT4	thallium 200
NT4	rhenium 172	NT4	strontium 75	NT4	thulium 148
NT4	rhenium 174	NT4	strontium 76	NT4	thulium 156
NT4	rhenium 175	NT4	strontium 77	NT4	thulium 157
NT4	rhenium 176	NT4	strontium 78	NT4	thulium 158
NT4	rhenium 177	NT4	strontium 79	NT4	thulium 159
NT4	rhenium 178	NT4	strontium 80	NT4	thulium 160
NT4	rhenium 179	NT4	strontium 81	NT4	thulium 161
NT4	rhenium 180	NT4	strontium 83	NT4	thulium 162
NT4	rhenium 182	NT4	sulfur 28	NT4	thulium 163
NT4	rhodium 100	NT4	sulfur 29	NT4	thulium 164
NT4	rhodium 102	NT4	sulfur 30	NT4	thulium 165
NT4	rhodium 91	NT4	sulfur 31	NT4	thulium 166
NT4	rhodium 92	NT4	tantalum 165	NT4	tin 100
NT4	rhodium 93	NT4	tantalum 166	NT4	tin 102
NT4	rhodium 94	NT4	tantalum 167	NT4	tin 103
NT4	rhodium 95	NT4	tantalum 168	NT4	tin 105
NT4	rhodium 96	NT4	tantalum 169	NT4	tin 106
NT4	rhodium 97	NT4	tantalum 170	NT4	tin 107
NT4	rhodium 98	NT4	tantalum 171	NT4	tin 108
NT4	rhodium 99	NT4	tantalum 172	NT4	tin 109
NT4	rubidium 73	NT4	tantalum 173	NT4	tin 111
NT4	rubidium 74	NT4	tantalum 174	NT4	titanium 39
NT4	rubidium 75	NT4	tantalum 175	NT4	titanium 40
NT4	rubidium 76	NT4	tantalum 176	NT4	titanium 41
NT4	rubidium 77	NT4	tantalum 177	NT4	titanium 42
NT4	rubidium 78	NT4	tantalum 178	NT4	titanium 43
NT4	rubidium 79	NT4	technetium 88	NT4	titanium 45
NT4	rubidium 80	NT4	technetium 89	NT4	tungsten 168
NT4	rubidium 81	NT4	technetium 90	NT4	tungsten 169
NT4	rubidium 82	NT4	technetium 91	NT4	tungsten 170
NT4	rubidium 84	NT4	technetium 92	NT4	tungsten 171
NT4	ruthenium 88	NT4	technetium 93	NT4	tungsten 172
NT4	ruthenium 89	NT4	technetium 94	NT4	tungsten 173
NT4	ruthenium 92	NT4	technetium 95	NT4	tungsten 175
NT4	ruthenium 93	NT4	technetium 96	NT4	tungsten 177
NT4	ruthenium 95	NT4	tellurium 107	NT4	tungsten 190
NT4	samarium 132	NT4	tellurium 108	NT4	vanadium 42
NT4	samarium 133	NT4	tellurium 109	NT4	vanadium 43
NT4	samarium 134	NT4	tellurium 110	NT4	vanadium 44
NT4	samarium 135	NT4	tellurium 111	NT4	vanadium 45
NT4	samarium 136	NT4	tellurium 112	NT4	vanadium 46
NT4	samarium 137	NT4	tellurium 113	NT4	vanadium 47
NT4	samarium 138	NT4	tellurium 114	NT4	vanadium 48
NT4	samarium 139	NT4	tellurium 115	NT4	xenon 110
NT4	samarium 140	NT4	tellurium 116	NT4	xenon 111
NT4	samarium 141	NT4	tellurium 117	NT4	xenon 112
NT4	samarium 142	NT4	tellurium 118	NT4	xenon 113
NT4	samarium 143	NT4	tellurium 119	NT4	xenon 114
NT4	scandium 40	NT4	tellurium 121	NT4	xenon 115
NT4	scandium 41	NT4	terbium 139	NT4	xenon 116
NT4	scandium 42	NT4	terbium 141	NT4	xenon 117
NT4	scandium 43	NT4	terbium 143	NT4	xenon 118
NT4	scandium 44	NT4	terbium 144	NT4	xenon 119
NT4	selenium 65	NT4	terbium 145	NT4	xenon 120
NT4	selenium 67	NT4	terbium 146	NT4	xenon 121
NT4	selenium 68	NT4	terbium 147	NT4	xenon 122
NT4	selenium 69	NT4	terbium 148	NT4	xenon 123
NT4	selenium 70	NT4	terbium 149	NT4	xenon 125
NT4	selenium 71	NT4	terbium 150	NT4	ytterbium 153
NT4	selenium 73	NT4	terbium 151	NT4	ytterbium 158
NT4	silicon 24	NT4	terbium 152	NT4	ytterbium 160
NT4	silicon 25	NT4	terbium 153	NT4	ytterbium 161
NT4	silicon 26	NT4	terbium 154	NT4	ytterbium 162
NT4	silicon 27	NT4	terbium 156	NT4	ytterbium 163
NT4	silver 100	NT4	thallium 182	NT4	ytterbium 165
NT4	silver 101	NT4	thallium 184	NT4	ytterbium 167
NT4	silver 102	NT4	thallium 186	NT4	yttrium 79
NT4	silver 103	NT4	thallium 188	NT4	yttrium 80
NT4	silver 104	NT4	thallium 189	NT4	yttrium 81
NT4	silver 105	NT4	thallium 190	NT4	yttrium 82
NT4	silver 106	NT4	thallium 191	NT4	yttrium 83
NT4	silver 108	NT4	thallium 192	NT4	yttrium 84
NT4	silver 94	NT4	thallium 193	NT4	yttrium 85
NT4	silver 96	NT4	thallium 194	NT4	yttrium 86
NT4	silver 98	NT4	thallium 195	NT4	yttrium 87
NT4	silver 99	NT4	thallium 196	NT4	yttrium 88
NT4	sodium 20	NT4	thallium 197	NT4	zinc 57
NT4	sodium 21	NT4	thallium 198	NT4	zinc 59

NT4	zinc 60	NT4	barium 129	NT4	cesium 116
NT4	zinc 61	NT4	barium 131	NT4	cesium 117
NT4	zinc 62	NT4	barium 133	NT4	cesium 118
NT4	zinc 63	NT4	berkelium 235	NT4	cesium 119
NT4	zinc 65	NT4	berkelium 236	NT4	cesium 120
NT4	zirconium 81	NT4	berkelium 237	NT4	cesium 121
NT4	zirconium 82	NT4	berkelium 238	NT4	cesium 122
NT4	zirconium 83	NT4	berkelium 239	NT4	cesium 123
NT4	zirconium 84	NT4	berkelium 240	NT4	cesium 124
NT4	zirconium 85	NT4	berkelium 242	NT4	cesium 125
NT4	zirconium 87	NT4	berkelium 243	NT4	cesium 126
NT4	zirconium 89	NT4	berkelium 244	NT4	cesium 127
NT3	electron capture radioisotopes	NT4	berkelium 245	NT4	cesium 128
NT4	actinium 214	NT4	berkelium 246	NT4	cesium 129
NT4	actinium 215	NT4	berkelium 248	NT4	cesium 130
NT4	actinium 222	NT4	beryllium 7	NT4	cesium 131
NT4	actinium 223	NT4	bismuth 190	NT4	cesium 132
NT4	actinium 224	NT4	bismuth 191	NT4	cesium 134
NT4	actinium 226	NT4	bismuth 192	NT4	chlorine 36
NT4	americium 231	NT4	bismuth 193	NT4	chromium 48
NT4	americium 232	NT4	bismuth 194	NT4	chromium 49
NT4	americium 233	NT4	bismuth 195	NT4	chromium 51
NT4	americium 234	NT4	bismuth 196	NT4	cobalt 49
NT4	americium 235	NT4	bismuth 197	NT4	cobalt 51
NT4	americium 236	NT4	bismuth 198	NT4	cobalt 55
NT4	americium 237	NT4	bismuth 199	NT4	cobalt 56
NT4	americium 238	NT4	bismuth 200	NT4	cobalt 57
NT4	americium 239	NT4	bismuth 201	NT4	cobalt 58
NT4	americium 240	NT4	bismuth 202	NT4	copper 55
NT4	americium 242	NT4	bismuth 203	NT4	copper 58
NT4	americium 244	NT4	bismuth 204	NT4	copper 60
NT4	antimony 103	NT4	bismuth 205	NT4	copper 61
NT4	antimony 107	NT4	bismuth 206	NT4	copper 62
NT4	antimony 109	NT4	bismuth 207	NT4	copper 64
NT4	antimony 110	NT4	bismuth 208	NT4	curium 232
NT4	antimony 111	NT4	bromine 67	NT4	curium 233
NT4	antimony 112	NT4	bromine 68	NT4	curium 234
NT4	antimony 113	NT4	bromine 71	NT4	curium 235
NT4	antimony 114	NT4	bromine 73	NT4	curium 238
NT4	antimony 115	NT4	bromine 74	NT4	curium 239
NT4	antimony 116	NT4	bromine 75	NT4	curium 241
NT4	antimony 117	NT4	bromine 76	NT4	dubnium 258
NT4	antimony 118	NT4	bromine 77	NT4	dysprosium 138
NT4	antimony 119	NT4	bromine 78	NT4	dysprosium 139
NT4	antimony 120	NT4	bromine 80	NT4	dysprosium 140
NT4	antimony 122	NT4	cadmium 100	NT4	dysprosium 141
NT4	argon 37	NT4	cadmium 101	NT4	dysprosium 143
NT4	arsenic 67	NT4	cadmium 102	NT4	dysprosium 144
NT4	arsenic 70	NT4	cadmium 103	NT4	dysprosium 145
NT4	arsenic 71	NT4	cadmium 104	NT4	dysprosium 147
NT4	arsenic 72	NT4	cadmium 105	NT4	dysprosium 148
NT4	arsenic 73	NT4	cadmium 107	NT4	dysprosium 149
NT4	arsenic 74	NT4	cadmium 109	NT4	dysprosium 150
NT4	astatine 195	NT4	cadmium 96	NT4	dysprosium 151
NT4	astatine 197	NT4	cadmium 97	NT4	dysprosium 152
NT4	astatine 199	NT4	calcium 41	NT4	dysprosium 153
NT4	astatine 200	NT4	californium 241	NT4	dysprosium 155
NT4	astatine 201	NT4	californium 243	NT4	dysprosium 157
NT4	astatine 202	NT4	californium 245	NT4	dysprosium 159
NT4	astatine 203	NT4	californium 247	NT4	einsteinium 240
NT4	astatine 204	NT4	cerium 119	NT4	einsteinium 241
NT4	astatine 205	NT4	cerium 120	NT4	einsteinium 242
NT4	astatine 206	NT4	cerium 121	NT4	einsteinium 244
NT4	astatine 207	NT4	cerium 122	NT4	einsteinium 245
NT4	astatine 208	NT4	cerium 123	NT4	einsteinium 246
NT4	astatine 209	NT4	cerium 126	NT4	einsteinium 247
NT4	astatine 210	NT4	cerium 127	NT4	einsteinium 248
NT4	astatine 211	NT4	cerium 128	NT4	einsteinium 249
NT4	barium 117	NT4	cerium 129	NT4	einsteinium 250
NT4	barium 119	NT4	cerium 130	NT4	einsteinium 251
NT4	barium 120	NT4	cerium 131	NT4	einsteinium 252
NT4	barium 121	NT4	cerium 132	NT4	einsteinium 254
NT4	barium 122	NT4	cerium 133	NT4	erbium 143
NT4	barium 123	NT4	cerium 134	NT4	erbium 144
NT4	barium 124	NT4	cerium 135	NT4	erbium 146
NT4	barium 125	NT4	cerium 137	NT4	erbium 147
NT4	barium 126	NT4	cerium 139	NT4	erbium 149
NT4	barium 127	NT4	cesium 114	NT4	erbium 150
NT4	barium 128	NT4	cesium 115	NT4	erbium 151

NT4	erbium 152	NT4	gold 192	NT4	iridium 182
NT4	erbium 153	NT4	gold 193	NT4	iridium 183
NT4	erbium 154	NT4	gold 194	NT4	iridium 184
NT4	erbium 155	NT4	gold 195	NT4	iridium 185
NT4	erbium 156	NT4	gold 196	NT4	iridium 186
NT4	erbium 157	NT4	hafnium 154	NT4	iridium 187
NT4	erbium 158	NT4	hafnium 155	NT4	iridium 188
NT4	erbium 159	NT4	hafnium 157	NT4	iridium 189
NT4	erbium 160	NT4	hafnium 158	NT4	iridium 190
NT4	erbium 161	NT4	hafnium 159	NT4	iridium 192
NT4	erbium 163	NT4	hafnium 160	NT4	iron 45
NT4	erbium 165	NT4	hafnium 162	NT4	iron 52
NT4	europium 132	NT4	hafnium 163	NT4	iron 53
NT4	europium 133	NT4	hafnium 166	NT4	iron 55
NT4	europium 139	NT4	hafnium 167	NT4	krypton 69
NT4	europium 140	NT4	hafnium 168	NT4	krypton 71
NT4	europium 141	NT4	hafnium 169	NT4	krypton 72
NT4	europium 142	NT4	hafnium 170	NT4	krypton 73
NT4	europium 143	NT4	hafnium 171	NT4	krypton 74
NT4	europium 144	NT4	hafnium 172	NT4	krypton 75
NT4	europium 145	NT4	hafnium 173	NT4	krypton 76
NT4	europium 146	NT4	hafnium 175	NT4	krypton 77
NT4	europium 147	NT4	holmium 142	NT4	krypton 79
NT4	europium 148	NT4	holmium 143	NT4	krypton 81
NT4	europium 149	NT4	holmium 145	NT4	lanthanum 117
NT4	europium 150	NT4	holmium 147	NT4	lanthanum 118
NT4	europium 152	NT4	holmium 149	NT4	lanthanum 119
NT4	europium 154	NT4	holmium 150	NT4	lanthanum 120
NT4	fermium 247	NT4	holmium 151	NT4	lanthanum 121
NT4	fermium 249	NT4	holmium 152	NT4	lanthanum 122
NT4	fermium 251	NT4	holmium 153	NT4	lanthanum 123
NT4	fermium 253	NT4	holmium 154	NT4	lanthanum 124
NT4	francium 204	NT4	holmium 155	NT4	lanthanum 125
NT4	francium 206	NT4	holmium 156	NT4	lanthanum 126
NT4	francium 207	NT4	holmium 157	NT4	lanthanum 127
NT4	francium 208	NT4	holmium 158	NT4	lanthanum 128
NT4	francium 209	NT4	holmium 159	NT4	lanthanum 129
NT4	francium 210	NT4	holmium 160	NT4	lanthanum 130
NT4	francium 211	NT4	holmium 161	NT4	lanthanum 131
NT4	francium 212	NT4	holmium 162	NT4	lanthanum 132
NT4	francium 213	NT4	holmium 163	NT4	lanthanum 133
NT4	gadolinium 135	NT4	holmium 164	NT4	lanthanum 134
NT4	gadolinium 141	NT4	indium 102	NT4	lanthanum 135
NT4	gadolinium 143	NT4	indium 103	NT4	lanthanum 136
NT4	gadolinium 144	NT4	indium 104	NT4	lanthanum 137
NT4	gadolinium 145	NT4	indium 105	NT4	lanthanum 138
NT4	gadolinium 146	NT4	indium 106	NT4	lawrencium 251
NT4	gadolinium 147	NT4	indium 107	NT4	lawrencium 254
NT4	gadolinium 149	NT4	indium 108	NT4	lawrencium 255
NT4	gadolinium 151	NT4	indium 109	NT4	lawrencium 256
NT4	gadolinium 153	NT4	indium 110	NT4	lead 186
NT4	gallium 62	NT4	indium 111	NT4	lead 187
NT4	gallium 63	NT4	indium 112	NT4	lead 188
NT4	gallium 64	NT4	indium 114	NT4	lead 189
NT4	gallium 65	NT4	indium 97	NT4	lead 190
NT4	gallium 66	NT4	indium 98	NT4	lead 191
NT4	gallium 67	NT4	indium 99	NT4	lead 192
NT4	gallium 68	NT4	iodine 110	NT4	lead 193
NT4	gallium 70	NT4	iodine 111	NT4	lead 194
NT4	germanium 63	NT4	iodine 112	NT4	lead 195
NT4	germanium 64	NT4	iodine 113	NT4	lead 196
NT4	germanium 65	NT4	iodine 114	NT4	lead 197
NT4	germanium 66	NT4	iodine 115	NT4	lead 198
NT4	germanium 67	NT4	iodine 116	NT4	lead 199
NT4	germanium 68	NT4	iodine 117	NT4	lead 200
NT4	germanium 69	NT4	iodine 118	NT4	lead 201
NT4	germanium 71	NT4	iodine 119	NT4	lead 202
NT4	gold 180	NT4	iodine 120	NT4	lead 203
NT4	gold 181	NT4	iodine 121	NT4	lead 205
NT4	gold 182	NT4	iodine 122	NT4	lutetium 150
NT4	gold 183	NT4	iodine 123	NT4	lutetium 153
NT4	gold 184	NT4	iodine 124	NT4	lutetium 154
NT4	gold 185	NT4	iodine 125	NT4	lutetium 155
NT4	gold 186	NT4	iodine 126	NT4	lutetium 156
NT4	gold 187	NT4	iodine 128	NT4	lutetium 157
NT4	gold 188	NT4	iridium 178	NT4	lutetium 158
NT4	gold 189	NT4	iridium 179	NT4	lutetium 159
NT4	gold 190	NT4	iridium 180	NT4	lutetium 160
NT4	gold 191	NT4	iridium 181	NT4	lutetium 161

NT4	lutetium 162	NT4	nickel 51	NT4	polonium 203
NT4	lutetium 163	NT4	nickel 56	NT4	polonium 204
NT4	lutetium 164	NT4	nickel 57	NT4	polonium 205
NT4	lutetium 165	NT4	nickel 59	NT4	polonium 206
NT4	lutetium 166	NT4	niobium 82	NT4	polonium 207
NT4	lutetium 167	NT4	niobium 84	NT4	polonium 208
NT4	lutetium 168	NT4	niobium 85	NT4	polonium 209
NT4	lutetium 169	NT4	niobium 86	NT4	potassium 40
NT4	lutetium 170	NT4	niobium 87	NT4	praseodymium 125
NT4	lutetium 171	NT4	niobium 88	NT4	praseodymium 127
NT4	lutetium 172	NT4	niobium 90	NT4	praseodymium 128
NT4	lutetium 173	NT4	niobium 91	NT4	praseodymium 129
NT4	lutetium 174	NT4	niobium 92	NT4	praseodymium 130
NT4	manganese 51	NT4	nitrogen 13	NT4	praseodymium 132
NT4	manganese 52	NT4	nobelium 253	NT4	praseodymium 133
NT4	manganese 53	NT4	nobelium 254	NT4	praseodymium 134
NT4	manganese 54	NT4	nobelium 255	NT4	praseodymium 135
NT4	mendelevium 245	NT4	nobelium 259	NT4	praseodymium 136
NT4	mendelevium 246	NT4	osmium 166	NT4	praseodymium 137
NT4	mendelevium 248	NT4	osmium 167	NT4	praseodymium 138
NT4	mendelevium 249	NT4	osmium 168	NT4	praseodymium 139
NT4	mendelevium 250	NT4	osmium 169	NT4	praseodymium 140
NT4	mendelevium 251	NT4	osmium 170	NT4	praseodymium 142
NT4	mendelevium 252	NT4	osmium 171	NT4	promethium 126
NT4	mendelevium 253	NT4	osmium 172	NT4	promethium 127
NT4	mendelevium 254	NT4	osmium 173	NT4	promethium 128
NT4	mendelevium 255	NT4	osmium 174	NT4	promethium 129
NT4	mendelevium 256	NT4	osmium 175	NT4	promethium 130
NT4	mendelevium 257	NT4	osmium 176	NT4	promethium 131
NT4	mendelevium 258	NT4	osmium 177	NT4	promethium 132
NT4	mercury 177	NT4	osmium 178	NT4	promethium 133
NT4	mercury 178	NT4	osmium 179	NT4	promethium 134
NT4	mercury 179	NT4	osmium 180	NT4	promethium 135
NT4	mercury 180	NT4	osmium 181	NT4	promethium 136
NT4	mercury 181	NT4	osmium 182	NT4	promethium 137
NT4	mercury 182	NT4	osmium 183	NT4	promethium 138
NT4	mercury 183	NT4	osmium 185	NT4	promethium 139
NT4	mercury 184	NT4	palladium 100	NT4	promethium 140
NT4	mercury 185	NT4	palladium 101	NT4	promethium 141
NT4	mercury 186	NT4	palladium 103	NT4	promethium 142
NT4	mercury 187	NT4	palladium 91	NT4	promethium 143
NT4	mercury 188	NT4	palladium 92	NT4	promethium 144
NT4	mercury 189	NT4	palladium 94	NT4	promethium 145
NT4	mercury 190	NT4	palladium 95	NT4	promethium 146
NT4	mercury 191	NT4	palladium 96	NT4	protactinium 226
NT4	mercury 192	NT4	palladium 97	NT4	protactinium 227
NT4	mercury 193	NT4	palladium 98	NT4	protactinium 228
NT4	mercury 194	NT4	palladium 99	NT4	protactinium 229
NT4	mercury 195	NT4	platinum 173	NT4	protactinium 230
NT4	mercury 197	NT4	platinum 174	NT4	radium 213
NT4	molybdenum 83	NT4	platinum 175	NT4	radium 214
NT4	molybdenum 87	NT4	platinum 176	NT4	radon 198
NT4	molybdenum 88	NT4	platinum 177	NT4	radon 200
NT4	molybdenum 89	NT4	platinum 178	NT4	radon 201
NT4	molybdenum 90	NT4	platinum 179	NT4	radon 202
NT4	molybdenum 91	NT4	platinum 180	NT4	radon 203
NT4	molybdenum 93	NT4	platinum 181	NT4	radon 204
NT4	neodymium 125	NT4	platinum 182	NT4	radon 205
NT4	neodymium 126	NT4	platinum 183	NT4	radon 206
NT4	neodymium 129	NT4	platinum 184	NT4	radon 207
NT4	neodymium 130	NT4	platinum 185	NT4	radon 208
NT4	neodymium 132	NT4	platinum 186	NT4	radon 209
NT4	neodymium 133	NT4	platinum 187	NT4	radon 210
NT4	neodymium 134	NT4	platinum 188	NT4	radon 211
NT4	neodymium 135	NT4	platinum 189	NT4	rhenium 163
NT4	neodymium 136	NT4	platinum 191	NT4	rhenium 164
NT4	neodymium 137	NT4	platinum 193	NT4	rhenium 165
NT4	neodymium 138	NT4	plutonium 232	NT4	rhenium 168
NT4	neodymium 139	NT4	plutonium 233	NT4	rhenium 170
NT4	neodymium 140	NT4	plutonium 234	NT4	rhenium 171
NT4	neodymium 141	NT4	plutonium 235	NT4	rhenium 172
NT4	neptunium 230	NT4	plutonium 237	NT4	rhenium 173
NT4	neptunium 231	NT4	polonium 196	NT4	rhenium 174
NT4	neptunium 232	NT4	polonium 197	NT4	rhenium 175
NT4	neptunium 233	NT4	polonium 198	NT4	rhenium 176
NT4	neptunium 234	NT4	polonium 199	NT4	rhenium 177
NT4	neptunium 235	NT4	polonium 200	NT4	rhenium 178
NT4	neptunium 236	NT4	polonium 201	NT4	rhenium 179
NT4	nickel 48	NT4	polonium 202	NT4	rhenium 180

NT4	rhenium 181	NT4	strontium 80	NT4	thallium 189
NT4	rhenium 182	NT4	strontium 81	NT4	thallium 190
NT4	rhenium 183	NT4	strontium 82	NT4	thallium 191
NT4	rhenium 184	NT4	strontium 83	NT4	thallium 192
NT4	rhenium 186	NT4	strontium 85	NT4	thallium 193
NT4	rhodium 100	NT4	strontium 87	NT4	thallium 194
NT4	rhodium 101	NT4	tantalum 158	NT4	thallium 195
NT4	rhodium 102	NT4	tantalum 159	NT4	thallium 196
NT4	rhodium 104	NT4	tantalum 160	NT4	thallium 197
NT4	rhodium 89	NT4	tantalum 165	NT4	thallium 198
NT4	rhodium 90	NT4	tantalum 166	NT4	thallium 199
NT4	rhodium 91	NT4	tantalum 167	NT4	thallium 200
NT4	rhodium 92	NT4	tantalum 168	NT4	thallium 201
NT4	rhodium 93	NT4	tantalum 169	NT4	thallium 202
NT4	rhodium 95	NT4	tantalum 170	NT4	thallium 204
NT4	rhodium 96	NT4	tantalum 171	NT4	thorium 225
NT4	rhodium 97	NT4	tantalum 172	NT4	thulium 148
NT4	rhodium 98	NT4	tantalum 173	NT4	thulium 152
NT4	rhodium 99	NT4	tantalum 174	NT4	thulium 153
NT4	rubidium 76	NT4	tantalum 175	NT4	thulium 154
NT4	rubidium 77	NT4	tantalum 176	NT4	thulium 155
NT4	rubidium 78	NT4	tantalum 177	NT4	thulium 156
NT4	rubidium 79	NT4	tantalum 178	NT4	thulium 157
NT4	rubidium 81	NT4	tantalum 179	NT4	thulium 158
NT4	rubidium 82	NT4	tantalum 180	NT4	thulium 159
NT4	rubidium 83	NT4	technetium 85	NT4	thulium 160
NT4	rubidium 84	NT4	technetium 86	NT4	thulium 161
NT4	rubidium 86	NT4	technetium 87	NT4	thulium 162
NT4	ruthenium 87	NT4	technetium 90	NT4	thulium 163
NT4	ruthenium 90	NT4	technetium 91	NT4	thulium 164
NT4	ruthenium 91	NT4	technetium 92	NT4	thulium 165
NT4	ruthenium 92	NT4	technetium 93	NT4	thulium 166
NT4	ruthenium 93	NT4	technetium 94	NT4	thulium 167
NT4	ruthenium 94	NT4	technetium 95	NT4	thulium 168
NT4	ruthenium 95	NT4	technetium 96	NT4	thulium 170
NT4	ruthenium 97	NT4	technetium 97	NT4	tin 100
NT4	samarium 129	NT4	tellurium 107	NT4	tin 102
NT4	samarium 130	NT4	tellurium 108	NT4	tin 106
NT4	samarium 132	NT4	tellurium 109	NT4	tin 107
NT4	samarium 133	NT4	tellurium 110	NT4	tin 108
NT4	samarium 134	NT4	tellurium 111	NT4	tin 109
NT4	samarium 135	NT4	tellurium 112	NT4	tin 110
NT4	samarium 136	NT4	tellurium 113	NT4	tin 111
NT4	samarium 137	NT4	tellurium 114	NT4	tin 113
NT4	samarium 138	NT4	tellurium 115	NT4	tin 99
NT4	samarium 139	NT4	tellurium 116	NT4	titanium 44
NT4	samarium 140	NT4	tellurium 117	NT4	titanium 45
NT4	samarium 141	NT4	tellurium 118	NT4	tungsten 161
NT4	samarium 142	NT4	tellurium 119	NT4	tungsten 162
NT4	samarium 143	NT4	tellurium 121	NT4	tungsten 163
NT4	samarium 145	NT4	tellurium 123	NT4	tungsten 164
NT4	scandium 44	NT4	terbium 136	NT4	tungsten 165
NT4	selenium 69	NT4	terbium 137	NT4	tungsten 166
NT4	selenium 70	NT4	terbium 138	NT4	tungsten 168
NT4	selenium 71	NT4	terbium 139	NT4	tungsten 169
NT4	selenium 72	NT4	terbium 141	NT4	tungsten 170
NT4	selenium 73	NT4	terbium 142	NT4	tungsten 171
NT4	selenium 75	NT4	terbium 143	NT4	tungsten 172
NT4	silver 100	NT4	terbium 144	NT4	tungsten 173
NT4	silver 101	NT4	terbium 146	NT4	tungsten 174
NT4	silver 102	NT4	terbium 147	NT4	tungsten 175
NT4	silver 103	NT4	terbium 148	NT4	tungsten 176
NT4	silver 104	NT4	terbium 149	NT4	tungsten 177
NT4	silver 105	NT4	terbium 150	NT4	tungsten 178
NT4	silver 106	NT4	terbium 151	NT4	tungsten 179
NT4	silver 108	NT4	terbium 152	NT4	tungsten 181
NT4	silver 110	NT4	terbium 153	NT4	uranium 228
NT4	silver 93	NT4	terbium 154	NT4	uranium 229
NT4	silver 95	NT4	terbium 155	NT4	uranium 231
NT4	silver 96	NT4	terbium 156	NT4	vanadium 42
NT4	silver 97	NT4	terbium 157	NT4	vanadium 45
NT4	silver 98	NT4	terbium 158	NT4	vanadium 47
NT4	silver 99	NT4	thallium 178	NT4	vanadium 48
NT4	sodium 20	NT4	thallium 180	NT4	vanadium 49
NT4	strontium 73	NT4	thallium 181	NT4	vanadium 50
NT4	strontium 74	NT4	thallium 184	NT4	xenon 110
NT4	strontium 76	NT4	thallium 186	NT4	xenon 111
NT4	strontium 78	NT4	thallium 187	NT4	xenon 112
NT4	strontium 79	NT4	thallium 188	NT4	xenon 113

NT4	xenon 114	NT3	berkelium 249	NT3	iridium 193
NT4	xenon 115	NT3	beryllium 7	NT3	iridium 194
NT4	xenon 116	NT3	bismuth 205	NT3	iron 59
NT4	xenon 117	NT3	bismuth 206	NT3	krypton 79
NT4	xenon 118	NT3	bismuth 210	NT3	lanthanum 140
NT4	xenon 119	NT3	bromine 77	NT3	lead 203
NT4	xenon 120	NT3	bromine 82	NT3	lutetium 169
NT4	xenon 121	NT3	cadmium 115	NT3	lutetium 170
NT4	xenon 122	NT3	calcium 45	NT3	lutetium 171
NT4	xenon 123	NT3	calcium 47	NT3	lutetium 172
NT4	xenon 125	NT3	californium 246	NT3	lutetium 174
NT4	xenon 127	NT3	californium 248	NT3	lutetium 177
NT4	ytterbium 148	NT3	californium 253	NT3	manganese 52
NT4	ytterbium 149	NT3	californium 254	NT3	manganese 54
NT4	ytterbium 153	NT3	cerium 134	NT3	mendelevium 258
NT4	ytterbium 155	NT3	cerium 137	NT3	mercury 195
NT4	ytterbium 156	NT3	cerium 139	NT3	mercury 197
NT4	ytterbium 157	NT3	cerium 141	NT3	mercury 203
NT4	ytterbium 158	NT3	cerium 143	NT3	molybdenum 99
NT4	ytterbium 159	NT3	cerium 144	NT3	neodymium 140
NT4	ytterbium 160	NT3	cesium 129	NT3	neodymium 147
NT4	ytterbium 161	NT3	cesium 131	NT3	neptunium 234
NT4	ytterbium 162	NT3	cesium 132	NT3	neptunium 238
NT4	ytterbium 163	NT3	cesium 136	NT3	neptunium 239
NT4	ytterbium 164	NT3	chromium 51	NT3	nickel 56
NT4	ytterbium 165	NT3	cobalt 56	NT3	nickel 57
NT4	ytterbium 166	NT3	cobalt 57	NT3	nickel 66
NT4	ytterbium 167	NT3	cobalt 58	NT3	niobium 91
NT4	ytterbium 169	NT3	copper 67	NT3	niobium 92
NT4	yttrium 78	NT3	curium 240	NT3	niobium 95
NT4	yttrium 79	NT3	curium 241	NT3	osmium 185
NT4	yttrium 80	NT3	curium 242	NT3	osmium 191
NT4	yttrium 81	NT3	dubnium 268	NT3	osmium 193
NT4	yttrium 83	NT3	dysprosium 159	NT3	palladium 100
NT4	yttrium 84	NT3	dysprosium 166	NT3	palladium 103
NT4	yttrium 85	NT3	einsteinium 251	NT3	phosphorus 32
NT4	yttrium 86	NT3	einsteinium 253	NT3	phosphorus 33
NT4	yttrium 87	NT3	einsteinium 254	NT3	platinum 188
NT4	yttrium 88	NT3	einsteinium 255	NT3	platinum 191
NT4	zinc 55	NT3	erbium 160	NT3	platinum 193
NT4	zinc 56	NT3	erbium 169	NT3	platinum 195
NT4	zinc 60	NT3	erbium 172	NT3	plutonium 237
NT4	zinc 61	NT3	europium 145	NT3	plutonium 246
NT4	zinc 62	NT3	europium 146	NT3	plutonium 247
NT4	zinc 63	NT3	europium 147	NT3	polonium 206
NT4	zinc 65	NT3	europium 148	NT3	polonium 210
NT4	zirconium 78	NT3	europium 149	NT3	praseodymium 143
NT4	zirconium 79	NT3	europium 156	NT3	promethium 143
NT4	zirconium 84	NT3	fermium 252	NT3	promethium 148
NT4	zirconium 85	NT3	fermium 253	NT3	promethium 149
NT4	zirconium 86	NT3	fermium 257	NT3	promethium 151
NT4	zirconium 87	NT3	gadolinium 146	NT3	protactinium 229
NT4	zirconium 88	NT3	gadolinium 147	NT3	protactinium 230
NT4	zirconium 89	NT3	gadolinium 149	NT3	protactinium 232
NT2	bone seekers	NT3	gadolinium 151	NT3	protactinium 233
NT2	days living radioisotopes	NT3	gadolinium 153	NT3	radium 223
NT3	actinium 225	NT3	gallium 67	NT3	radium 224
NT3	actinium 226	NT3	germanium 68	NT3	radium 225
NT3	americium 240	NT3	germanium 69	NT3	radon 222
NT3	antimony 119	NT3	germanium 71	NT3	rhenium 182
NT3	antimony 120	NT3	gold 194	NT3	rhenium 183
NT3	antimony 122	NT3	gold 195	NT3	rhenium 184
NT3	antimony 124	NT3	gold 196	NT3	rhenium 186
NT3	antimony 126	NT3	gold 198	NT3	rhenium 189
NT3	antimony 127	NT3	gold 199	NT3	rhodium 101
NT3	argon 37	NT3	hafnium 175	NT3	rhodium 102
NT3	arsenic 71	NT3	hafnium 179	NT3	rhodium 105
NT3	arsenic 72	NT3	hafnium 181	NT3	rhodium 99
NT3	arsenic 73	NT3	holmium 166	NT3	rubidium 83
NT3	arsenic 74	NT3	indium 111	NT3	rubidium 84
NT3	arsenic 76	NT3	indium 114	NT3	rubidium 86
NT3	arsenic 77	NT3	iodine 124	NT3	ruthenium 103
NT3	barium 128	NT3	iodine 125	NT3	ruthenium 97
NT3	barium 131	NT3	iodine 126	NT3	samarium 145
NT3	barium 133	NT3	iodine 131	NT3	samarium 153
NT3	barium 135	NT3	iridium 188	NT3	scandium 44
NT3	barium 140	NT3	iridium 189	NT3	scandium 46
NT3	berkelium 245	NT3	iridium 190	NT3	scandium 47
NT3	berkelium 246	NT3	iridium 192	NT3	scandium 48

NT3	selenium 72	NT3	carbon 14 decay radioisotopes	NT3	dysprosium 153
NT3	selenium 75	NT4	radium 222	NT3	dysprosium 155
NT3	silver 105	NT4	radium 223	NT3	dysprosium 157
NT3	silver 106	NT4	radium 224	NT3	dysprosium 165
NT3	silver 110	NT4	radium 226	NT3	einsteinium 249
NT3	silver 111	NT3	magnesium 28 decay radioisotopes	NT3	einsteinium 250
NT3	strontium 82	NT4	plutonium 236	NT3	einsteinium 256
NT3	strontium 83	NT4	uranium 234	NT3	erbium 158
NT3	strontium 85	NT3	neon 24 decay radioisotopes	NT3	erbium 161
NT3	strontium 89	NT4	protactinium 231	NT3	erbium 163
NT3	sulfur 35	NT4	thorium 230	NT3	erbium 165
NT3	tantalum 177	NT4	uranium 232	NT3	erbium 171
NT3	tantalum 182	NT4	uranium 233	NT3	europium 150
NT3	tantalum 183	NT4	uranium 234	NT3	europium 152
NT3	technetium 95	NT3	silicon 32 decay radioisotopes	NT3	europium 157
NT3	technetium 96	NT4	plutonium 238	NT3	fermium 251
NT3	technetium 97	NT2	hours living radioisotopes	NT3	fermium 254
NT3	tellurium 118	NT3	actinium 224	NT3	fermium 255
NT3	tellurium 119	NT3	actinium 228	NT3	fermium 256
NT3	tellurium 121	NT3	actinium 229	NT3	fluorine 18
NT3	tellurium 123	NT3	americium 237	NT3	gadolinium 159
NT3	tellurium 125	NT3	americium 238	NT3	gallium 66
NT3	tellurium 127	NT3	americium 239	NT3	gallium 68
NT3	tellurium 129	NT3	americium 242	NT3	gallium 72
NT3	tellurium 131	NT3	americium 244	NT3	gallium 73
NT3	tellurium 132	NT3	americium 245	NT3	germanium 66
NT3	terbium 153	NT3	antimony 116	NT3	germanium 75
NT3	terbium 155	NT3	antimony 117	NT3	germanium 77
NT3	terbium 156	NT3	antimony 118	NT3	germanium 78
NT3	terbium 160	NT3	antimony 128	NT3	gold 191
NT3	terbium 161	NT3	antimony 129	NT3	gold 192
NT3	thallium 200	NT3	argon 41	NT3	gold 193
NT3	thallium 201	NT3	arsenic 78	NT3	gold 196
NT3	thallium 202	NT3	astatine 207	NT3	gold 200
NT3	thorium 227	NT3	astatine 208	NT3	hafnium 170
NT3	thorium 231	NT3	astatine 209	NT3	hafnium 171
NT3	thorium 234	NT3	astatine 210	NT3	hafnium 173
NT3	thulium 165	NT3	astatine 211	NT3	hafnium 180
NT3	thulium 167	NT3	barium 126	NT3	hafnium 182
NT3	thulium 168	NT3	barium 129	NT3	hafnium 183
NT3	thulium 170	NT3	barium 139	NT3	hafnium 184
NT3	thulium 172	NT3	berkelium 243	NT3	hafnium 276
NT3	tin 113	NT3	berkelium 244	NT3	holmium 160
NT3	tin 117	NT3	berkelium 248	NT3	holmium 161
NT3	tin 119	NT3	berkelium 250	NT3	holmium 162
NT3	tin 121	NT3	bismuth 201	NT3	holmium 167
NT3	tin 123	NT3	bismuth 202	NT3	indium 109
NT3	tin 125	NT3	bismuth 203	NT3	indium 110
NT3	tungsten 178	NT3	bismuth 204	NT3	indium 113
NT3	tungsten 181	NT3	bismuth 212	NT3	indium 115
NT3	tungsten 185	NT3	bohrium 273	NT3	indium 117
NT3	tungsten 187	NT3	bohrium 274	NT3	iodine 120
NT3	tungsten 188	NT3	bromine 75	NT3	iodine 121
NT3	uranium 230	NT3	bromine 76	NT3	iodine 123
NT3	uranium 231	NT3	bromine 80	NT3	iodine 130
NT3	uranium 237	NT3	bromine 83	NT3	iodine 132
NT3	vanadium 48	NT3	cadmium 107	NT3	iodine 133
NT3	vanadium 49	NT3	cadmium 117	NT3	iodine 135
NT3	xenon 127	NT3	californium 247	NT3	iridium 184
NT3	xenon 129	NT3	californium 255	NT3	iridium 185
NT3	xenon 131	NT3	cerium 132	NT3	iridium 186
NT3	xenon 133	NT3	cerium 133	NT3	iridium 187
NT3	ytterbium 166	NT3	cerium 135	NT3	iridium 190
NT3	ytterbium 169	NT3	cerium 137	NT3	iridium 194
NT3	ytterbium 175	NT3	cesium 127	NT3	iridium 195
NT3	yttrium 87	NT3	cesium 134	NT3	iridium 196
NT3	yttrium 88	NT3	chromium 48	NT3	iron 52
NT3	yttrium 90	NT3	cobalt 55	NT3	krypton 76
NT3	yttrium 91	NT3	cobalt 58	NT3	krypton 77
NT3	zinc 65	NT3	cobalt 61	NT3	krypton 83
NT3	zinc 72	NT3	copper 61	NT3	krypton 85
NT3	zirconium 88	NT3	copper 64	NT3	krypton 87
NT3	zirconium 89	NT3	curium 238	NT3	krypton 88
NT3	zirconium 95	NT3	curium 239	NT3	lanthanum 132
NT2	delayed neutron precursors	NT3	curium 249	NT3	lanthanum 133
NT2	delayed proton precursors	NT3	dubnium 267	NT3	lanthanum 135
NT2	heavy ion decay radioisotopes	NT3	dubnium 269	NT3	lanthanum 141
NT3	carbon 12 decay radioisotopes	NT3	dysprosium 152	NT3	lanthanum 142
NT4	barium 114			NT3	lead 198

NT3	lead 199	NT3	scandium 43	NT3	barium 131
NT3	lead 200	NT3	scandium 44	NT3	barium 133
NT3	lead 201	NT3	selenium 73	NT3	barium 135
NT3	lead 202	NT3	silicon 31	NT3	berkelium 243
NT3	lead 204	NT3	silver 103	NT3	bromine 77
NT3	lead 209	NT3	silver 104	NT3	bromine 80
NT3	lead 212	NT3	silver 112	NT3	bromine 82
NT3	lutetium 176	NT3	silver 113	NT3	cadmium 111
NT3	lutetium 179	NT3	sodium 24	NT3	cadmium 113
NT3	magnesium 28	NT3	strontium 80	NT3	californium 247
NT3	manganese 56	NT3	strontium 85	NT3	californium 250
NT3	mendelevium 256	NT3	strontium 87	NT3	cerium 133
NT3	mendelevium 257	NT3	strontium 91	NT3	cerium 137
NT3	mendelevium 259	NT3	strontium 92	NT3	cesium 123
NT3	mercury 192	NT3	sulfur 38	NT3	cesium 134
NT3	mercury 193	NT3	tantalum 173	NT3	cesium 138
NT3	mercury 195	NT3	tantalum 174	NT3	cobalt 58
NT3	mercury 197	NT3	tantalum 175	NT3	cobalt 60
NT3	molybdenum 90	NT3	tantalum 176	NT3	dysprosium 159
NT3	molybdenum 93	NT3	tantalum 178	NT3	einsteinium 254
NT3	neodymium 138	NT3	tantalum 180	NT3	erbium 156
NT3	neodymium 139	NT3	tantalum 184	NT3	erbium 169
NT3	neodymium 141	NT3	technetium 93	NT3	germanium 73
NT3	neodymium 149	NT3	technetium 94	NT3	germanium 75
NT3	neptunium 236	NT3	technetium 95	NT3	gold 191
NT3	neptunium 240	NT3	technetium 99	NT3	gold 193
NT3	nickel 65	NT3	tellurium 116	NT3	gold 195
NT3	niobium 89	NT3	tellurium 117	NT3	gold 196
NT3	niobium 90	NT3	tellurium 119	NT3	gold 197
NT3	niobium 96	NT3	tellurium 127	NT3	hafnium 178
NT3	niobium 97	NT3	tellurium 129	NT3	hafnium 179
NT3	osmium 181	NT3	terbium 147	NT3	hafnium 180
NT3	osmium 182	NT3	terbium 148	NT3	holmium 158
NT3	osmium 183	NT3	terbium 149	NT3	holmium 160
NT3	osmium 189	NT3	terbium 150	NT3	holmium 164
NT3	osmium 191	NT3	terbium 151	NT3	indium 112
NT3	palladium 101	NT3	terbium 152	NT3	indium 114
NT3	palladium 109	NT3	terbium 154	NT3	indium 115
NT3	palladium 111	NT3	terbium 156	NT3	indium 116
NT3	palladium 112	NT3	thallium 195	NT3	indium 121
NT3	platinum 185	NT3	thallium 196	NT3	iodine 125
NT3	platinum 186	NT3	thallium 197	NT3	iodine 129
NT3	platinum 187	NT3	thallium 198	NT3	iodine 130
NT3	platinum 189	NT3	thallium 199	NT3	iodine 132
NT3	platinum 197	NT3	thulium 163	NT3	iodine 133
NT3	platinum 200	NT3	thulium 166	NT3	iridium 190
NT3	plutonium 234	NT3	thulium 173	NT3	iridium 191
NT3	plutonium 243	NT3	tin 110	NT3	iridium 192
NT3	plutonium 245	NT3	tin 127	NT3	iridium 193
NT3	polonium 204	NT3	titanium 45	NT3	krypton 79
NT3	polonium 205	NT3	tungsten 176	NT3	krypton 83
NT3	polonium 207	NT3	tungsten 177	NT3	lead 199
NT3	potassium 42	NT3	uranium 240	NT3	lead 202
NT3	potassium 43	NT3	xenon 122	NT3	lutetium 169
NT3	praseodymium 137	NT3	xenon 123	NT3	lutetium 170
NT3	praseodymium 138	NT3	xenon 125	NT3	lutetium 171
NT3	praseodymium 139	NT3	xenon 135	NT3	lutetium 172
NT3	praseodymium 142	NT3	ytterbium 164	NT3	lutetium 176
NT3	praseodymium 145	NT3	ytterbium 177	NT3	mercury 193
NT3	promethium 150	NT3	ytterbium 178	NT3	mercury 195
NT3	protactinium 228	NT3	yttrium 85	NT3	mercury 197
NT3	protactinium 234	NT3	yttrium 86	NT3	mercury 199
NT3	radium 230	NT3	yttrium 87	NT3	molybdenum 93
NT3	radon 210	NT3	yttrium 90	NT3	neodymium 147
NT3	radon 211	NT3	yttrium 92	NT3	neptunium 236
NT3	radon 224	NT3	yttrium 93	NT3	niobium 91
NT3	rhenium 181	NT3	zinc 62	NT3	niobium 93
NT3	rhenium 182	NT3	zinc 69	NT3	niobium 94
NT3	rhenium 188	NT3	zinc 71	NT3	osmium 180
NT3	rhenium 190	NT3	zirconium 86	NT3	osmium 189
NT3	rhodium 100	NT3	zirconium 87	NT3	osmium 190
NT3	rhodium 106	NT3	zirconium 97	NT3	osmium 191
NT3	rhodium 99	NT2	internal conversion radioisotopes	NT3	osmium 194
NT3	rubidium 81	NT3	actinium 227	NT3	palladium 112
NT3	rubidium 82	NT3	antimony 119	NT3	platinum 193
NT3	ruthenium 105	NT3	antimony 122	NT3	platinum 195
NT3	ruthenium 95	NT3	antimony 124	NT3	platinum 197
NT3	samarium 142	NT3	antimony 126	NT3	platinum 199
NT3	samarium 156	NT3	astatine 212	NT3	plutonium 235



<b>NT3</b>	plutonium 237	<b>NT3</b>	arsenic 75	<b>NT3</b>	hafnium 177
<b>NT3</b>	polonium 199	<b>NT3</b>	astatine 202	<b>NT3</b>	hafnium 178
<b>NT3</b>	polonium 201	<b>NT3</b>	barium 127	<b>NT3</b>	hafnium 179
<b>NT3</b>	polonium 202	<b>NT3</b>	barium 131	<b>NT3</b>	hafnium 180
<b>NT3</b>	polonium 203	<b>NT3</b>	barium 133	<b>NT3</b>	hafnium 182
<b>NT3</b>	polonium 205	<b>NT3</b>	barium 135	<b>NT3</b>	holmium 148
<b>NT3</b>	polonium 206	<b>NT3</b>	barium 136	<b>NT3</b>	holmium 156
<b>NT3</b>	polonium 207	<b>NT3</b>	barium 137	<b>NT3</b>	holmium 158
<b>NT3</b>	praseodymium 142	<b>NT3</b>	barium 138	<b>NT3</b>	holmium 159
<b>NT3</b>	promethium 145	<b>NT3</b>	bismuth 184	<b>NT3</b>	holmium 160
<b>NT3</b>	radium 213	<b>NT3</b>	bismuth 187	<b>NT3</b>	holmium 161
<b>NT3</b>	radium 225	<b>NT3</b>	bismuth 198	<b>NT3</b>	holmium 162
<b>NT3</b>	radium 228	<b>NT3</b>	bismuth 201	<b>NT3</b>	holmium 163
<b>NT3</b>	radium 230	<b>NT3</b>	bismuth 208	<b>NT3</b>	holmium 164
<b>NT3</b>	radon 210	<b>NT3</b>	bismuth 211	<b>NT3</b>	holmium 168
<b>NT3</b>	radon 211	<b>NT3</b>	bohrium 266	<b>NT3</b>	indium 104
<b>NT3</b>	rhenium 183	<b>NT3</b>	bohrium 267	<b>NT3</b>	indium 107
<b>NT3</b>	rhenium 184	<b>NT3</b>	bohrium 272	<b>NT3</b>	indium 109
<b>NT3</b>	rhenium 188	<b>NT3</b>	bromine 76	<b>NT3</b>	indium 111
<b>NT3</b>	rhenium 189	<b>NT3</b>	bromine 77	<b>NT3</b>	indium 112
<b>NT3</b>	rhodium 100	<b>NT3</b>	bromine 79	<b>NT3</b>	indium 113
<b>NT3</b>	rhodium 101	<b>NT3</b>	bromine 80	<b>NT3</b>	indium 114
<b>NT3</b>	rhodium 103	<b>NT3</b>	bromine 82	<b>NT3</b>	indium 115
<b>NT3</b>	rhodium 105	<b>NT3</b>	bromine 83	<b>NT3</b>	indium 116
<b>NT3</b>	rhodium 96	<b>NT3</b>	cadmium 100	<b>NT3</b>	indium 117
<b>NT3</b>	rubidium 81	<b>NT3</b>	cadmium 111	<b>NT3</b>	indium 118
<b>NT3</b>	samarium 145	<b>NT3</b>	cadmium 113	<b>NT3</b>	indium 119
<b>NT3</b>	samarium 151	<b>NT3</b>	cerium 135	<b>NT3</b>	indium 121
<b>NT3</b>	scandium 46	<b>NT3</b>	cerium 137	<b>NT3</b>	iodine 116
<b>NT3</b>	selenium 79	<b>NT3</b>	cerium 138	<b>NT3</b>	iodine 121
<b>NT3</b>	selenium 81	<b>NT3</b>	cerium 139	<b>NT3</b>	iodine 122
<b>NT3</b>	silver 103	<b>NT3</b>	cesium 121	<b>NT3</b>	iodine 130
<b>NT3</b>	silver 105	<b>NT3</b>	cesium 123	<b>NT3</b>	iodine 132
<b>NT3</b>	silver 107	<b>NT3</b>	cesium 134	<b>NT3</b>	iodine 133
<b>NT3</b>	silver 109	<b>NT3</b>	cesium 135	<b>NT3</b>	iodine 134
<b>NT3</b>	silver 111	<b>NT3</b>	cesium 136	<b>NT3</b>	iridium 190
<b>NT3</b>	silver 99	<b>NT3</b>	cesium 138	<b>NT3</b>	iridium 191
<b>NT3</b>	tantalum 182	<b>NT3</b>	chlorine 34	<b>NT3</b>	iridium 192
<b>NT3</b>	technetium 96	<b>NT3</b>	chlorine 38	<b>NT3</b>	iridium 193
<b>NT3</b>	technetium 97	<b>NT3</b>	cobalt 58	<b>NT3</b>	iridium 194
<b>NT3</b>	technetium 99	<b>NT3</b>	cobalt 60	<b>NT3</b>	iron 53
<b>NT3</b>	tellurium 121	<b>NT3</b>	copper 68	<b>NT3</b>	krypton 79
<b>NT3</b>	tellurium 123	<b>NT3</b>	darmstadtium 271	<b>NT3</b>	krypton 81
<b>NT3</b>	terbium 151	<b>NT3</b>	dubnium 267	<b>NT3</b>	krypton 83
<b>NT3</b>	terbium 157	<b>NT3</b>	dysprosium 140	<b>NT3</b>	krypton 84
<b>NT3</b>	terbium 158	<b>NT3</b>	dysprosium 147	<b>NT3</b>	krypton 85
<b>NT3</b>	thallium 198	<b>NT3</b>	dysprosium 149	<b>NT3</b>	krypton 86
<b>NT3</b>	thorium 234	<b>NT3</b>	dysprosium 165	<b>NT3</b>	lanthanum 132
<b>NT3</b>	thulium 159	<b>NT3</b>	erbium 151	<b>NT3</b>	lead 194
<b>NT3</b>	thulium 161	<b>NT3</b>	erbium 167	<b>NT3</b>	lead 197
<b>NT3</b>	tin 113	<b>NT3</b>	europium 141	<b>NT3</b>	lead 199
<b>NT3</b>	tin 119	<b>NT3</b>	europium 152	<b>NT3</b>	lead 200
<b>NT3</b>	tin 121	<b>NT3</b>	europium 154	<b>NT3</b>	lead 201
<b>NT3</b>	tungsten 176	<b>NT3</b>	fermium 250	<b>NT3</b>	lead 202
<b>NT3</b>	tungsten 181	<b>NT3</b>	fermium 256	<b>NT3</b>	lead 203
<b>NT3</b>	tungsten 185	<b>NT3</b>	fluorine 18	<b>NT3</b>	lead 204
<b>NT3</b>	uranium 230	<b>NT3</b>	francium 206	<b>NT3</b>	lead 205
<b>NT3</b>	uranium 235	<b>NT3</b>	francium 211	<b>NT3</b>	lead 207
<b>NT3</b>	uranium 240	<b>NT3</b>	francium 212	<b>NT3</b>	lutetium 153
<b>NT3</b>	xenon 125	<b>NT3</b>	francium 213	<b>NT3</b>	lutetium 154
<b>NT3</b>	xenon 129	<b>NT3</b>	francium 218	<b>NT3</b>	lutetium 161
<b>NT3</b>	xenon 131	<b>NT3</b>	gadolinium 141	<b>NT3</b>	lutetium 169
<b>NT3</b>	xenon 133	<b>NT3</b>	gadolinium 145	<b>NT3</b>	lutetium 170
<b>NT3</b>	ytterbium 164	<b>NT3</b>	gadolinium 147	<b>NT3</b>	lutetium 171
<b>NT3</b>	ytterbium 165	<b>NT3</b>	gadolinium 148	<b>NT3</b>	lutetium 172
<b>NT3</b>	ytterbium 166	<b>NT3</b>	gallium 72	<b>NT3</b>	lutetium 174
<b>NT3</b>	ytterbium 177	<b>NT3</b>	gallium 74	<b>NT3</b>	lutetium 177
<b>NT3</b>	yttrium 86	<b>NT3</b>	germanium 71	<b>NT3</b>	manganese 60
<b>NT2</b>	isomeric transition isotopes	<b>NT3</b>	germanium 73	<b>NT3</b>	mercury 193
<b>NT3</b>	actinium 222	<b>NT3</b>	germanium 75	<b>NT3</b>	mercury 195
<b>NT3</b>	aluminium 24	<b>NT3</b>	germanium 77	<b>NT3</b>	mercury 197
<b>NT3</b>	americium 242	<b>NT3</b>	gold 191	<b>NT3</b>	mercury 199
<b>NT3</b>	antimony 113	<b>NT3</b>	gold 193	<b>NT3</b>	mercury 201
<b>NT3</b>	antimony 117	<b>NT3</b>	gold 195	<b>NT3</b>	molybdenum 89
<b>NT3</b>	antimony 122	<b>NT3</b>	gold 196	<b>NT3</b>	molybdenum 91
<b>NT3</b>	antimony 124	<b>NT3</b>	gold 197	<b>NT3</b>	molybdenum 92
<b>NT3</b>	antimony 126	<b>NT3</b>	gold 198	<b>NT3</b>	molybdenum 93
<b>NT3</b>	antimony 131	<b>NT3</b>	gold 200	<b>NT3</b>	molybdenum 94
		<b>NT3</b>	hafnium 156	<b>NT3</b>	neodymium 137

NT3	neodymium 139	NT3	silver 109	NT3	yttrium 91
NT3	neodymium 141	NT3	silver 110	NT3	yttrium 93
NT3	neptunium 237	NT3	silver 111	NT3	yttrium 97
NT3	niobium 86	NT3	silver 113	NT3	zinc 69
NT3	niobium 90	NT3	silver 116	NT3	zirconium 85
NT3	niobium 91	NT3	silver 118	NT3	zirconium 87
NT3	niobium 93	NT3	silver 120	NT3	zirconium 89
NT3	niobium 94	NT3	silver 99	NT3	zirconium 90
NT3	niobium 95	NT3	sodium 22	NT2	microseconds living radioisotopes
NT3	niobium 97	NT3	sodium 24	NT3	actinium 216
NT3	nobelium 254	NT3	strontium 83	NT3	actinium 218
NT3	osmium 182	NT3	strontium 85	NT3	actinium 219
NT3	osmium 183	NT3	strontium 87	NT3	astatine 215
NT3	osmium 189	NT3	tantalum 182	NT3	astatine 216
NT3	osmium 190	NT3	technetium 102	NT3	bismuth 185
NT3	osmium 191	NT3	technetium 86	NT3	bismuth 187
NT3	osmium 192	NT3	technetium 93	NT3	bohrium 260
NT3	palladium 107	NT3	technetium 95	NT3	bohrium 263
NT3	palladium 109	NT3	technetium 96	NT3	cesium 112
NT3	palladium 111	NT3	technetium 97	NT3	cesium 113
NT3	palladium 117	NT3	technetium 99	NT3	chromium 64
NT3	platinum 184	NT3	tellurium 121	NT3	darmstadtium 267
NT3	platinum 193	NT3	tellurium 123	NT3	darmstadtium 269
NT3	platinum 195	NT3	tellurium 125	NT3	darmstadtium 273
NT3	platinum 197	NT3	tellurium 127	NT3	dysprosium 140
NT3	platinum 199	NT3	tellurium 129	NT3	element 112 277
NT3	plutonium 237	NT3	tellurium 131	NT3	element 113 278
NT3	polonium 201	NT3	tellurium 133	NT3	element 114 285
NT3	polonium 203	NT3	terbium 142	NT3	europium 130
NT3	polonium 207	NT3	terbium 144	NT3	fermium 242
NT3	polonium 210	NT3	terbium 146	NT3	fermium 258
NT3	potassium 40	NT3	terbium 151	NT3	francium 212
NT3	praseodymium 142	NT3	terbium 152	NT3	francium 213
NT3	praseodymium 144	NT3	terbium 154	NT3	francium 217
NT3	promethium 148	NT3	terbium 156	NT3	gold 170
NT3	protactinium 234	NT3	terbium 158	NT3	gold 171
NT3	radium 213	NT3	thallium 179	NT3	hafnium 156
NT3	radon 197	NT3	thallium 185	NT3	hassium 264
NT3	radon 210	NT3	thallium 186	NT3	hassium 265
NT3	radon 211	NT3	thallium 187	NT3	iodine 109
NT3	rhenium 167	NT3	thallium 193	NT3	iodine 116
NT3	rhenium 169	NT3	thallium 195	NT3	iodine 121
NT3	rhenium 184	NT3	thallium 196	NT3	iodine 122
NT3	rhenium 186	NT3	thallium 197	NT3	iridium 164
NT3	rhenium 188	NT3	thallium 198	NT3	iridium 165
NT3	rhenium 190	NT3	thallium 201	NT3	krypton 84
NT3	rhenium 194	NT3	thallium 206	NT3	krypton 85
NT3	rhodium 100	NT3	thallium 207	NT3	lead 178
NT3	rhodium 101	NT3	thulium 150	NT3	lutetium 154
NT3	rhodium 103	NT3	thulium 162	NT3	meitnerium 266
NT3	rhodium 104	NT3	thulium 164	NT3	mendelevium 245
NT3	rhodium 105	NT3	tin 102	NT3	mercury 171
NT3	rhodium 95	NT3	tin 113	NT3	mercury 172
NT3	rhodium 96	NT3	tin 117	NT3	mercury 173
NT3	rhodium 97	NT3	tin 119	NT3	mercury 201
NT3	rubidium 76	NT3	tin 121	NT3	neon 34
NT3	rubidium 78	NT3	tin 129	NT3	nobelium 250
NT3	rubidium 81	NT3	tin 131	NT3	polonium 186
NT3	rubidium 84	NT3	tungsten 179	NT3	polonium 188
NT3	rubidium 85	NT3	tungsten 180	NT3	polonium 213
NT3	rubidium 86	NT3	tungsten 183	NT3	polonium 214
NT3	rubidium 90	NT3	tungsten 185	NT3	protactinium 218
NT3	ruthenium 93	NT3	uranium 235	NT3	protactinium 221
NT3	samarium 139	NT3	xenon 125	NT3	radium 217
NT3	samarium 141	NT3	xenon 127	NT3	radium 218
NT3	samarium 143	NT3	xenon 129	NT3	radon 194
NT3	scandium 44	NT3	xenon 131	NT3	radon 215
NT3	scandium 46	NT3	xenon 133	NT3	radon 216
NT3	scandium 50	NT3	xenon 135	NT3	radon 217
NT3	selenium 73	NT3	ytterbium 153	NT3	rhenium 159
NT3	selenium 77	NT3	ytterbium 169	NT3	rhenium 160
NT3	selenium 79	NT3	ytterbium 175	NT3	rhenium 194
NT3	selenium 81	NT3	ytterbium 176	NT3	rhodium 89
NT3	silver 101	NT3	ytterbium 177	NT3	rubidium 76
NT3	silver 102	NT3	yttrium 86	NT3	ruthenium 87
NT3	silver 103	NT3	yttrium 87	NT3	rutherfordium 253
NT3	silver 105	NT3	yttrium 88	NT3	rutherfordium 254
NT3	silver 107	NT3	yttrium 89	NT3	technetium 86
NT3	silver 108	NT3	yttrium 90	NT3	tellurium 106

NT3	terbium 135	NT3	bromine 91	NT3	europium 131
NT3	thorium 217	NT3	bromine 92	NT3	europium 132
NT3	thorium 219	NT3	bromine 93	NT3	europium 133
NT3	thorium 220	NT3	bromine 94	NT3	europium 134
NT3	thulium 144	NT3	cadmium 125	NT3	europium 165
NT3	thulium 145	NT3	cadmium 126	NT3	europium 166
NT3	tin 102	NT3	cadmium 127	NT3	europium 167
NT3	uranium 219	NT3	cadmium 128	NT3	fermium 243
NT3	uranium 222	NT3	cadmium 129	NT3	fermium 244
NT3	uranium 223	NT3	cadmium 130	NT3	fluorine 24
NT3	uranium 224	NT3	cadmium 131	NT3	francium 199
NT3	ytterbium 153	NT3	cadmium 132	NT3	francium 200
NT2	milliseconds living radioisotopes	NT3	cadmium 95	NT3	francium 201
NT3	actinium 206	NT3	cadmium 96	NT3	francium 202
NT3	actinium 207	NT3	calcium 36	NT3	francium 203
NT3	actinium 208	NT3	calcium 37	NT3	francium 206
NT3	actinium 209	NT3	calcium 38	NT3	francium 214
NT3	actinium 210	NT3	calcium 39	NT3	francium 218
NT3	actinium 211	NT3	calcium 53	NT3	francium 219
NT3	actinium 212	NT3	carbon 16	NT3	gadolinium 134
NT3	actinium 213	NT3	carbon 17	NT3	gadolinium 168
NT3	actinium 215	NT3	carbon 18	NT3	gallium 60
NT3	actinium 220	NT3	carbon 9	NT3	gallium 62
NT3	actinium 221	NT3	cerium 119	NT3	gallium 72
NT3	aluminium 22	NT3	cerium 120	NT3	gallium 82
NT3	aluminium 23	NT3	cerium 156	NT3	gallium 83
NT3	aluminium 24	NT3	cerium 157	NT3	gallium 84
NT3	aluminium 31	NT3	cesium 114	NT3	germanium 60
NT3	aluminium 32	NT3	cesium 116	NT3	germanium 61
NT3	aluminium 34	NT3	cesium 145	NT3	germanium 62
NT3	antimony 104	NT3	cesium 146	NT3	germanium 63
NT3	antimony 134	NT3	cesium 147	NT3	germanium 71
NT3	antimony 136	NT3	cesium 148	NT3	germanium 73
NT3	argon 31	NT3	cesium 149	NT3	germanium 85
NT3	argon 32	NT3	cesium 150	NT3	germanium 87
NT3	argon 33	NT3	cesium 151	NT3	gold 172
NT3	argon 34	NT3	chlorine 31	NT3	gold 173
NT3	argon 48	NT3	chlorine 32	NT3	gold 174
NT3	argon 52	NT3	chlorine 50	NT3	gold 175
NT3	argon 53	NT3	chromium 45	NT3	gold 191
NT3	arsenic 64	NT3	chromium 46	NT3	hafnium 155
NT3	arsenic 66	NT3	chromium 47	NT3	hafnium 156
NT3	arsenic 75	NT3	chromium 60	NT3	hafnium 157
NT3	arsenic 84	NT3	chromium 62	NT3	hassium 265
NT3	arsenic 86	NT3	chromium 63	NT3	hassium 266
NT3	arsenic 87	NT3	chromium 64	NT3	hassium 267
NT3	astatine 191	NT3	chromium 65	NT3	hassium 275
NT3	astatine 192	NT3	chromium 66	NT3	helium 6
NT3	astatine 193	NT3	chromium 67	NT3	helium 8
NT3	astatine 194	NT3	cobalt 52	NT3	holmium 140
NT3	astatine 195	NT3	cobalt 53	NT3	holmium 141
NT3	astatine 196	NT3	cobalt 54	NT3	holmium 142
NT3	astatine 197	NT3	cobalt 64	NT3	holmium 143
NT3	astatine 212	NT3	cobalt 66	NT3	holmium 144
NT3	astatine 217	NT3	cobalt 67	NT3	holmium 148
NT3	barium 114	NT3	cobalt 71	NT3	indium 114
NT3	barium 115	NT3	cobalt 72	NT3	indium 128
NT3	barium 116	NT3	cobalt 73	NT3	indium 129
NT3	barium 136	NT3	copper 56	NT3	indium 130
NT3	barium 147	NT3	copper 57	NT3	indium 131
NT3	barium 148	NT3	copper 76	NT3	indium 132
NT3	barium 149	NT3	copper 77	NT3	indium 133
NT3	barium 150	NT3	copper 78	NT3	indium 134
NT3	beryllium 12	NT3	copper 79	NT3	indium 135
NT3	beryllium 14	NT3	darmstadtium 270	NT3	indium 97
NT3	bismuth 184	NT3	darmstadtium 271	NT3	indium 98
NT3	bismuth 186	NT3	darmstadtium 273	NT3	iodine 108
NT3	bismuth 187	NT3	darmstadtium 279	NT3	iodine 110
NT3	bohrium 261	NT3	dysprosium 138	NT3	iodine 140
NT3	bohrium 262	NT3	dysprosium 139	NT3	iodine 141
NT3	bohrium 264	NT3	dysprosium 149	NT3	iodine 142
NT3	bohrium 265	NT3	element 113 283	NT3	iridium 166
NT3	boron 12	NT3	element 113 284	NT3	iridium 167
NT3	boron 13	NT3	element 114 286	NT3	iridium 169
NT3	boron 14	NT3	element 114 287	NT3	iridium 194
NT3	boron 15	NT3	element 114 288	NT3	iron 45
NT3	boron 17	NT3	element 115 287	NT3	iron 46
NT3	boron 8	NT3	element 115 288	NT3	iron 49
NT3	bromine 70	NT3	erbium 151	NT3	iron 51

NT3	iron 69	NT3	niobium 107	NT3	radon 213
NT3	iron 70	NT3	niobium 108	NT3	radon 218
NT3	krypton 71	NT3	niobium 109	NT3	rhenium 161
NT3	krypton 94	NT3	niobium 110	NT3	rhenium 162
NT3	krypton 95	NT3	niobium 111	NT3	rhenium 163
NT3	krypton 99	NT3	niobium 113	NT3	rhenium 164
NT3	lanthanum 117	NT3	niobium 81	NT3	rhodium 115
NT3	lanthanum 150	NT3	niobium 82	NT3	rhodium 116
NT3	lawrencium 257	NT3	nitrogen 12	NT3	rhodium 118
NT3	lead 179	NT3	nitrogen 18	NT3	rhodium 120
NT3	lead 180	NT3	nitrogen 19	NT3	rhodium 121
NT3	lead 181	NT3	nobelium 251	NT3	rhodium 122
NT3	lead 182	NT3	nobelium 254	NT3	rhodium 92
NT3	lead 184	NT3	nobelium 258	NT3	roentgenium 272
NT3	lead 205	NT3	osmium 162	NT3	roentgenium 273
NT3	lead 207	NT3	osmium 164	NT3	roentgenium 274
NT3	lithium 10	NT3	osmium 165	NT3	roentgenium 279
NT3	lithium 11	NT3	osmium 166	NT3	rubidium 100
NT3	lithium 8	NT3	osmium 167	NT3	rubidium 74
NT3	lithium 9	NT3	oxygen 13	NT3	rubidium 95
NT3	lutetium 150	NT3	oxygen 24	NT3	rubidium 96
NT3	lutetium 151	NT3	palladium 117	NT3	rubidium 97
NT3	lutetium 152	NT3	palladium 119	NT3	rubidium 98
NT3	lutetium 153	NT3	palladium 120	NT3	rubidium 99
NT3	lutetium 155	NT3	palladium 92	NT3	ruthenium 114
NT3	lutetium 156	NT3	phosphorus 26	NT3	ruthenium 115
NT3	lutetium 161	NT3	phosphorus 27	NT3	ruthenium 116
NT3	lutetium 170	NT3	phosphorus 28	NT3	ruthenium 117
NT3	magnesium 19	NT3	phosphorus 38	NT3	ruthenium 118
NT3	magnesium 20	NT3	platinum 169	NT3	rutherfordium 254
NT3	magnesium 21	NT3	platinum 170	NT3	rutherfordium 256
NT3	magnesium 30	NT3	platinum 171	NT3	rutherfordium 258
NT3	magnesium 31	NT3	platinum 172	NT3	rutherfordium 260
NT3	manganese 48	NT3	platinum 173	NT3	rutherfordium 262
NT3	manganese 49	NT3	platinum 174	NT3	samarium 128
NT3	manganese 50	NT3	platinum 184	NT3	samarium 129
NT3	manganese 61	NT3	plutonium 230	NT3	samarium 164
NT3	manganese 62	NT3	polonium 187	NT3	samarium 165
NT3	manganese 63	NT3	polonium 189	NT3	scandium 40
NT3	manganese 66	NT3	polonium 190	NT3	scandium 41
NT3	manganese 67	NT3	polonium 191	NT3	scandium 42
NT3	manganese 68	NT3	polonium 192	NT3	scandium 50
NT3	manganese 69	NT3	polonium 193	NT3	scandium 56
NT3	meitnerium 266	NT3	polonium 194	NT3	scandium 57
NT3	meitnerium 267	NT3	polonium 211	NT3	scandium 58
NT3	meitnerium 268	NT3	polonium 215	NT3	scandium 59
NT3	meitnerium 270	NT3	polonium 216	NT3	scandium 60
NT3	meitnerium 275	NT3	potassium 35	NT3	seaborgium 258
NT3	meitnerium 276	NT3	potassium 36	NT3	seaborgium 259
NT3	mendelevium 245	NT3	potassium 50	NT3	seaborgium 260
NT3	mendelevium 246	NT3	potassium 51	NT3	seaborgium 261
NT3	mercury 174	NT3	potassium 52	NT3	seaborgium 262
NT3	mercury 175	NT3	potassium 53	NT3	seaborgium 263
NT3	mercury 176	NT3	potassium 54	NT3	seaborgium 264
NT3	mercury 177	NT3	praseodymium 157	NT3	selenium 65
NT3	mercury 178	NT3	praseodymium 158	NT3	selenium 66
NT3	molybdenum 109	NT3	praseodymium 159	NT3	selenium 67
NT3	molybdenum 111	NT3	protactinium 212	NT3	selenium 89
NT3	molybdenum 83	NT3	protactinium 213	NT3	selenium 91
NT3	molybdenum 89	NT3	protactinium 214	NT3	silicon 24
NT3	neodymium 124	NT3	protactinium 215	NT3	silicon 25
NT3	neodymium 125	NT3	protactinium 216	NT3	silicon 35
NT3	neodymium 159	NT3	protactinium 217	NT3	silicon 36
NT3	neodymium 160	NT3	protactinium 222	NT3	silver 120
NT3	neodymium 161	NT3	protactinium 223	NT3	silver 121
NT3	neon 17	NT3	protactinium 224	NT3	silver 123
NT3	neon 25	NT3	radium 203	NT3	silver 124
NT3	neon 26	NT3	radium 204	NT3	silver 125
NT3	neon 31	NT3	radium 205	NT3	silver 126
NT3	neptunium 226	NT3	radium 206	NT3	silver 127
NT3	neptunium 227	NT3	radium 213	NT3	silver 128
NT3	nickel 49	NT3	radium 215	NT3	silver 129
NT3	nickel 50	NT3	radium 219	NT3	silver 130
NT3	nickel 52	NT3	radium 220	NT3	silver 94
NT3	nickel 53	NT3	radon 193	NT3	silver 95
NT3	nickel 55	NT3	radon 195	NT3	sodium 19
NT3	nickel 73	NT3	radon 197	NT3	sodium 20
NT3	nickel 75	NT3	radon 198	NT3	sodium 24
NT3	nickel 76	NT3	radon 199	NT3	sodium 27

<b>NT3</b>	sodium 28	<b>NT3</b>	vanadium 45	<b>NT3</b>	astatine 220
<b>NT3</b>	sodium 29	<b>NT3</b>	vanadium 46	<b>NT3</b>	astatine 221
<b>NT3</b>	sodium 30	<b>NT3</b>	vanadium 64	<b>NT3</b>	barium 122
<b>NT3</b>	sodium 31	<b>NT3</b>	vanadium 65	<b>NT3</b>	barium 123
<b>NT3</b>	sodium 32	<b>NT3</b>	xenon 109	<b>NT3</b>	barium 124
<b>NT3</b>	sodium 33	<b>NT3</b>	xenon 110	<b>NT3</b>	barium 125
<b>NT3</b>	sodium 34	<b>NT3</b>	xenon 111	<b>NT3</b>	barium 127
<b>NT3</b>	sodium 35	<b>NT3</b>	xenon 143	<b>NT3</b>	barium 131
<b>NT3</b>	strontium 100	<b>NT3</b>	xenon 145	<b>NT3</b>	barium 137
<b>NT3</b>	strontium 101	<b>NT3</b>	xenon 147	<b>NT3</b>	barium 141
<b>NT3</b>	strontium 102	<b>NT3</b>	ytterbium 148	<b>NT3</b>	barium 142
<b>NT3</b>	strontium 75	<b>NT3</b>	ytterbium 149	<b>NT3</b>	berkelium 238
<b>NT3</b>	strontium 97	<b>NT3</b>	ytterbium 154	<b>NT3</b>	berkelium 239
<b>NT3</b>	strontium 98	<b>NT3</b>	ytterbium 175	<b>NT3</b>	berkelium 240
<b>NT3</b>	strontium 99	<b>NT3</b>	yttrium 100	<b>NT3</b>	berkelium 242
<b>NT3</b>	sulfur 26	<b>NT3</b>	yttrium 101	<b>NT3</b>	berkelium 251
<b>NT3</b>	sulfur 28	<b>NT3</b>	yttrium 102	<b>NT3</b>	berkelium 252
<b>NT3</b>	sulfur 29	<b>NT3</b>	yttrium 103	<b>NT3</b>	berkelium 253
<b>NT3</b>	tantalum 156	<b>NT3</b>	yttrium 104	<b>NT3</b>	berkelium 254
<b>NT3</b>	tantalum 157	<b>NT3</b>	yttrium 107	<b>NT3</b>	bismuth 193
<b>NT3</b>	tantalum 158	<b>NT3</b>	yttrium 108	<b>NT3</b>	bismuth 194
<b>NT3</b>	tantalum 159	<b>NT3</b>	yttrium 78	<b>NT3</b>	bismuth 195
<b>NT3</b>	tantalum 182	<b>NT3</b>	yttrium 88	<b>NT3</b>	bismuth 196
<b>NT3</b>	technetium 110	<b>NT3</b>	yttrium 93	<b>NT3</b>	bismuth 197
<b>NT3</b>	technetium 111	<b>NT3</b>	yttrium 97	<b>NT3</b>	bismuth 198
<b>NT3</b>	technetium 112	<b>NT3</b>	yttrium 98	<b>NT3</b>	bismuth 199
<b>NT3</b>	technetium 113	<b>NT3</b>	zinc 57	<b>NT3</b>	bismuth 200
<b>NT3</b>	technetium 114	<b>NT3</b>	zinc 59	<b>NT3</b>	bismuth 201
<b>NT3</b>	technetium 115	<b>NT3</b>	zinc 80	<b>NT3</b>	bismuth 211
<b>NT3</b>	technetium 116	<b>NT3</b>	zinc 81	<b>NT3</b>	bismuth 212
<b>NT3</b>	technetium 117	<b>NT3</b>	zirconium 105	<b>NT3</b>	bismuth 213
<b>NT3</b>	technetium 85	<b>NT3</b>	zirconium 79	<b>NT3</b>	bismuth 214
<b>NT3</b>	technetium 86	<b>NT3</b>	zirconium 90	<b>NT3</b>	bismuth 215
<b>NT3</b>	tellurium 107	<b>NT2</b>	minutes living radioisotopes	<b>NT3</b>	bismuth 216
<b>NT3</b>	terbium 136	<b>NT3</b>	actinium 222	<b>NT3</b>	bohrium 275
<b>NT3</b>	terbium 137	<b>NT3</b>	actinium 223	<b>NT3</b>	bromine 72
<b>NT3</b>	terbium 138	<b>NT3</b>	actinium 230	<b>NT3</b>	bromine 73
<b>NT3</b>	terbium 142	<b>NT3</b>	actinium 231	<b>NT3</b>	bromine 74
<b>NT3</b>	terbium 146	<b>NT3</b>	actinium 232	<b>NT3</b>	bromine 77
<b>NT3</b>	terbium 171	<b>NT3</b>	actinium 233	<b>NT3</b>	bromine 78
<b>NT3</b>	thallium 176	<b>NT3</b>	aluminium 28	<b>NT3</b>	bromine 80
<b>NT3</b>	thallium 177	<b>NT3</b>	aluminium 29	<b>NT3</b>	bromine 82
<b>NT3</b>	thallium 178	<b>NT3</b>	americium 233	<b>NT3</b>	bromine 84
<b>NT3</b>	thallium 179	<b>NT3</b>	americium 234	<b>NT3</b>	bromine 85
<b>NT3</b>	thallium 183	<b>NT3</b>	americium 235	<b>NT3</b>	cadmium 100
<b>NT3</b>	thorium 209	<b>NT3</b>	americium 236	<b>NT3</b>	cadmium 101
<b>NT3</b>	thorium 210	<b>NT3</b>	americium 244	<b>NT3</b>	cadmium 102
<b>NT3</b>	thorium 211	<b>NT3</b>	americium 246	<b>NT3</b>	cadmium 103
<b>NT3</b>	thorium 212	<b>NT3</b>	americium 247	<b>NT3</b>	cadmium 104
<b>NT3</b>	thorium 213	<b>NT3</b>	americium 248	<b>NT3</b>	cadmium 105
<b>NT3</b>	thorium 214	<b>NT3</b>	americium 249	<b>NT3</b>	cadmium 111
<b>NT3</b>	thorium 216	<b>NT3</b>	antimony 111	<b>NT3</b>	cadmium 118
<b>NT3</b>	thorium 221	<b>NT3</b>	antimony 113	<b>NT3</b>	cadmium 119
<b>NT3</b>	thorium 222	<b>NT3</b>	antimony 114	<b>NT3</b>	calcium 49
<b>NT3</b>	thorium 223	<b>NT3</b>	antimony 115	<b>NT3</b>	californium 240
<b>NT3</b>	thulium 146	<b>NT3</b>	antimony 116	<b>NT3</b>	californium 241
<b>NT3</b>	thulium 147	<b>NT3</b>	antimony 118	<b>NT3</b>	californium 242
<b>NT3</b>	thulium 150	<b>NT3</b>	antimony 120	<b>NT3</b>	californium 243
<b>NT3</b>	tin 135	<b>NT3</b>	antimony 122	<b>NT3</b>	californium 244
<b>NT3</b>	tin 136	<b>NT3</b>	antimony 124	<b>NT3</b>	californium 245
<b>NT3</b>	tin 137	<b>NT3</b>	antimony 126	<b>NT3</b>	californium 256
<b>NT3</b>	tin 99	<b>NT3</b>	antimony 128	<b>NT3</b>	carbon 11
<b>NT3</b>	titanium 40	<b>NT3</b>	antimony 129	<b>NT3</b>	cerium 128
<b>NT3</b>	titanium 41	<b>NT3</b>	antimony 130	<b>NT3</b>	cerium 129
<b>NT3</b>	titanium 42	<b>NT3</b>	antimony 131	<b>NT3</b>	cerium 130
<b>NT3</b>	titanium 43	<b>NT3</b>	antimony 132	<b>NT3</b>	cerium 131
<b>NT3</b>	titanium 58	<b>NT3</b>	antimony 133	<b>NT3</b>	cerium 145
<b>NT3</b>	titanium 59	<b>NT3</b>	argon 43	<b>NT3</b>	cerium 146
<b>NT3</b>	titanium 60	<b>NT3</b>	argon 44	<b>NT3</b>	cesium 120
<b>NT3</b>	titanium 61	<b>NT3</b>	arsenic 68	<b>NT3</b>	cesium 121
<b>NT3</b>	tungsten 159	<b>NT3</b>	arsenic 69	<b>NT3</b>	cesium 122
<b>NT3</b>	tungsten 160	<b>NT3</b>	arsenic 70	<b>NT3</b>	cesium 123
<b>NT3</b>	tungsten 161	<b>NT3</b>	arsenic 79	<b>NT3</b>	cesium 125
<b>NT3</b>	uranium 217	<b>NT3</b>	astatine 201	<b>NT3</b>	cesium 126
<b>NT3</b>	uranium 218	<b>NT3</b>	astatine 202	<b>NT3</b>	cesium 128
<b>NT3</b>	uranium 225	<b>NT3</b>	astatine 203	<b>NT3</b>	cesium 130
<b>NT3</b>	uranium 226	<b>NT3</b>	astatine 204	<b>NT3</b>	cesium 135
<b>NT3</b>	vanadium 42	<b>NT3</b>	astatine 205	<b>NT3</b>	cesium 138
<b>NT3</b>	vanadium 44	<b>NT3</b>	astatine 206	<b>NT3</b>	cesium 139

NT3 cesium 140	NT3 gold 186	NT3 lanthanum 143
NT3 chlorine 34	NT3 gold 187	NT3 lawrencium 260
NT3 chlorine 38	NT3 gold 188	NT3 lead 190
NT3 chlorine 39	NT3 gold 189	NT3 lead 191
NT3 chlorine 40	NT3 gold 190	NT3 lead 192
NT3 chromium 49	NT3 gold 200	NT3 lead 193
NT3 chromium 55	NT3 gold 201	NT3 lead 194
NT3 chromium 56	NT3 hafnium 164	NT3 lead 195
NT3 cobalt 54	NT3 hafnium 165	NT3 lead 196
NT3 cobalt 60	NT3 hafnium 166	NT3 lead 197
NT3 cobalt 62	NT3 hafnium 167	NT3 lead 199
NT3 copper 59	NT3 hafnium 168	NT3 lead 201
NT3 copper 60	NT3 hafnium 169	NT3 lead 211
NT3 copper 62	NT3 hafnium 177	NT3 lead 213
NT3 copper 66	NT3 hassium 274	NT3 lead 214
NT3 copper 68	NT3 holmium 150	NT3 lutetium 161
NT3 copper 69	NT3 holmium 152	NT3 lutetium 162
NT3 curium 233	NT3 holmium 153	NT3 lutetium 163
NT3 curium 234	NT3 holmium 154	NT3 lutetium 164
NT3 curium 235	NT3 holmium 155	NT3 lutetium 165
NT3 curium 236	NT3 holmium 156	NT3 lutetium 166
NT3 curium 237	NT3 holmium 157	NT3 lutetium 167
NT3 curium 251	NT3 holmium 158	NT3 lutetium 168
NT3 dubnium 264	NT3 holmium 159	NT3 lutetium 169
NT3 dubnium 265	NT3 holmium 160	NT3 lutetium 171
NT3 dubnium 266	NT3 holmium 162	NT3 lutetium 172
NT3 dysprosium 147	NT3 holmium 164	NT3 lutetium 178
NT3 dysprosium 148	NT3 holmium 168	NT3 lutetium 180
NT3 dysprosium 149	NT3 holmium 169	NT3 lutetium 181
NT3 dysprosium 150	NT3 holmium 170	NT3 lutetium 182
NT3 dysprosium 151	NT3 indium 103	NT3 lutetium 187
NT3 dysprosium 165	NT3 indium 104	NT3 magnesium 27
NT3 dysprosium 167	NT3 indium 105	NT3 manganese 50
NT3 dysprosium 168	NT3 indium 106	NT3 manganese 51
NT3 einsteinium 245	NT3 indium 107	NT3 manganese 52
NT3 einsteinium 246	NT3 indium 108	NT3 manganese 57
NT3 einsteinium 247	NT3 indium 109	NT3 manganese 58
NT3 einsteinium 248	NT3 indium 111	NT3 meitnerium 265
NT3 einsteinium 256	NT3 indium 112	NT3 meitnerium 279
NT3 element 112 283	NT3 indium 114	NT3 mendeleevium 251
NT3 erbium 154	NT3 indium 116	NT3 mendeleevium 252
NT3 erbium 155	NT3 indium 117	NT3 mendeleevium 253
NT3 erbium 156	NT3 indium 118	NT3 mendeleevium 254
NT3 erbium 157	NT3 indium 119	NT3 mendeleevium 255
NT3 erbium 159	NT3 indium 121	NT3 mendeleevium 258
NT3 erbium 173	NT3 iodine 115	NT3 mercury 186
NT3 erbium 174	NT3 iodine 117	NT3 mercury 187
NT3 europium 142	NT3 iodine 118	NT3 mercury 188
NT3 europium 143	NT3 iodine 119	NT3 mercury 189
NT3 europium 154	NT3 iodine 120	NT3 mercury 190
NT3 europium 158	NT3 iodine 122	NT3 mercury 191
NT3 europium 159	NT3 iodine 128	NT3 mercury 199
NT3 fermium 249	NT3 iodine 130	NT3 mercury 205
NT3 fermium 250	NT3 iodine 134	NT3 mercury 206
NT3 fluorine 17	NT3 iodine 136	NT3 molybdenum 101
NT3 francium 210	NT3 iridium 179	NT3 molybdenum 102
NT3 francium 211	NT3 iridium 180	NT3 molybdenum 103
NT3 francium 212	NT3 iridium 181	NT3 molybdenum 104
NT3 francium 221	NT3 iridium 182	NT3 molybdenum 88
NT3 francium 222	NT3 iridium 183	NT3 molybdenum 89
NT3 francium 223	NT3 iridium 192	NT3 molybdenum 91
NT3 francium 224	NT3 iridium 197	NT3 neodymium 132
NT3 francium 225	NT3 iridium 199	NT3 neodymium 133
NT3 francium 227	NT3 iron 53	NT3 neodymium 134
NT3 gadolinium 142	NT3 iron 61	NT3 neodymium 135
NT3 gadolinium 143	NT3 iron 62	NT3 neodymium 136
NT3 gadolinium 144	NT3 krypton 74	NT3 neodymium 137
NT3 gadolinium 145	NT3 krypton 75	NT3 neodymium 139
NT3 gadolinium 161	NT3 krypton 89	NT3 neodymium 141
NT3 gadolinium 162	NT3 lanthanum 125	NT3 neodymium 151
NT3 gadolinium 163	NT3 lanthanum 126	NT3 neodymium 152
NT3 gallium 64	NT3 lanthanum 127	NT3 neon 24
NT3 gallium 65	NT3 lanthanum 128	NT3 neptunium 229
NT3 gallium 70	NT3 lanthanum 129	NT3 neptunium 230
NT3 gallium 74	NT3 lanthanum 130	NT3 neptunium 231
NT3 gallium 75	NT3 lanthanum 131	NT3 neptunium 232
NT3 germanium 64	NT3 lanthanum 132	NT3 neptunium 233
NT3 germanium 67	NT3 lanthanum 134	NT3 neptunium 240
NT3 gold 185	NT3 lanthanum 136	NT3 neptunium 241

NT3	neptunium 242	NT3	protactinium 226	NT3	selenium 81
NT3	neptunium 243	NT3	protactinium 227	NT3	selenium 83
NT3	neptunium 244	NT3	protactinium 234	NT3	selenium 84
NT3	niobium 85	NT3	protactinium 235	NT3	silver 100
NT3	niobium 86	NT3	protactinium 236	NT3	silver 101
NT3	niobium 87	NT3	protactinium 237	NT3	silver 102
NT3	niobium 88	NT3	protactinium 238	NT3	silver 104
NT3	niobium 94	NT3	radium 213	NT3	silver 105
NT3	niobium 98	NT3	radium 227	NT3	silver 106
NT3	niobium 99	NT3	radium 229	NT3	silver 108
NT3	nitrogen 13	NT3	radium 231	NT3	silver 111
NT3	nobelium 253	NT3	radium 232	NT3	silver 113
NT3	nobelium 255	NT3	radon 204	NT3	silver 115
NT3	nobelium 259	NT3	radon 205	NT3	silver 116
NT3	osmium 175	NT3	radon 206	NT3	silver 117
NT3	osmium 176	NT3	radon 207	NT3	silver 99
NT3	osmium 177	NT3	radon 208	NT3	strontium 78
NT3	osmium 178	NT3	radon 209	NT3	strontium 79
NT3	osmium 179	NT3	radon 212	NT3	strontium 81
NT3	osmium 180	NT3	radon 221	NT3	strontium 93
NT3	osmium 181	NT3	radon 223	NT3	strontium 94
NT3	osmium 190	NT3	radon 225	NT3	sulfur 37
NT3	osmium 195	NT3	radon 226	NT3	tantalum 167
NT3	osmium 196	NT3	rhodium 173	NT3	tantalum 168
NT3	osmium 197	NT3	rhodium 174	NT3	tantalum 169
NT3	oxygen 14	NT3	rhodium 175	NT3	tantalum 170
NT3	oxygen 15	NT3	rhodium 176	NT3	tantalum 171
NT3	palladium 109	NT3	rhodium 177	NT3	tantalum 172
NT3	palladium 111	NT3	rhodium 178	NT3	tantalum 178
NT3	palladium 113	NT3	rhodium 179	NT3	tantalum 182
NT3	palladium 114	NT3	rhodium 180	NT3	tantalum 185
NT3	palladium 96	NT3	rhodium 188	NT3	tantalum 186
NT3	palladium 97	NT3	rhodium 190	NT3	tantalum 187
NT3	palladium 98	NT3	rhodium 191	NT3	technetium 101
NT3	palladium 99	NT3	rhodium 100	NT3	technetium 102
NT3	phosphorus 30	NT3	rhodium 103	NT3	technetium 104
NT3	platinum 182	NT3	rhodium 104	NT3	technetium 105
NT3	platinum 183	NT3	rhodium 107	NT3	technetium 91
NT3	platinum 184	NT3	rhodium 108	NT3	technetium 92
NT3	platinum 185	NT3	rhodium 109	NT3	technetium 93
NT3	platinum 199	NT3	rhodium 94	NT3	technetium 94
NT3	platinum 201	NT3	rhodium 95	NT3	technetium 96
NT3	plutonium 232	NT3	rhodium 96	NT3	tellurium 112
NT3	plutonium 233	NT3	rhodium 97	NT3	tellurium 113
NT3	plutonium 235	NT3	rhodium 98	NT3	tellurium 114
NT3	polonium 198	NT3	rhodium 77	NT3	tellurium 115
NT3	polonium 199	NT3	rubidium 78	NT3	tellurium 131
NT3	polonium 200	NT3	rubidium 79	NT3	tellurium 133
NT3	polonium 201	NT3	rubidium 81	NT3	tellurium 134
NT3	polonium 202	NT3	rubidium 82	NT3	terbium 147
NT3	polonium 203	NT3	rubidium 84	NT3	terbium 148
NT3	polonium 218	NT3	rubidium 86	NT3	terbium 149
NT3	potassium 38	NT3	rubidium 88	NT3	terbium 150
NT3	potassium 44	NT3	rubidium 89	NT3	terbium 152
NT3	potassium 45	NT3	rubidium 90	NT3	terbium 162
NT3	potassium 46	NT3	ruthenium 107	NT3	terbium 163
NT3	praseodymium 131	NT3	ruthenium 108	NT3	terbium 164
NT3	praseodymium 132	NT3	ruthenium 92	NT3	terbium 165
NT3	praseodymium 133	NT3	ruthenium 93	NT3	thallium 188
NT3	praseodymium 134	NT3	ruthenium 94	NT3	thallium 189
NT3	praseodymium 135	NT3	rutherfordium 261	NT3	thallium 190
NT3	praseodymium 136	NT3	rutherfordium 263	NT3	thallium 191
NT3	praseodymium 138	NT3	samarium 138	NT3	thallium 192
NT3	praseodymium 140	NT3	samarium 139	NT3	thallium 193
NT3	praseodymium 142	NT3	samarium 140	NT3	thallium 194
NT3	praseodymium 144	NT3	samarium 141	NT3	thallium 206
NT3	praseodymium 146	NT3	samarium 143	NT3	thallium 207
NT3	praseodymium 147	NT3	samarium 155	NT3	thallium 208
NT3	praseodymium 148	NT3	samarium 157	NT3	thallium 209
NT3	praseodymium 149	NT3	samarium 158	NT3	thallium 210
NT3	promethium 136	NT3	scandium 49	NT3	thorium 225
NT3	promethium 137	NT3	scandium 50	NT3	thorium 226
NT3	promethium 138	NT3	seaborgium 270	NT3	thorium 233
NT3	promethium 139	NT3	seaborgium 271	NT3	thorium 235
NT3	promethium 140	NT3	selenium 68	NT3	thorium 236
NT3	promethium 141	NT3	selenium 70	NT3	thorium 237
NT3	promethium 152	NT3	selenium 71	NT3	thulium 156
NT3	promethium 153	NT3	selenium 73	NT3	thulium 157
NT3	promethium 154	NT3	selenium 79	NT3	thulium 158

NT3	thulium 159	NT3	zirconium 85	NT3	argon 30
NT3	thulium 160	NT3	zirconium 89	NT3	arsenic 62
NT3	thulium 161	NT2	nanoseconds living radioisotopes	NT3	arsenic 63
NT3	thulium 162	NT3	actinium 217	NT3	arsenic 64
NT3	thulium 164	NT3	aluminium 40	NT3	bismuth 185
NT3	thulium 174	NT3	antimony 113	NT3	calcium 34
NT3	thulium 175	NT3	antimony 117	NT3	cesium 112
NT3	thulium 176	NT3	argon 30	NT3	cesium 113
NT3	thulium 177	NT3	astatine 213	NT3	chlorine 28
NT3	tin 106	NT3	astatine 214	NT3	chlorine 29
NT3	tin 107	NT3	barium 138	NT3	chlorine 30
NT3	tin 108	NT3	bismuth 211	NT3	cobalt 49
NT3	tin 109	NT3	bromine 83	NT3	cobalt 52
NT3	tin 111	NT3	calcium 34	NT3	cobalt 53
NT3	tin 113	NT3	carbon 21	NT3	copper 52
NT3	tin 123	NT3	chlorine 29	NT3	copper 53
NT3	tin 125	NT3	chlorine 30	NT3	copper 54
NT3	tin 127	NT3	chromium 65	NT3	europium 130
NT3	tin 128	NT3	chromium 66	NT3	europium 131
NT3	tin 129	NT3	cobalt 49	NT3	europium 132
NT3	tin 130	NT3	fermium 256	NT3	fluorine 14
NT3	tin 131	NT3	fluorine 18	NT3	germanium 62
NT3	titanium 51	NT3	fluorine 28	NT3	gold 170
NT3	titanium 52	NT3	fluorine 30	NT3	gold 171
NT3	tungsten 170	NT3	fluorine 31	NT3	holmium 140
NT3	tungsten 171	NT3	francium 211	NT3	holmium 141
NT3	tungsten 172	NT3	francium 212	NT3	iodine 109
NT3	tungsten 173	NT3	francium 213	NT3	iridium 164
NT3	tungsten 174	NT3	francium 215	NT3	iridium 165
NT3	tungsten 175	NT3	francium 216	NT3	iron 45
NT3	tungsten 179	NT3	gadolinium 136	NT3	lanthanum 117
NT3	tungsten 185	NT3	gadolinium 147	NT3	lutetium 150
NT3	tungsten 189	NT3	gadolinium 148	NT3	lutetium 151
NT3	tungsten 190	NT3	germanium 86	NT3	manganese 45
NT3	uranium 227	NT3	germanium 88	NT3	nitrogen 10
NT3	uranium 228	NT3	germanium 89	NT3	potassium 33
NT3	uranium 229	NT3	krypton 86	NT3	potassium 34
NT3	uranium 235	NT3	krypton 97	NT3	rhenium 159
NT3	uranium 239	NT3	lead 194	NT3	rhenium 160
NT3	uranium 241	NT3	lead 200	NT3	rubidium 71
NT3	uranium 242	NT3	magnesium 37	NT3	rubidium 72
NT3	vanadium 47	NT3	magnesium 39	NT3	scandium 36
NT3	vanadium 52	NT3	manganese 45	NT3	scandium 37
NT3	vanadium 53	NT3	molybdenum 92	NT3	scandium 38
NT3	xenon 117	NT3	molybdenum 94	NT3	scandium 39
NT3	xenon 118	NT3	neon 33	NT3	selenium 66
NT3	xenon 119	NT3	neptunium 237	NT3	sodium 19
NT3	xenon 120	NT3	osmium 182	NT3	sulfur 26
NT3	xenon 121	NT3	oxygen 25	NT3	tantalum 155
NT3	xenon 127	NT3	oxygen 26	NT3	terbium 135
NT3	xenon 135	NT3	oxygen 27	NT3	terbium 137
NT3	xenon 137	NT3	phosphorus 25	NT3	terbium 138
NT3	xenon 138	NT3	plutonium 237	NT3	thallium 176
NT3	ytterbium 158	NT3	polonium 210	NT3	thallium 177
NT3	ytterbium 159	NT3	polonium 212	NT3	thulium 144
NT3	ytterbium 160	NT3	potassium 40	NT3	thulium 145
NT3	ytterbium 161	NT3	protactinium 219	NT3	thulium 146
NT3	ytterbium 162	NT3	protactinium 220	NT3	thulium 147
NT3	ytterbium 163	NT3	radium 216	NT3	vanadium 40
NT3	ytterbium 165	NT3	radon 210	NT3	vanadium 41
NT3	ytterbium 167	NT3	radon 211	NT3	zinc 54
NT3	ytterbium 179	NT3	radon 214	NT3	zinc 55
NT3	ytterbium 180	NT3	rhodium 90	NT3	zinc 56
NT3	yttrium 81	NT3	rhodium 91	NT2	seconds living radioisotopes
NT3	yttrium 83	NT3	rubidium 85	NT3	actinium 214
NT3	yttrium 84	NT3	scandium 38	NT3	actinium 222
NT3	yttrium 86	NT3	selenium 64	NT3	actinium 234
NT3	yttrium 91	NT3	sodium 22	NT3	actinium 235
NT3	yttrium 94	NT3	tellurium 105	NT3	aluminium 24
NT3	yttrium 95	NT3	thorium 218	NT3	aluminium 25
NT3	zinc 60	NT3	titanium 58	NT3	aluminium 26
NT3	zinc 61	NT3	titanium 59	NT3	aluminium 30
NT3	zinc 63	NT3	vanadium 61	NT3	americium 231
NT3	zinc 69	NT3	vanadium 62	NT3	americium 232
NT3	zinc 71	NT3	vanadium 63	NT3	antimony 105
NT3	zinc 74	NT3	zirconium 109	NT3	antimony 106
NT3	zirconium 81	NT2	neutron-deficient isotopes	NT3	antimony 107
NT3	zirconium 82	NT2	proton decay radioisotopes	NT3	antimony 108
NT3	zirconium 84	NT3	aluminium 21	NT3	antimony 109



NT3	antimony 110	NT3	cerium 147	NT3	europium 144
NT3	antimony 112	NT3	cerium 148	NT3	europium 160
NT3	antimony 126	NT3	cerium 149	NT3	europium 161
NT3	antimony 134	NT3	cerium 150	NT3	europium 162
NT3	antimony 135	NT3	cerium 151	NT3	europium 163
NT3	argon 35	NT3	cerium 152	NT3	europium 164
NT3	argon 45	NT3	cesium 115	NT3	fermium 245
NT3	argon 46	NT3	cesium 116	NT3	fermium 246
NT3	arsenic 67	NT3	cesium 117	NT3	fermium 247
NT3	arsenic 80	NT3	cesium 118	NT3	fermium 248
NT3	arsenic 81	NT3	cesium 119	NT3	fermium 250
NT3	arsenic 82	NT3	cesium 122	NT3	fermium 259
NT3	arsenic 83	NT3	cesium 123	NT3	fluorine 20
NT3	arsenic 84	NT3	cesium 124	NT3	fluorine 21
NT3	arsenic 85	NT3	cesium 136	NT3	fluorine 22
NT3	astatine 198	NT3	cesium 141	NT3	fluorine 23
NT3	astatine 199	NT3	cesium 142	NT3	francium 204
NT3	astatine 200	NT3	cesium 143	NT3	francium 205
NT3	astatine 202	NT3	cesium 144	NT3	francium 206
NT3	astatine 218	NT3	chlorine 33	NT3	francium 207
NT3	astatine 219	NT3	chlorine 34	NT3	francium 208
NT3	astatine 222	NT3	chlorine 38	NT3	francium 209
NT3	astatine 223	NT3	chlorine 41	NT3	francium 213
NT3	barium 117	NT3	chromium 57	NT3	francium 220
NT3	barium 118	NT3	chromium 58	NT3	francium 226
NT3	barium 119	NT3	chromium 59	NT3	francium 228
NT3	barium 120	NT3	cobalt 63	NT3	francium 229
NT3	barium 121	NT3	cobalt 65	NT3	francium 230
NT3	barium 127	NT3	copper 58	NT3	francium 231
NT3	barium 143	NT3	copper 68	NT3	francium 232
NT3	barium 144	NT3	copper 70	NT3	gadolinium 135
NT3	barium 145	NT3	copper 71	NT3	gadolinium 140
NT3	barium 146	NT3	copper 72	NT3	gadolinium 141
NT3	berkelium 235	NT3	copper 73	NT3	gadolinium 143
NT3	beryllium 11	NT3	copper 74	NT3	gadolinium 164
NT3	bismuth 189	NT3	copper 75	NT3	gadolinium 165
NT3	bismuth 190	NT3	dubnium 255	NT3	gadolinium 166
NT3	bismuth 191	NT3	dubnium 256	NT3	gadolinium 167
NT3	bismuth 192	NT3	dubnium 257	NT3	gadolinium 169
NT3	bismuth 193	NT3	dubnium 258	NT3	gallium 63
NT3	bismuth 198	NT3	dubnium 259	NT3	gallium 74
NT3	bismuth 217	NT3	dubnium 260	NT3	gallium 76
NT3	bismuth 218	NT3	dubnium 261	NT3	gallium 77
NT3	bohrium 266	NT3	dubnium 262	NT3	gallium 78
NT3	bohrium 267	NT3	dubnium 263	NT3	gallium 79
NT3	bohrium 271	NT3	dysprosium 140	NT3	gallium 80
NT3	bohrium 272	NT3	dysprosium 141	NT3	gallium 81
NT3	bromine 71	NT3	dysprosium 142	NT3	germanium 65
NT3	bromine 76	NT3	dysprosium 143	NT3	germanium 75
NT3	bromine 79	NT3	dysprosium 144	NT3	germanium 77
NT3	bromine 86	NT3	dysprosium 145	NT3	germanium 79
NT3	bromine 87	NT3	dysprosium 146	NT3	germanium 80
NT3	bromine 88	NT3	dysprosium 147	NT3	germanium 81
NT3	bromine 89	NT3	dysprosium 169	NT3	germanium 82
NT3	bromine 90	NT3	dysprosium 170	NT3	germanium 83
NT3	cadmium 120	NT3	dysprosium 171	NT3	germanium 84
NT3	cadmium 121	NT3	einsteinium 241	NT3	gold 176
NT3	cadmium 122	NT3	einsteinium 242	NT3	gold 177
NT3	cadmium 123	NT3	einsteinium 243	NT3	gold 178
NT3	cadmium 124	NT3	einsteinium 244	NT3	gold 179
NT3	cadmium 97	NT3	element 114 289	NT3	gold 180
NT3	cadmium 98	NT3	erbium 146	NT3	gold 181
NT3	cadmium 99	NT3	erbium 147	NT3	gold 182
NT3	calcium 50	NT3	erbium 148	NT3	gold 183
NT3	calcium 51	NT3	erbium 149	NT3	gold 184
NT3	calcium 52	NT3	erbium 150	NT3	gold 193
NT3	californium 237	NT3	erbium 151	NT3	gold 195
NT3	californium 239	NT3	erbium 152	NT3	gold 196
NT3	carbon 10	NT3	erbium 153	NT3	gold 197
NT3	carbon 15	NT3	erbium 167	NT3	gold 202
NT3	cerium 121	NT3	erbium 176	NT3	gold 203
NT3	cerium 122	NT3	erbium 177	NT3	gold 204
NT3	cerium 123	NT3	europium 135	NT3	gold 205
NT3	cerium 124	NT3	europium 136	NT3	hafnium 154
NT3	cerium 125	NT3	europium 138	NT3	hafnium 158
NT3	cerium 126	NT3	europium 139	NT3	hafnium 159
NT3	cerium 127	NT3	europium 140	NT3	hafnium 160
NT3	cerium 135	NT3	europium 141	NT3	hafnium 161
NT3	cerium 139	NT3	europium 142	NT3	hafnium 162

NT3 hafnium 163	NT3 lanthanum 120	NT3 niobium 102
NT3 hafnium 177	NT3 lanthanum 121	NT3 niobium 103
NT3 hafnium 178	NT3 lanthanum 122	NT3 niobium 104
NT3 hafnium 179	NT3 lanthanum 123	NT3 niobium 105
NT3 hafnium 187	NT3 lanthanum 124	NT3 niobium 106
NT3 hafnium 188	NT3 lanthanum 144	NT3 niobium 83
NT3 hassium 269	NT3 lanthanum 145	NT3 niobium 84
NT3 hassium 270	NT3 lanthanum 146	NT3 niobium 85
NT3 hassium 271	NT3 lanthanum 147	NT3 niobium 90
NT3 hassium 272	NT3 lanthanum 148	NT3 niobium 97
NT3 holmium 145	NT3 lanthanum 149	NT3 niobium 98
NT3 holmium 146	NT3 lawrencium 252	NT3 niobium 99
NT3 holmium 148	NT3 lawrencium 253	NT3 nitrogen 16
NT3 holmium 149	NT3 lawrencium 254	NT3 nitrogen 17
NT3 holmium 150	NT3 lawrencium 255	NT3 nobelium 252
NT3 holmium 151	NT3 lawrencium 256	NT3 nobelium 254
NT3 holmium 152	NT3 lawrencium 258	NT3 nobelium 256
NT3 holmium 159	NT3 lawrencium 259	NT3 nobelium 257
NT3 holmium 161	NT3 lead 185	NT3 osmium 168
NT3 holmium 163	NT3 lead 186	NT3 osmium 169
NT3 holmium 170	NT3 lead 187	NT3 osmium 170
NT3 holmium 171	NT3 lead 188	NT3 osmium 171
NT3 holmium 172	NT3 lead 189	NT3 osmium 172
NT3 holmium 173	NT3 lead 203	NT3 osmium 173
NT3 holmium 174	NT3 lutetium 154	NT3 osmium 174
NT3 holmium 175	NT3 lutetium 157	NT3 osmium 192
NT3 indium 101	NT3 lutetium 158	NT3 osmium 199
NT3 indium 102	NT3 lutetium 159	NT3 oxygen 19
NT3 indium 104	NT3 lutetium 160	NT3 oxygen 20
NT3 indium 105	NT3 lutetium 183	NT3 oxygen 21
NT3 indium 107	NT3 lutetium 184	NT3 oxygen 22
NT3 indium 116	NT3 magnesium 22	NT3 palladium 107
NT3 indium 118	NT3 magnesium 23	NT3 palladium 115
NT3 indium 120	NT3 magnesium 29	NT3 palladium 116
NT3 indium 121	NT3 manganese 58	NT3 palladium 117
NT3 indium 122	NT3 manganese 59	NT3 palladium 118
NT3 indium 123	NT3 manganese 60	NT3 palladium 93
NT3 indium 124	NT3 meitnerium 271	NT3 palladium 94
NT3 indium 125	NT3 meitnerium 272	NT3 palladium 95
NT3 indium 126	NT3 meitnerium 273	NT3 phosphorus 29
NT3 indium 127	NT3 meitnerium 274	NT3 phosphorus 34
NT3 indium 129	NT3 mendelevium 247	NT3 phosphorus 35
NT3 indium 98	NT3 mendelevium 248	NT3 phosphorus 36
NT3 indium 99	NT3 mendelevium 249	NT3 phosphorus 37
NT3 iodine 111	NT3 mendelevium 250	NT3 platinum 175
NT3 iodine 112	NT3 mercury 179	NT3 platinum 176
NT3 iodine 113	NT3 mercury 180	NT3 platinum 177
NT3 iodine 114	NT3 mercury 181	NT3 platinum 178
NT3 iodine 116	NT3 mercury 182	NT3 platinum 179
NT3 iodine 133	NT3 mercury 183	NT3 platinum 180
NT3 iodine 136	NT3 mercury 184	NT3 platinum 181
NT3 iodine 137	NT3 mercury 185	NT3 platinum 183
NT3 iodine 138	NT3 molybdenum 105	NT3 platinum 199
NT3 iodine 139	NT3 molybdenum 106	NT3 plutonium 229
NT3 iridium 170	NT3 molybdenum 107	NT3 polonium 195
NT3 iridium 171	NT3 molybdenum 108	NT3 polonium 196
NT3 iridium 172	NT3 molybdenum 110	NT3 polonium 197
NT3 iridium 173	NT3 molybdenum 86	NT3 polonium 203
NT3 iridium 174	NT3 molybdenum 87	NT3 polonium 207
NT3 iridium 175	NT3 neodymium 127	NT3 polonium 211
NT3 iridium 176	NT3 neodymium 129	NT3 polonium 212
NT3 iridium 177	NT3 neodymium 130	NT3 polonium 217
NT3 iridium 178	NT3 neodymium 131	NT3 potassium 37
NT3 iridium 191	NT3 neodymium 137	NT3 potassium 38
NT3 iridium 196	NT3 neodymium 153	NT3 potassium 47
NT3 iridium 198	NT3 neodymium 154	NT3 potassium 48
NT3 iron 52	NT3 neodymium 155	NT3 potassium 49
NT3 iron 63	NT3 neodymium 156	NT3 praseodymium 124
NT3 iron 64	NT3 neon 18	NT3 praseodymium 125
NT3 krypton 72	NT3 neon 19	NT3 praseodymium 126
NT3 krypton 73	NT3 neon 23	NT3 praseodymium 127
NT3 krypton 79	NT3 nickel 67	NT3 praseodymium 128
NT3 krypton 81	NT3 nickel 69	NT3 praseodymium 129
NT3 krypton 90	NT3 nickel 70	NT3 praseodymium 130
NT3 krypton 91	NT3 nickel 71	NT3 praseodymium 150
NT3 krypton 92	NT3 nickel 72	NT3 praseodymium 151
NT3 krypton 93	NT3 nickel 74	NT3 praseodymium 152
NT3 lanthanum 118	NT3 niobium 100	NT3 praseodymium 153
NT3 lanthanum 119	NT3 niobium 101	NT3 praseodymium 154

NT3	promethium 128	NT3	rutherfordium 259	NT3	tellurium 108
NT3	promethium 129	NT3	rutherfordium 262	NT3	tellurium 109
NT3	promethium 130	NT3	samarium 130	NT3	tellurium 110
NT3	promethium 131	NT3	samarium 131	NT3	tellurium 111
NT3	promethium 132	NT3	samarium 132	NT3	tellurium 135
NT3	promethium 133	NT3	samarium 133	NT3	tellurium 136
NT3	promethium 134	NT3	samarium 134	NT3	tellurium 137
NT3	promethium 135	NT3	samarium 135	NT3	tellurium 138
NT3	promethium 140	NT3	samarium 136	NT3	terbium 139
NT3	promethium 142	NT3	samarium 137	NT3	terbium 140
NT3	promethium 155	NT3	samarium 139	NT3	terbium 141
NT3	promethium 156	NT3	samarium 159	NT3	terbium 143
NT3	promethium 157	NT3	samarium 160	NT3	terbium 144
NT3	promethium 158	NT3	samarium 161	NT3	terbium 145
NT3	promethium 159	NT3	samarium 162	NT3	terbium 146
NT3	protactinium 225	NT3	scandium 42	NT3	terbium 151
NT3	radium 207	NT3	scandium 46	NT3	terbium 158
NT3	radium 208	NT3	scandium 51	NT3	terbium 166
NT3	radium 209	NT3	scandium 52	NT3	terbium 167
NT3	radium 210	NT3	seaborgium 265	NT3	terbium 168
NT3	radium 211	NT3	seaborgium 266	NT3	terbium 169
NT3	radium 212	NT3	seaborgium 268	NT3	terbium 170
NT3	radium 214	NT3	selenium 69	NT3	thallium 180
NT3	radium 221	NT3	selenium 77	NT3	thallium 181
NT3	radium 222	NT3	selenium 85	NT3	thallium 182
NT3	radium 233	NT3	selenium 86	NT3	thallium 184
NT3	radium 234	NT3	selenium 87	NT3	thallium 185
NT3	radon 200	NT3	selenium 88	NT3	thallium 186
NT3	radon 201	NT3	silicon 26	NT3	thallium 187
NT3	radon 202	NT3	silicon 27	NT3	thallium 195
NT3	radon 203	NT3	silicon 33	NT3	thallium 197
NT3	radon 219	NT3	silicon 34	NT3	thallium 207
NT3	radon 220	NT3	silver 101	NT3	thorium 215
NT3	radon 227	NT3	silver 103	NT3	thorium 223
NT3	radon 228	NT3	silver 107	NT3	thorium 224
NT3	rhenium 165	NT3	silver 109	NT3	thulium 151
NT3	rhenium 166	NT3	silver 110	NT3	thulium 152
NT3	rhenium 167	NT3	silver 114	NT3	thulium 153
NT3	rhenium 168	NT3	silver 115	NT3	thulium 154
NT3	rhenium 169	NT3	silver 116	NT3	thulium 155
NT3	rhenium 170	NT3	silver 117	NT3	thulium 156
NT3	rhenium 171	NT3	silver 118	NT3	thulium 162
NT3	rhenium 172	NT3	silver 119	NT3	thulium 178
NT3	rhenium 192	NT3	silver 120	NT3	thulium 179
NT3	rhodium 104	NT3	silver 122	NT3	tin 102
NT3	rhodium 105	NT3	silver 96	NT3	tin 103
NT3	rhodium 106	NT3	silver 97	NT3	tin 105
NT3	rhodium 108	NT3	silver 98	NT3	tin 128
NT3	rhodium 110	NT3	silver 99	NT3	tin 131
NT3	rhodium 111	NT3	sodium 21	NT3	tin 132
NT3	rhodium 112	NT3	sodium 25	NT3	tin 133
NT3	rhodium 113	NT3	sodium 26	NT3	tin 134
NT3	rhodium 114	NT3	strontium 76	NT3	titanium 53
NT3	rhodium 117	NT3	strontium 77	NT3	tungsten 160
NT3	rhodium 90	NT3	strontium 83	NT3	tungsten 162
NT3	rhodium 91	NT3	strontium 95	NT3	tungsten 163
NT3	rhodium 92	NT3	strontium 96	NT3	tungsten 164
NT3	rhodium 93	NT3	sulfur 30	NT3	tungsten 165
NT3	rhodium 94	NT3	sulfur 31	NT3	tungsten 166
NT3	roentgenium 280	NT3	sulfur 39	NT3	tungsten 167
NT3	rubidium 75	NT3	sulfur 40	NT3	tungsten 168
NT3	rubidium 76	NT3	tantalum 160	NT3	tungsten 169
NT3	rubidium 80	NT3	tantalum 161	NT3	tungsten 183
NT3	rubidium 91	NT3	tantalum 162	NT3	vanadium 43
NT3	rubidium 92	NT3	tantalum 163	NT3	vanadium 54
NT3	rubidium 93	NT3	tantalum 164	NT3	vanadium 55
NT3	rubidium 94	NT3	tantalum 165	NT3	xenon 112
NT3	ruthenium 109	NT3	tantalum 166	NT3	xenon 113
NT3	ruthenium 110	NT3	tantalum 188	NT3	xenon 114
NT3	ruthenium 111	NT3	technetium 100	NT3	xenon 115
NT3	ruthenium 112	NT3	technetium 102	NT3	xenon 116
NT3	ruthenium 113	NT3	technetium 103	NT3	xenon 125
NT3	ruthenium 89	NT3	technetium 106	NT3	xenon 139
NT3	ruthenium 90	NT3	technetium 107	NT3	xenon 140
NT3	ruthenium 91	NT3	technetium 108	NT3	xenon 141
NT3	ruthenium 93	NT3	technetium 109	NT3	xenon 142
NT3	rutherfordium 253	NT3	technetium 87	NT3	xenon 144
NT3	rutherfordium 255	NT3	technetium 88	NT3	ytterbium 153
NT3	rutherfordium 257	NT3	technetium 90	NT3	ytterbium 155

NT3	ytterbium 156	NT3	dubnium 268	NT3	americium 241
NT3	ytterbium 157	NT3	einsteinium 253	NT3	americium 242
NT3	ytterbium 169	NT3	einsteinium 254	NT3	americium 243
NT3	ytterbium 176	NT3	einsteinium 255	NT3	antimony 125
NT3	ytterbium 177	NT3	einsteinium 257	NT3	argon 39
NT3	yttrium 78	NT3	element 112 283	NT3	argon 42
NT3	yttrium 79	NT3	element 114 286	NT3	barium 133
NT3	yttrium 80	NT3	fermium 242	NT3	berkelium 247
NT3	yttrium 82	NT3	fermium 244	NT3	beryllium 10
NT3	yttrium 84	NT3	fermium 246	NT3	bismuth 207
NT3	yttrium 89	NT3	fermium 248	NT3	bismuth 208
NT3	yttrium 96	NT3	fermium 250	NT3	bismuth 210
NT3	yttrium 97	NT3	fermium 252	NT3	cadmium 109
NT3	yttrium 98	NT3	fermium 254	NT3	cadmium 113
NT3	yttrium 99	NT3	fermium 255	NT3	calcium 41
NT3	zinc 73	NT3	fermium 256	NT3	californium 249
NT3	zinc 75	NT3	fermium 257	NT3	californium 250
NT3	zinc 76	NT3	fermium 258	NT3	californium 251
NT3	zinc 77	NT3	fermium 259	NT3	californium 252
NT3	zinc 78	NT3	fermium 260	NT3	carbon 14
NT3	zinc 79	NT3	hassium 264	NT3	cesium 134
NT3	zirconium 100	NT3	hassium 265	NT3	cesium 135
NT3	zirconium 101	NT3	meitnerium 266	NT3	cesium 137
NT3	zirconium 102	NT3	mendelevium 245	NT3	chlorine 36
NT3	zirconium 103	NT3	mendelevium 246	NT3	cobalt 60
NT3	zirconium 104	NT3	mendelevium 259	NT3	curium 243
NT3	zirconium 83	NT3	neptunium 237	NT3	curium 244
NT3	zirconium 85	NT3	nobelium 250	NT3	curium 245
NT3	zirconium 87	NT3	nobelium 252	NT3	curium 246
NT3	zirconium 98	NT3	nobelium 254	NT3	curium 247
NT3	zirconium 99	NT3	nobelium 256	NT3	curium 248
NT3	zirconium 99	NT3	nobelium 258	NT3	curium 250
NT2	spontaneous fission radioisotopes	NT3	plutonium 235	NT3	dysprosium 154
NT3	americium 237	NT3	plutonium 236	NT3	einsteinium 252
NT3	americium 238	NT3	plutonium 237	NT3	europium 150
NT3	americium 239	NT3	plutonium 238	NT3	europium 152
NT3	americium 240	NT3	plutonium 239	NT3	europium 154
NT3	americium 241	NT3	plutonium 240	NT3	europium 155
NT3	americium 242	NT3	plutonium 241	NT3	gadolinium 148
NT3	americium 243	NT3	plutonium 242	NT3	gadolinium 150
NT3	americium 244	NT3	plutonium 243	NT3	gadolinium 152
NT3	americium 245	NT3	plutonium 244	NT3	hafnium 172
NT3	americium 246	NT3	rutherfordium 253	NT3	hafnium 174
NT3	berkelium 242	NT3	rutherfordium 254	NT3	hafnium 178
NT3	berkelium 243	NT3	rutherfordium 255	NT3	hafnium 182
NT3	berkelium 244	NT3	rutherfordium 256	NT3	holmium 163
NT3	berkelium 245	NT3	rutherfordium 257	NT3	holmium 166
NT3	berkelium 249	NT3	rutherfordium 258	NT3	indium 115
NT3	bohrium 261	NT3	rutherfordium 259	NT3	iodine 129
NT3	bohrium 262	NT3	rutherfordium 260	NT3	iridium 192
NT3	californium 237	NT3	rutherfordium 261	NT3	iron 55
NT3	californium 246	NT3	rutherfordium 262	NT3	iron 60
NT3	californium 248	NT3	rutherfordium 263	NT3	krypton 81
NT3	californium 249	NT3	rutherfordium 267	NT3	krypton 85
NT3	californium 250	NT3	seaborgium 258	NT3	lanthanum 137
NT3	californium 252	NT3	seaborgium 259	NT3	lanthanum 138
NT3	californium 254	NT3	seaborgium 260	NT3	lead 202
NT3	californium 256	NT3	seaborgium 261	NT3	lead 205
NT3	curium 240	NT3	seaborgium 262	NT3	lead 210
NT3	curium 241	NT3	seaborgium 263	NT3	lutetium 173
NT3	curium 242	NT3	seaborgium 264	NT3	lutetium 174
NT3	curium 243	NT3	seaborgium 265	NT3	lutetium 176
NT3	curium 244	NT3	seaborgium 266	NT3	manganese 53
NT3	curium 245	NT3	seaborgium 268	NT3	mercury 194
NT3	curium 246	NT3	seaborgium 270	NT3	molybdenum 93
NT3	curium 248	NT3	seaborgium 271	NT3	neodymium 144
NT3	curium 250	NT3	seaborgium 272	NT3	neptunium 235
NT3	darmstadtium 272	NT3	seaborgium 273	NT3	neptunium 236
NT3	darmstadtium 279	NT3	thorium 230	NT3	neptunium 237
NT3	darmstadtium 281	NT3	thorium 232	NT3	nickel 59
NT3	dubnium 255	NT3	uranium 232	NT3	nickel 63
NT3	dubnium 256	NT3	uranium 233	NT3	niobium 91
NT3	dubnium 257	NT3	uranium 234	NT3	niobium 92
NT3	dubnium 258	NT3	uranium 235	NT3	niobium 93
NT3	dubnium 259	NT3	uranium 236	NT3	niobium 94
NT3	dubnium 260	NT3	uranium 238	NT3	osmium 186
NT3	dubnium 261	NT2	years living radioisotopes	NT3	osmium 194
NT3	dubnium 262	NT3	actinium 227	NT3	palladium 107
NT3	dubnium 263	NT3	aluminium 26	NT3	platinum 190
NT3	dubnium 267				

NT3	platinum 193	NT2	radon 214	NT2	rhodium 92
NT3	plutonium 236	NT2	radon 215	NT2	rhodium 93
NT3	plutonium 238	NT2	radon 216	NT2	rhodium 94
NT3	plutonium 239	NT2	radon 217	NT2	rhodium 95
NT3	plutonium 240	NT2	radon 218	NT2	rhodium 96
NT3	plutonium 241	NT2	radon 219	NT2	rhodium 97
NT3	plutonium 242	NT2	radon 220	NT2	rhodium 98
NT3	plutonium 244	NT2	radon 221	NT2	rhodium 99
NT3	polonium 208	NT2	radon 222	NT1	roentgenium isotopes
NT3	polonium 209	NT2	radon 223	NT2	roentgenium 272
NT3	potassium 40	NT2	radon 224	NT2	roentgenium 273
NT3	promethium 144	NT2	radon 225	NT2	roentgenium 274
NT3	promethium 145	NT2	radon 226	NT2	roentgenium 279
NT3	promethium 146	NT2	radon 227	NT2	roentgenium 280
NT3	promethium 147	NT2	radon 228	NT1	rubidium isotopes
NT3	protactinium 231	NT1	rhenium isotopes	NT2	rubidium 100
NT3	radium 226	NT2	rhenium 159	NT2	rubidium 101
NT3	radium 228	NT2	rhenium 160	NT2	rubidium 102
NT3	rhenium 186	NT2	rhenium 161	NT2	rubidium 103
NT3	rhenium 187	NT2	rhenium 162	NT2	rubidium 71
NT3	rhodium 101	NT2	rhenium 163	NT2	rubidium 72
NT3	rubidium 87	NT2	rhenium 164	NT2	rubidium 73
NT3	ruthenium 106	NT2	rhenium 165	NT2	rubidium 74
NT3	samarium 146	NT2	rhenium 166	NT2	rubidium 75
NT3	samarium 147	NT2	rhenium 167	NT2	rubidium 76
NT3	samarium 148	NT2	rhenium 168	NT2	rubidium 77
NT3	samarium 151	NT2	rhenium 169	NT2	rubidium 78
NT3	selenium 79	NT2	rhenium 170	NT2	rubidium 79
NT3	silicon 32	NT2	rhenium 171	NT2	rubidium 80
NT3	silver 108	NT2	rhenium 172	NT2	rubidium 81
NT3	sodium 22	NT2	rhenium 173	NT2	rubidium 82
NT3	strontium 90	NT2	rhenium 174	NT2	rubidium 83
NT3	tantalum 179	NT2	rhenium 175	NT2	rubidium 84
NT3	technetium 97	NT2	rhenium 176	NT2	rubidium 85
NT3	technetium 98	NT2	rhenium 177	NT2	rubidium 86
NT3	technetium 99	NT2	rhenium 178	NT2	rubidium 87
NT3	tellurium 123	NT2	rhenium 179	NT2	rubidium 88
NT3	terbium 157	NT2	rhenium 180	NT2	rubidium 89
NT3	terbium 158	NT2	rhenium 181	NT2	rubidium 90
NT3	thallium 204	NT2	rhenium 182	NT2	rubidium 91
NT3	thorium 228	NT2	rhenium 183	NT2	rubidium 92
NT3	thorium 229	NT2	rhenium 184	NT2	rubidium 93
NT3	thorium 230	NT2	rhenium 185	NT2	rubidium 94
NT3	thorium 232	NT2	rhenium 186	NT2	rubidium 95
NT3	thulium 171	NT2	rhenium 187	NT2	rubidium 96
NT3	tin 121	NT2	rhenium 188	NT2	rubidium 97
NT3	tin 126	NT2	rhenium 189	NT2	rubidium 98
NT3	titanium 44	NT2	rhenium 190	NT2	rubidium 99
NT3	tritium	NT2	rhenium 191	NT1	ruthenium isotopes
NT3	uranium 232	NT2	rhenium 192	NT2	ruthenium 100
NT3	uranium 233	NT2	rhenium 193	NT2	ruthenium 101
NT3	uranium 234	NT2	rhenium 194	NT2	ruthenium 102
NT3	uranium 235	NT1	rhodium isotopes	NT2	ruthenium 103
NT3	uranium 236	NT2	rhodium 100	NT2	ruthenium 104
NT3	uranium 238	NT2	rhodium 101	NT2	ruthenium 105
NT3	vanadium 50	NT2	rhodium 102	NT2	ruthenium 106
NT3	zirconium 93	NT2	rhodium 103	NT2	ruthenium 107
NT1	radon isotopes	NT2	rhodium 104	NT2	ruthenium 108
NT2	radon 193	NT2	rhodium 105	NT2	ruthenium 109
NT2	radon 194	NT2	rhodium 106	NT2	ruthenium 110
NT2	radon 195	NT2	rhodium 107	NT2	ruthenium 111
NT2	radon 196	NT2	rhodium 108	NT2	ruthenium 112
NT2	radon 197	NT2	rhodium 109	NT2	ruthenium 113
NT2	radon 198	NT2	rhodium 110	NT2	ruthenium 114
NT2	radon 199	NT2	rhodium 111	NT2	ruthenium 115
NT2	radon 200	NT2	rhodium 112	NT2	ruthenium 116
NT2	radon 201	NT2	rhodium 113	NT2	ruthenium 117
NT2	radon 202	NT2	rhodium 114	NT2	ruthenium 118
NT2	radon 203	NT2	rhodium 115	NT2	ruthenium 119
NT2	radon 204	NT2	rhodium 116	NT2	ruthenium 120
NT2	radon 205	NT2	rhodium 117	NT2	ruthenium 87
NT2	radon 206	NT2	rhodium 118	NT2	ruthenium 88
NT2	radon 207	NT2	rhodium 119	NT2	ruthenium 89
NT2	radon 208	NT2	rhodium 120	NT2	ruthenium 90
NT2	radon 209	NT2	rhodium 121	NT2	ruthenium 91
NT2	radon 210	NT2	rhodium 122	NT2	ruthenium 92
NT2	radon 211	NT2	rhodium 89	NT2	ruthenium 93
NT2	radon 212	NT2	rhodium 90	NT2	ruthenium 94
NT2	radon 213	NT2	rhodium 91	NT2	ruthenium 95

NT2	ruthenium 96	NT2	scandium 54	NT2	silver 104
NT2	ruthenium 97	NT2	scandium 55	NT2	silver 105
NT2	ruthenium 98	NT2	scandium 56	NT2	silver 106
NT2	ruthenium 99	NT2	scandium 57	NT2	silver 107
NT1	rutherfordium isotopes	NT2	scandium 58	NT2	silver 108
NT2	rutherfordium 253	NT2	scandium 59	NT2	silver 109
NT2	rutherfordium 254	NT2	scandium 60	NT2	silver 110
NT2	rutherfordium 255	NT1	seaborgium isotopes	NT2	silver 111
NT2	rutherfordium 256	NT2	seaborgium 258	NT2	silver 112
NT2	rutherfordium 257	NT2	seaborgium 259	NT2	silver 113
NT2	rutherfordium 258	NT2	seaborgium 260	NT2	silver 114
NT2	rutherfordium 259	NT2	seaborgium 261	NT2	silver 115
NT2	rutherfordium 260	NT2	seaborgium 262	NT2	silver 116
NT2	rutherfordium 261	NT2	seaborgium 263	NT2	silver 117
NT2	rutherfordium 262	NT2	seaborgium 264	NT2	silver 118
NT2	rutherfordium 263	NT2	seaborgium 265	NT2	silver 119
NT2	rutherfordium 264	NT2	seaborgium 266	NT2	silver 120
NT2	rutherfordium 265	NT2	seaborgium 268	NT2	silver 121
NT2	rutherfordium 266	NT2	seaborgium 270	NT2	silver 122
NT2	rutherfordium 267	NT2	seaborgium 271	NT2	silver 123
NT2	rutherfordium 268	NT2	seaborgium 272	NT2	silver 124
NT1	samarium isotopes	NT2	seaborgium 273	NT2	silver 125
NT2	samarium 128	NT1	selenium isotopes	NT2	silver 126
NT2	samarium 129	NT2	selenium 64	NT2	silver 127
NT2	samarium 130	NT2	selenium 65	NT2	silver 128
NT2	samarium 131	NT2	selenium 66	NT2	silver 129
NT2	samarium 132	NT2	selenium 67	NT2	silver 130
NT2	samarium 133	NT2	selenium 68	NT2	silver 93
NT2	samarium 134	NT2	selenium 69	NT2	silver 94
NT2	samarium 135	NT2	selenium 70	NT2	silver 95
NT2	samarium 136	NT2	selenium 71	NT2	silver 96
NT2	samarium 137	NT2	selenium 72	NT2	silver 97
NT2	samarium 138	NT2	selenium 73	NT2	silver 98
NT2	samarium 139	NT2	selenium 74	NT2	silver 99
NT2	samarium 140	NT2	selenium 75	NT1	sodium isotopes
NT2	samarium 141	NT2	selenium 76	NT2	sodium 18
NT2	samarium 142	NT2	selenium 77	NT2	sodium 19
NT2	samarium 143	NT2	selenium 78	NT2	sodium 20
NT2	samarium 144	NT2	selenium 79	NT2	sodium 21
NT2	samarium 145	NT2	selenium 80	NT2	sodium 22
NT2	samarium 146	NT2	selenium 81	NT2	sodium 23
NT2	samarium 147	NT2	selenium 82	NT2	sodium 24
NT2	samarium 148	NT2	selenium 83	NT2	sodium 25
NT2	samarium 149	NT2	selenium 84	NT2	sodium 26
NT2	samarium 150	NT2	selenium 85	NT2	sodium 27
NT2	samarium 151	NT2	selenium 86	NT2	sodium 28
NT2	samarium 152	NT2	selenium 87	NT2	sodium 29
NT2	samarium 153	NT2	selenium 88	NT2	sodium 30
NT2	samarium 154	NT2	selenium 89	NT2	sodium 31
NT2	samarium 155	NT2	selenium 91	NT2	sodium 32
NT2	samarium 156	NT1	silicon isotopes	NT2	sodium 33
NT2	samarium 157	NT2	silicon 22	NT2	sodium 34
NT2	samarium 158	NT2	silicon 23	NT2	sodium 35
NT2	samarium 159	NT2	silicon 24	NT2	sodium 37
NT2	samarium 160	NT2	silicon 25	NT1	stable isotopes
NT2	samarium 161	NT2	silicon 26	NT2	aluminium 27
NT2	samarium 162	NT2	silicon 27	NT2	antimony 121
NT2	samarium 163	NT2	silicon 28	NT2	antimony 123
NT2	samarium 164	NT2	silicon 29	NT2	argon 36
NT2	samarium 165	NT2	silicon 30	NT2	argon 38
NT1	scandium isotopes	NT2	silicon 31	NT2	argon 40
NT2	scandium 36	NT2	silicon 32	NT2	arsenic 75
NT2	scandium 37	NT2	silicon 33	NT2	barium 130
NT2	scandium 38	NT2	silicon 34	NT2	barium 132
NT2	scandium 39	NT2	silicon 35	NT2	barium 134
NT2	scandium 40	NT2	silicon 36	NT2	barium 135
NT2	scandium 41	NT2	silicon 37	NT2	barium 136
NT2	scandium 42	NT2	silicon 38	NT2	barium 137
NT2	scandium 43	NT2	silicon 39	NT2	barium 138
NT2	scandium 44	NT2	silicon 40	NT2	beryllium 9
NT2	scandium 45	NT2	silicon 41	NT2	bismuth 209
NT2	scandium 46	NT2	silicon 42	NT2	boron 10
NT2	scandium 47	NT2	silicon 43	NT2	boron 11
NT2	scandium 48	NT2	silicon 44	NT2	bromine 79
NT2	scandium 49	NT1	silver isotopes	NT2	bromine 81
NT2	scandium 50	NT2	silver 100	NT2	cadmium 106
NT2	scandium 51	NT2	silver 101	NT2	cadmium 108
NT2	scandium 52	NT2	silver 102	NT2	cadmium 110
NT2	scandium 53	NT2	silver 103	NT2	cadmium 111

NT2	cadmium 112	NT2	krypton 78	NT2	ruthenium 101
NT2	cadmium 113	NT2	krypton 80	NT2	ruthenium 102
NT2	cadmium 114	NT2	krypton 82	NT2	ruthenium 104
NT2	cadmium 116	NT2	krypton 83	NT2	ruthenium 96
NT2	calcium 40	NT2	krypton 84	NT2	ruthenium 98
NT2	calcium 42	NT2	krypton 86	NT2	ruthenium 99
NT2	calcium 43	NT2	lanthanum 139	NT2	samarium 144
NT2	calcium 44	NT2	lead 204	NT2	samarium 148
NT2	calcium 46	NT2	lead 206	NT2	samarium 149
NT2	calcium 48	NT2	lead 207	NT2	samarium 150
NT2	carbon 12	NT2	lead 208	NT2	samarium 152
NT2	carbon 13	NT2	lithium 6	NT2	samarium 154
NT2	cerium 136	NT2	lithium 7	NT2	scandium 45
NT2	cerium 138	NT2	lutetium 175	NT2	selenium 74
NT2	cerium 140	NT2	magnesium 24	NT2	selenium 76
NT2	cerium 142	NT2	magnesium 25	NT2	selenium 77
NT2	cesium 133	NT2	magnesium 26	NT2	selenium 78
NT2	chlorine 35	NT2	manganese 55	NT2	selenium 80
NT2	chlorine 37	NT2	mercury 196	NT2	selenium 82
NT2	chromium 50	NT2	mercury 198	NT2	silicon 28
NT2	chromium 52	NT2	mercury 199	NT2	silicon 29
NT2	chromium 53	NT2	mercury 200	NT2	silicon 30
NT2	chromium 54	NT2	mercury 201	NT2	silver 107
NT2	cobalt 59	NT2	mercury 202	NT2	silver 109
NT2	copper 63	NT2	mercury 204	NT2	sodium 23
NT2	copper 65	NT2	molybdenum 100	NT2	strontium 84
NT2	deuterium	NT2	molybdenum 92	NT2	strontium 86
NT2	dysprosium 156	NT2	molybdenum 94	NT2	strontium 87
NT2	dysprosium 158	NT2	molybdenum 95	NT2	strontium 88
NT2	dysprosium 160	NT2	molybdenum 96	NT2	sulfur 32
NT2	dysprosium 161	NT2	molybdenum 97	NT2	sulfur 33
NT2	dysprosium 162	NT2	molybdenum 98	NT2	sulfur 34
NT2	dysprosium 163	NT2	neodymium 142	NT2	sulfur 36
NT2	dysprosium 164	NT2	neodymium 143	NT2	tantalum 181
NT2	erbium 162	NT2	neodymium 145	NT2	tellurium 120
NT2	erbium 164	NT2	neodymium 146	NT2	tellurium 122
NT2	erbium 166	NT2	neodymium 148	NT2	tellurium 123
NT2	erbium 167	NT2	neodymium 150	NT2	tellurium 124
NT2	erbium 168	NT2	neon 20	NT2	tellurium 125
NT2	erbium 170	NT2	neon 21	NT2	tellurium 126
NT2	europium 151	NT2	neon 22	NT2	tellurium 128
NT2	europium 153	NT2	nickel 58	NT2	tellurium 130
NT2	fluorine 19	NT2	nickel 60	NT2	terbium 159
NT2	gadolinium 154	NT2	nickel 61	NT2	thallium 203
NT2	gadolinium 155	NT2	nickel 62	NT2	thallium 205
NT2	gadolinium 156	NT2	nickel 64	NT2	thulium 169
NT2	gadolinium 157	NT2	niobium 93	NT2	tin 112
NT2	gadolinium 158	NT2	nitrogen 14	NT2	tin 114
NT2	gadolinium 160	NT2	nitrogen 15	NT2	tin 115
NT2	gallium 69	NT2	osmium 184	NT2	tin 116
NT2	gallium 71	NT2	osmium 186	NT2	tin 117
NT2	germanium 70	NT2	osmium 187	NT2	tin 118
NT2	germanium 72	NT2	osmium 188	NT2	tin 119
NT2	germanium 73	NT2	osmium 189	NT2	tin 120
NT2	germanium 74	NT2	osmium 190	NT2	tin 122
NT2	germanium 76	NT2	osmium 192	NT2	tin 124
NT2	gold 197	NT2	oxygen 16	NT2	titanium 46
NT2	hafnium 176	NT2	oxygen 17	NT2	titanium 47
NT2	hafnium 177	NT2	oxygen 18	NT2	titanium 48
NT2	hafnium 178	NT2	palladium 102	NT2	titanium 49
NT2	hafnium 179	NT2	palladium 104	NT2	titanium 50
NT2	hafnium 180	NT2	palladium 105	NT2	tungsten 180
NT2	helium 3	NT2	palladium 106	NT2	tungsten 182
NT3	helium 3 a	NT2	palladium 108	NT2	tungsten 183
NT3	helium 3 a1	NT2	palladium 110	NT2	tungsten 184
NT3	helium 3 b	NT2	phosphorus 31	NT2	tungsten 186
NT2	helium 4	NT2	platinum 192	NT2	vanadium 51
NT3	helium i	NT2	platinum 194	NT2	xenon 124
NT3	helium ii	NT2	platinum 195	NT2	xenon 126
NT2	holmium 165	NT2	platinum 196	NT2	xenon 128
NT2	hydrogen 1	NT2	platinum 198	NT2	xenon 129
NT2	indium 113	NT2	potassium 39	NT2	xenon 130
NT2	iodine 127	NT2	potassium 41	NT2	xenon 131
NT2	iridium 191	NT2	praseodymium 141	NT2	xenon 132
NT2	iridium 193	NT2	rhenium 185	NT2	xenon 134
NT2	iron 54	NT2	rhenium 187	NT2	xenon 136
NT2	iron 56	NT2	rhodium 103	NT2	ytterbium 168
NT2	iron 57	NT2	rubidium 85	NT2	ytterbium 170
NT2	iron 58	NT2	ruthenium 100	NT2	ytterbium 171

NT2	ytterbium 172	NT2	technetium 100	NT2	terbium 140
NT2	ytterbium 173	NT2	technetium 101	NT2	terbium 141
NT2	ytterbium 174	NT2	technetium 102	NT2	terbium 142
NT2	ytterbium 176	NT2	technetium 103	NT2	terbium 143
NT2	yttrium 89	NT2	technetium 104	NT2	terbium 144
NT2	zinc 64	NT2	technetium 105	NT2	terbium 145
NT2	zinc 66	NT2	technetium 106	NT2	terbium 146
NT2	zinc 67	NT2	technetium 107	NT2	terbium 147
NT2	zinc 68	NT2	technetium 108	NT2	terbium 148
NT2	zinc 70	NT2	technetium 109	NT2	terbium 149
NT2	zirconium 90	NT2	technetium 110	NT2	terbium 150
NT2	zirconium 91	NT2	technetium 111	NT2	terbium 151
NT2	zirconium 92	NT2	technetium 112	NT2	terbium 152
NT2	zirconium 94	NT2	technetium 113	NT2	terbium 153
NT2	zirconium 96	NT2	technetium 114	NT2	terbium 154
NT1	sulfur isotopes	NT2	technetium 115	NT2	terbium 155
NT2	sulfur 24	NT2	technetium 116	NT2	terbium 156
NT2	sulfur 26	NT2	technetium 117	NT2	terbium 157
NT2	sulfur 27	NT2	technetium 118	NT2	terbium 158
NT2	sulfur 28	NT2	technetium 85	NT2	terbium 159
NT2	sulfur 29	NT2	technetium 86	NT2	terbium 160
NT2	sulfur 30	NT2	technetium 87	NT2	terbium 161
NT2	sulfur 31	NT2	technetium 88	NT2	terbium 162
NT2	sulfur 32	NT2	technetium 89	NT2	terbium 163
NT2	sulfur 33	NT2	technetium 90	NT2	terbium 164
NT2	sulfur 34	NT2	technetium 91	NT2	terbium 165
NT2	sulfur 35	NT2	technetium 92	NT2	terbium 166
NT2	sulfur 36	NT2	technetium 93	NT2	terbium 167
NT2	sulfur 37	NT2	technetium 94	NT2	terbium 168
NT2	sulfur 38	NT2	technetium 95	NT2	terbium 169
NT2	sulfur 39	NT2	technetium 96	NT2	terbium 170
NT2	sulfur 40	NT2	technetium 97	NT2	terbium 171
NT2	sulfur 41	NT2	technetium 98	NT1	thallium isotopes
NT2	sulfur 42	NT2	technetium 99	NT2	thallium 176
NT2	sulfur 43	NT1	tellurium isotopes	NT2	thallium 177
NT2	sulfur 44	NT2	tellurium 105	NT2	thallium 178
NT2	sulfur 45	NT2	tellurium 106	NT2	thallium 179
NT2	sulfur 46	NT2	tellurium 107	NT2	thallium 180
NT2	sulfur 47	NT2	tellurium 108	NT2	thallium 181
NT2	sulfur 48	NT2	tellurium 109	NT2	thallium 182
NT2	sulfur 49	NT2	tellurium 110	NT2	thallium 183
NT1	tantalum isotopes	NT2	tellurium 111	NT2	thallium 184
NT2	tantalum 155	NT2	tellurium 112	NT2	thallium 185
NT2	tantalum 156	NT2	tellurium 113	NT2	thallium 186
NT2	tantalum 157	NT2	tellurium 114	NT2	thallium 187
NT2	tantalum 158	NT2	tellurium 115	NT2	thallium 188
NT2	tantalum 159	NT2	tellurium 116	NT2	thallium 189
NT2	tantalum 160	NT2	tellurium 117	NT2	thallium 190
NT2	tantalum 161	NT2	tellurium 118	NT2	thallium 191
NT2	tantalum 162	NT2	tellurium 119	NT2	thallium 192
NT2	tantalum 163	NT2	tellurium 120	NT2	thallium 193
NT2	tantalum 164	NT2	tellurium 121	NT2	thallium 194
NT2	tantalum 165	NT2	tellurium 122	NT2	thallium 195
NT2	tantalum 166	NT2	tellurium 123	NT2	thallium 196
NT2	tantalum 167	NT2	tellurium 124	NT2	thallium 197
NT2	tantalum 168	NT2	tellurium 125	NT2	thallium 198
NT2	tantalum 169	NT2	tellurium 126	NT2	thallium 199
NT2	tantalum 170	NT2	tellurium 127	NT2	thallium 200
NT2	tantalum 171	NT2	tellurium 128	NT2	thallium 201
NT2	tantalum 172	NT2	tellurium 129	NT2	thallium 202
NT2	tantalum 173	NT2	tellurium 130	NT2	thallium 203
NT2	tantalum 174	NT2	tellurium 131	NT2	thallium 204
NT2	tantalum 175	NT2	tellurium 132	NT2	thallium 205
NT2	tantalum 176	NT2	tellurium 133	NT2	thallium 206
NT2	tantalum 177	NT2	tellurium 134	NT2	thallium 207
NT2	tantalum 178	NT2	tellurium 135	NT2	thallium 208
NT2	tantalum 179	NT2	tellurium 136	NT2	thallium 209
NT2	tantalum 180	NT2	tellurium 137	NT2	thallium 210
NT2	tantalum 181	NT2	tellurium 138	NT2	thallium 211
NT2	tantalum 182	NT2	tellurium 139	NT2	thallium 212
NT2	tantalum 183	NT2	tellurium 140	NT1	thorium isotopes
NT2	tantalum 184	NT2	tellurium 141	NT2	thorium 208
NT2	tantalum 185	NT2	tellurium 142	NT2	thorium 209
NT2	tantalum 186	NT1	terbium isotopes	NT2	thorium 210
NT2	tantalum 187	NT2	terbium 135	NT2	thorium 211
NT2	tantalum 188	NT2	terbium 136	NT2	thorium 212
NT2	tantalum 189	NT2	terbium 137	NT2	thorium 213
NT2	tantalum 190	NT2	terbium 138	NT2	thorium 214
NT1	technetium isotopes	NT2	terbium 139	NT2	thorium 215



NT2	thorium 216	NT2	tin 118	NT2	tungsten 188
NT2	thorium 217	NT2	tin 119	NT2	tungsten 189
NT2	thorium 218	NT2	tin 120	NT2	tungsten 190
NT2	thorium 219	NT2	tin 121	NT2	tungsten 191
NT2	thorium 220	NT2	tin 122	NT2	tungsten 192
NT2	thorium 221	NT2	tin 123	NT1	uranium isotopes
NT2	thorium 222	NT2	tin 124	NT2	uranium 217
NT2	thorium 223	NT2	tin 125	NT2	uranium 218
NT2	thorium 224	NT2	tin 126	NT2	uranium 219
NT2	thorium 225	NT2	tin 127	NT2	uranium 220
NT2	thorium 226	NT2	tin 128	NT2	uranium 221
NT2	thorium 227	NT2	tin 129	NT2	uranium 222
NT2	thorium 228	NT2	tin 130	NT2	uranium 223
NT2	thorium 229	NT2	tin 131	NT2	uranium 224
NT2	thorium 230	NT2	tin 132	NT2	uranium 225
NT2	thorium 231	NT2	tin 133	NT2	uranium 226
NT2	thorium 232	NT2	tin 134	NT2	uranium 227
NT2	thorium 233	NT2	tin 135	NT2	uranium 228
NT2	thorium 234	NT2	tin 136	NT2	uranium 229
NT2	thorium 235	NT2	tin 137	NT2	uranium 230
NT2	thorium 236	NT2	tin 99	NT2	uranium 231
NT2	thorium 237	NT1	titanium isotopes	NT2	uranium 232
NT2	thorium 238	NT2	titanium 38	NT2	uranium 233
NT1	thulium isotopes	NT2	titanium 39	NT2	uranium 234
NT2	thulium 144	NT2	titanium 40	NT2	uranium 235
NT2	thulium 145	NT2	titanium 41	NT2	uranium 236
NT2	thulium 146	NT2	titanium 42	NT2	uranium 237
NT2	thulium 147	NT2	titanium 43	NT2	uranium 238
NT2	thulium 148	NT2	titanium 44	NT2	uranium 239
NT2	thulium 149	NT2	titanium 45	NT2	uranium 240
NT2	thulium 150	NT2	titanium 46	NT2	uranium 241
NT2	thulium 151	NT2	titanium 47	NT2	uranium 242
NT2	thulium 152	NT2	titanium 48	NT1	vanadium isotopes
NT2	thulium 153	NT2	titanium 49	NT2	vanadium 40
NT2	thulium 154	NT2	titanium 50	NT2	vanadium 41
NT2	thulium 155	NT2	titanium 51	NT2	vanadium 42
NT2	thulium 156	NT2	titanium 52	NT2	vanadium 43
NT2	thulium 157	NT2	titanium 53	NT2	vanadium 44
NT2	thulium 158	NT2	titanium 54	NT2	vanadium 45
NT2	thulium 159	NT2	titanium 55	NT2	vanadium 46
NT2	thulium 160	NT2	titanium 56	NT2	vanadium 47
NT2	thulium 161	NT2	titanium 57	NT2	vanadium 48
NT2	thulium 162	NT2	titanium 58	NT2	vanadium 49
NT2	thulium 163	NT2	titanium 59	NT2	vanadium 50
NT2	thulium 164	NT2	titanium 60	NT2	vanadium 51
NT2	thulium 165	NT2	titanium 61	NT2	vanadium 52
NT2	thulium 166	NT2	titanium 62	NT2	vanadium 53
NT2	thulium 167	NT2	titanium 63	NT2	vanadium 54
NT2	thulium 168	NT1	tungsten isotopes	NT2	vanadium 55
NT2	thulium 169	NT2	tungsten 158	NT2	vanadium 56
NT2	thulium 170	NT2	tungsten 159	NT2	vanadium 57
NT2	thulium 171	NT2	tungsten 160	NT2	vanadium 58
NT2	thulium 172	NT2	tungsten 161	NT2	vanadium 59
NT2	thulium 173	NT2	tungsten 162	NT2	vanadium 60
NT2	thulium 174	NT2	tungsten 163	NT2	vanadium 61
NT2	thulium 175	NT2	tungsten 164	NT2	vanadium 62
NT2	thulium 176	NT2	tungsten 165	NT2	vanadium 63
NT2	thulium 177	NT2	tungsten 166	NT2	vanadium 64
NT2	thulium 178	NT2	tungsten 167	NT2	vanadium 65
NT2	thulium 179	NT2	tungsten 168	NT1	xenon isotopes
NT1	tin isotopes	NT2	tungsten 169	NT2	xenon 109
NT2	tin 100	NT2	tungsten 170	NT2	xenon 110
NT2	tin 101	NT2	tungsten 171	NT1	xenon 111
NT2	tin 102	NT2	tungsten 172	NT2	xenon 112
NT2	tin 103	NT2	tungsten 173	NT2	xenon 113
NT2	tin 104	NT2	tungsten 174	NT2	xenon 114
NT2	tin 105	NT2	tungsten 175	NT2	xenon 115
NT2	tin 106	NT2	tungsten 176	NT2	xenon 116
NT2	tin 107	NT2	tungsten 177	NT2	xenon 117
NT2	tin 108	NT2	tungsten 178	NT2	xenon 118
NT2	tin 109	NT2	tungsten 179	NT2	xenon 119
NT2	tin 110	NT2	tungsten 180	NT2	xenon 120
NT2	tin 111	NT2	tungsten 181	NT2	xenon 121
NT2	tin 112	NT2	tungsten 182	NT2	xenon 122
NT2	tin 113	NT2	tungsten 183	NT2	xenon 123
NT2	tin 114	NT2	tungsten 184	NT2	xenon 124
NT2	tin 115	NT2	tungsten 185	NT2	xenon 125
NT2	tin 116	NT2	tungsten 186	NT2	xenon 126
NT2	tin 117	NT2	tungsten 187	NT2	xenon 127

NT2 xenon 128  
 NT2 xenon 129  
 NT2 xenon 130  
 NT2 xenon 131  
 NT2 xenon 132  
 NT2 xenon 133  
 NT2 xenon 134  
 NT2 xenon 135  
 NT2 xenon 136  
 NT2 xenon 137  
 NT2 xenon 138  
 NT2 xenon 139  
 NT2 xenon 140  
 NT2 xenon 141  
 NT2 xenon 142  
 NT2 xenon 143  
 NT2 xenon 144  
 NT2 xenon 145  
 NT2 xenon 146  
 NT2 xenon 147  
 NT1 ytterbium isotopes  
 NT2 ytterbium 148  
 NT2 ytterbium 149  
 NT2 ytterbium 150  
 NT2 ytterbium 151  
 NT2 ytterbium 152  
 NT2 ytterbium 153  
 NT2 ytterbium 154  
 NT2 ytterbium 155  
 NT2 ytterbium 156  
 NT2 ytterbium 157  
 NT2 ytterbium 158  
 NT2 ytterbium 159  
 NT2 ytterbium 160  
 NT2 ytterbium 161  
 NT2 ytterbium 162  
 NT2 ytterbium 163  
 NT2 ytterbium 164  
 NT2 ytterbium 165  
 NT2 ytterbium 166  
 NT2 ytterbium 167  
 NT2 ytterbium 168  
 NT2 ytterbium 169  
 NT2 ytterbium 170  
 NT2 ytterbium 171  
 NT2 ytterbium 172  
 NT2 ytterbium 173  
 NT2 ytterbium 174  
 NT2 ytterbium 175  
 NT2 ytterbium 176  
 NT2 ytterbium 177  
 NT2 ytterbium 178  
 NT2 ytterbium 179  
 NT2 ytterbium 180  
 NT2 ytterbium 181  
 NT1 yttrium isotopes  
 NT2 yttrium 100  
 NT2 yttrium 101  
 NT2 yttrium 102  
 NT2 yttrium 103  
 NT2 yttrium 104  
 NT2 yttrium 105  
 NT2 yttrium 106  
 NT2 yttrium 107  
 NT2 yttrium 108  
 NT2 yttrium 76  
 NT2 yttrium 77  
 NT2 yttrium 78  
 NT2 yttrium 79  
 NT2 yttrium 80  
 NT2 yttrium 81  
 NT2 yttrium 82  
 NT2 yttrium 83  
 NT2 yttrium 84  
 NT2 yttrium 85  
 NT2 yttrium 86  
 NT2 yttrium 87  
 NT2 yttrium 88  
 NT2 yttrium 89

NT2 yttrium 90  
 NT2 yttrium 91  
 NT2 yttrium 92  
 NT2 yttrium 93  
 NT2 yttrium 94  
 NT2 yttrium 95  
 NT2 yttrium 96  
 NT2 yttrium 97  
 NT2 yttrium 98  
 NT2 yttrium 99  
 NT1 zinc isotopes  
 NT2 zinc 54  
 NT2 zinc 55  
 NT2 zinc 56  
 NT2 zinc 57  
 NT2 zinc 58  
 NT2 zinc 59  
 NT2 zinc 60  
 NT2 zinc 61  
 NT2 zinc 62  
 NT2 zinc 63  
 NT2 zinc 64  
 NT2 zinc 65  
 NT2 zinc 66  
 NT2 zinc 67  
 NT2 zinc 68  
 NT2 zinc 69  
 NT2 zinc 70  
 NT2 zinc 71  
 NT2 zinc 72  
 NT2 zinc 73  
 NT2 zinc 74  
 NT2 zinc 75  
 NT2 zinc 76  
 NT2 zinc 77  
 NT2 zinc 78  
 NT2 zinc 79  
 NT2 zinc 80  
 NT2 zinc 81  
 NT2 zinc 82  
 NT2 zinc 83  
 NT1 zirconium isotopes  
 NT2 zirconium 100  
 NT2 zirconium 101  
 NT2 zirconium 102  
 NT2 zirconium 103  
 NT2 zirconium 104  
 NT2 zirconium 105  
 NT2 zirconium 106  
 NT2 zirconium 107  
 NT2 zirconium 108  
 NT2 zirconium 109  
 NT2 zirconium 110  
 NT2 zirconium 78  
 NT2 zirconium 79  
 NT2 zirconium 80  
 NT2 zirconium 81  
 NT2 zirconium 82  
 NT2 zirconium 83  
 NT2 zirconium 84  
 NT2 zirconium 85  
 NT2 zirconium 86  
 NT2 zirconium 87  
 NT2 zirconium 88  
 NT2 zirconium 89  
 NT2 zirconium 90  
 NT2 zirconium 91  
 NT2 zirconium 92  
 NT2 zirconium 93  
 NT2 zirconium 94  
 NT2 zirconium 95  
 NT2 zirconium 96  
 NT2 zirconium 97  
 NT2 zirconium 98  
 NT2 zirconium 99  
 RT gas centrifugation  
 RT isotope effects  
 RT isotope production  
 RT isotope ratio

RT isotope separation  
 RT nuclei

### **isotopic analysis (quantitative)**

USE isotope ratio

### **isotopic composition (quantitative)**

USE isotope ratio

### **isotopic effects**

USE isotope effects

### **ISOTOPIC EXCHANGE**

UF exchange (isotopic)

UF isotope exchange

UF isotopic substitution

NT1 dual temperature process

RT chemical reactions

RT hydrogen transfer

RT isotope effects

RT isotope enriched materials

RT labelling

### **isotopic separation**

USE isotope separation

### **isotopic shift**

USE spectral shift

### **isotopic spin**

USE isospin

### **isotopic substitution**

USE isotopic exchange

### **ISOTROPY**

RT anisotropy

RT configuration

RT distribution

RT orientation

### **ISOVALERIC ACID**

\*BT1 monocarboxylic acids

### **ISOVECTORS**

\*BT1 vectors

### **ISPRA-1 REACTOR**

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

### **isptra-2 rana reactor**

USE rana reactor

### **ISRAEL**

BT1 asia

BT1 developing countries

BT1 middle east

RT israeli organizations

### **ISRAEL ATOMIC ENERGY**

#### **COMMISSION**

1979-11-02

\*BT1 israeli organizations

NT1 negev nuclear research center

NT1 soreq nuclear research center

### **ISRAELI ORGANIZATIONS**

INIS: 1979-11-02; ETDE: 1979-09-26

BT1 national organizations

NT1 israel atomic energy commission

NT2 negev nuclear research center

NT2 soreq nuclear research center

RT israel

### **israeli research reactor-1**

2000-04-12

USE irr-1 reactor

**israeli research reactor-2**

2000-04-12

USE irr-2 reactor

**iss orbital station**

2005-10-13

USE international space station

**ISTTOK TOKAMAK**

2000-05-11

*Instituto Superior Tecnico, Lisbon, Portugal.*

\*BT1 tokamak devices

**ISX TOKAMAK**

INIS: 1977-09-15; ETDE: 1978-04-27

UF impurity study experimental tokamak

\*BT1 tokamak devices

**ITACONIC ACID**

\*BT1 dicarboxylic acids

**ITALIAN ENEA**

INIS: 1985-03-15; ETDE: 1989-08-16

*Comitato Nazionale per la Ricerca e lo Sviluppo dell'Energia Nucleare e delle Energie Alternative; prior to April 1982 known as Comitato Nazionale per Energia Nucleare, and documents written before that date should be indexed to CNEN.*

UF comitato nazionale energia nucleare e alternative

UF enea italy

UF energia nucl e altern, com naz

\*BT1 italian organizations

NT1 cnen

**ITALIAN ENEL**

INIS: 1992-09-11; ETDE: 1991-03-19

*Ente Nazionale per l'Energia Elettrica.*

\*BT1 italian organizations

**ITALIAN ORGANIZATIONS**

1996-07-16

(Prior to August 1996 AGIP NUCLEARE was a valid ETDE descriptor.)

UF agip nucleare

BT1 national organizations

NT1 cise

NT1 italy enea

NT2 cnen

NT1 italy enel

**italian triga-mark-ii reactor**

2000-04-12

USE triga-2-rome reactor

**italian triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE triga-2-rome reactor

**ITALY**

1997-06-19

BT1 developed countries

\*BT1 western europe

NT1 appennines

NT1 sicily

RT adriatic sea

RT alps

RT holy see

RT larderello geothermal field

RT monte amiata geothermal field

RT oecd

RT po river

RT san marino

RT travale geothermal field

**ITEP SYNCHROTRON***Institute of Theoretical and Experimental Physics Synchrotron.*

\*BT1 synchrotrons

**ITER TOKAMAK**

INIS: 1989-04-20; ETDE: 1989-05-11

*International Thermonuclear Experimental Reactor.*

\*BT1 tokamak devices

\*BT1 tokamak type reactors

**ITERATIVE METHODS**

BT1 calculation methods

NT1 finite difference method

NT1 galerkin-petrov method

NT1 newton method

NT1 runge-kutta method

RT mathematics

RT numerical solution

**itr reactor**

2000-04-12

(Prior to April 1994, this was a valid ETDE descriptor.)

USE beryllium moderated reactors

USE enriched uranium reactors

USE thermionic reactors

USE zero power reactors

**itri**

INIS: 2000-04-12; ETDE: 1982-07-27

USE inhalation toxicology research institute

**IU CYCLOTRON**

INIS: 1979-04-27; ETDE: 1979-05-25

UF indiana university cyclotron

\*BT1 isochronous cyclotrons

**iudr**

USE iododeoxyuridine

**ius**

INIS: 1982-12-03; ETDE: 1977-09-19

*Integrated utility systems.*

USE total energy systems

**ivory coast**

INIS: 1997-01-07; ETDE: 1976-01-26

(Until January 1997 this was a valid descriptor.)

USE cote d'ivoire

**IVV-2M REACTOR**

2004-05-11

*Gosatomnadzor of Russia, Russian Federation Atomic Energy Ministry, Sverdlovsk, Russian Federation.*

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**IVV-7 REACTOR**

INIS: 1992-01-08; ETDE: 1992-02-19

*Research Center in Tajura, Libya.*

\*BT1 pool type reactors

\*BT1 research reactors

**ivy project**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE nuclear explosions

**iwg-1m reactor**

INIS: 2003-11-26; ETDE: 2003-12-03

*Kurchatov city, East Kazakhstan.*

USE ewg-1 reactor

**ixion**

2000-04-12

*Plasma heating and confinement by superposition of radial electric fields on the axial magnetic fields (LASL).*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE magnetic mirrors

**j-3105 resonances**

USE j psi-3097 mesons

**J CODES**

BT1 computer codes

**J-J COUPLING**

UF spin-spin interaction

\*BT1 intermediate coupling

RT orbital angular momentum

**J-PARC**

2007-02-27

*Japan Atomic Energy Agency and High Energy Accelerator Research Organization, Tokai, Japan.*

UF japan proton accelerator research complex

\*BT1 synchrotrons

**J PSI-3097 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by PSI-3105 RESONANCES.)

UF j-3105 resonances

UF psi-3105 resonances

\*BT1 charmonium

\*BT1 vector mesons

**JABILUKA DEPOSIT**

INIS: 1978-07-03; ETDE: 1978-08-07

\*BT1 uranium deposits

RT northern territory

RT uranium ores

**JACKETS***Device surrounding an object to be heated or cooled, e.g., water jackets.*

RT fuel cans

RT reactor components

RT shrouds

RT sleeves

**JACKSON MODEL**

RT compound nuclei

RT nuclear reactions

**JACOBIAN FUNCTION**

BT1 functions

**JAEA**

2006-01-26

*The Japan Atomic Energy Research Institute (JAERI) and the Japan Nuclear Cycle Development Institute (JNC) were merged into a new independent organization named the Japan Atomic Energy Agency (JAEA) in October 2005.*

UF japan atomic energy agency

\*BT1 japanese organizations

**JAERI***The Japan Atomic Energy Research Institute (JAERI) and the Japan Nuclear Cycle Development Institute (JNC) were merged into a new independent organization named the Japan Atomic Energy Agency (JAEA) in October 2005.*

UF japan atomic energy research institute

\*BT1 japanese organizations

**jaeri experimental fusion reactor**

INIS: 2000-04-12; ETDE: 1981-08-04  
USE jxfr tokamak

**jaeri fusion torus-2a**

INIS: 1976-07-30; ETDE: 1976-11-02  
USE jft-2a tokamak

**JAERI LINAC**

\*BT1 linear accelerators

**JAERI TANDEM ACCELERATOR**

INIS: 1982-04-14; ETDE: 1982-05-07  
\*BT1 tandem electrostatic accelerators  
\*BT1 van de graaff accelerators

**JAHN-TELLER EFFECT**

RT energy levels  
RT molecules

**jails**

INIS: 2000-04-12; ETDE: 1981-01-09  
USE public buildings

**JAMAICA**

BT1 developing countries  
\*BT1 greater antilles  
BT1 latin america

**james a. fitzpatrick reactor**

USE fitzpatrick reactor

**JAMES RIVER**

\*BT1 rivers  
RT virginia

**JAMESPORT-1 REACTOR**

Long Island Lighting Co., Jamesport, New York, USA. Canceled in 1980 before construction began.  
\*BT1 pwr type reactors

**JAMESPORT-2 REACTOR**

Long Island Lighting Co., Jamesport, New York, USA. Canceled in 1980 before construction began.  
\*BT1 pwr type reactors

**jangle project**

2000-04-12  
(Prior to March 1996 this was a valid ETDE descriptor.)  
USE nuclear explosions

**JANUS REACTOR**

ANL, Argonne, Illinois, USA. Shut down in 1992.  
UF biological research reactor janus  
\*BT1 enriched uranium reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**JAPAN**

1997-06-19  
BT1 asia  
BT1 developed countries  
NT1 hachimantai  
NT1 hirosshima  
NT1 nagasaki  
RT beppu geothermal field  
RT hatchobaru geothermal field  
RT kakkonda geothermal field  
RT matsukawa geothermal field  
RT oecd  
RT okinawa  
RT onikobe geothermal field  
RT onuma geothermal field  
RT otake geothermal field  
RT takenoyu geothermal field

RT takinoue geothermal field

**japan atomic energy agency**

2006-01-26  
USE jaea

**japan atomic energy research institute**

INIS: 1993-12-30; ETDE: 1975-09-11  
USE jaeri

**japan atr fugen**

USE jatr reactor

**japan fast experimental breeder reactor**

1993-11-08  
USE joyo reactor

**japan htr**

USE htr reactor

**japan institute plasma physics stellarator**

1993-11-08  
USE jipp stellarator

**japan materials testing reactor**

USE jmtr reactor

**japan nuclear cycle development institute**

INIS: 1999-06-28; ETDE: 1999-07-02  
USE jnc

**japan nuclear energy safety organization**

2006-01-06  
USE jnes

**japan nuclear ship development agency**

INIS: 1993-12-30; ETDE: 1975-09-11  
USE jnsda

**japan power demonstration reactor**

USE jpdr reactor

**japan power demonstration reactor-2**

1993-11-08  
USE jpdr-2 reactor

**japan proton accelerator research complex**

2007-02-27  
USE j-parc

**japan prototype fast reactor**

INIS: 1984-06-21; ETDE: 2002-02-28  
USE monju reactor

**japan research reactor-1**

USE jrr-1 reactor

**japan research reactor-2**

USE jrr-2 reactor

**japan research reactor-3**

USE jrr-3 reactor

**japan research reactor-4**

USE jrr-4 reactor

**japan ship reactor mutsu**

1993-11-08  
USE mutsu reactor

**JAPANESE ORGANIZATIONS**

BT1 national organizations  
NT1 jaea  
NT1 jaeri

NT1 jnc  
NT1 jnes  
NT1 jnsda  
NT1 pnc

**japco-1 reactor**

USE tokai-mura reactor

**japco-2 reactor**

USE tsuruga reactor

**japco-3 reactor**

USE tokai-2 reactor

**japco-4 reactor**

INIS: 1983-06-30; ETDE: 1983-07-20  
USE tsuruga-2 reactor

**JASON REACTOR**

UK Ministry of Defence, Dept. of Nuclear Science and Technology, Royal Naval College, London, United Kingdom.  
UF uk royal naval college-jason reactor  
\*BT1 argonaut type reactors  
\*BT1 research reactors  
\*BT1 training reactors

**JASTROW THEORY**

RT hard-core potential  
RT nucleon-nucleon potential

**JATR REACTOR**

JNC, Tsuruga, Fukui, Japan.  
UF advanced thermal reactor fugen  
UF fugen atr  
UF japan atr fugen  
\*BT1 hwlwr type reactors  
\*BT1 natural uranium reactors  
\*BT1 plutonium reactors  
\*BT1 pressure tube reactors  
\*BT1 thermal reactors

**JAUNDICE**

BT1 pathological changes  
BT1 symptoms  
RT hepatitis  
RT liver

**JAVA**

INIS: 2002-09-10; ETDE: 2002-11-12  
BT1 programming languages

**java (island)**

2002-11-13  
USE indonesia

**JAW**

UF alveoli (dental)  
UF mandible  
\*BT1 skull  
RT teeth

**jecco process**

2000-04-12  
Japanese process using lime to remove sulfur dioxide in flue gas as gypsum.  
USE desulfurization  
USE lime-limestone wet scrubbing processes

**JEEP-2 REACTOR**

Institut for Atomenergi, Kjeller, Norway.  
UF joint establishment experimental pile-2  
\*BT1 enriched uranium reactors  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 isotope production reactors  
\*BT1 research reactors  
\*BT1 tank type reactors

**jefferson laboratory**

INIS: 2000-04-12; ETDE: 1997-03-28  
USE cebaf accelerator

**jejunum**

USE small intestine

**JEMEZ MOUNTAINS**

2000-04-12  
BT1 mountains  
RT new mexico

**JEN-1 REACTOR**

Nuclear Energy Board, Juan Vigon National  
Nuclear Energy Centre, Madrid, Spain.  
UF *junta de energia nuclear (spain)-1*  
reactor  
UF *spanish jen-1 research reactor*  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**JEN-2 REACTOR**

UF *junta de energia nuclear (spain)-2*  
reactor  
UF *spanish jen-2 research reactor*  
\*BT1 pool type reactors  
\*BT1 research reactors

**JEN REACTOR**

UF *junta de energia nuclear (portugal)*  
reactor  
UF *portuguese jen research reactor*  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**jensen sarcoma**

USE experimental neoplasms

**jerusalem artichokes**

INIS: 2000-04-12; ETDE: 1987-12-17  
USE sunflowers

**JERVIS BAY REACTOR**

\*BT1 power reactors

**JESSE EFFECT**

Change of ionization characteristics when  
impurities are added to certain gases.  
RT gases  
RT impurities  
RT ionization

**JET DRILLS**

INIS: 2000-04-12; ETDE: 1977-03-08  
\*BT1 drills  
RT drill bits  
RT jets  
RT nozzles

**JET ENGINE FUELS**

1994-08-26  
SF aircraft fuels  
SF aviation fuels  
\*BT1 liquid fuels  
RT hydrogen fuels

**JET MODEL**

INIS: 1976-08-17; ETDE: 1976-11-01  
UF *ujm*  
UF *uncorrelated-jet model*  
\*BT1 particle models  
RT uncorrelated-particle model

**jet reactors**

INIS: 2000-04-12; ETDE: 1978-04-27  
(Prior to July 1985, this was a valid ETDE  
descriptor.)  
USE jet tokamak

**JET TOKAMAK**

INIS: 1975-11-11; ETDE: 1979-04-11  
UF jet reactors  
\*BT1 tokamak devices

**JETS**

RT fluid flow  
RT jet drills  
RT nozzles

**JEZEBEL REACTOR**

LANL, Los Alamos, New Mexico, USA. Shut  
down in 1987.  
\*BT1 zero power reactors

**jfer reactor**

USE joyo reactor

**JFT-2 TOKAMAK**

Tokamak device with circular cross section  
and no divertor.  
\*BT1 tokamak devices

**JFT-2A TOKAMAK**

INIS: 1976-07-30; ETDE: 1976-11-01  
Tokamak device with teardrop-like cross  
section and with an axisymmetric divertor.  
UF *diva tokamak*  
UF *jaeri fusion torus-2a*  
\*BT1 tokamak devices

**JFT-2M TOKAMAK**

INIS: 1985-12-10; ETDE: 1986-01-16  
Tokamak device with a D-shaped cross section  
and a divertor.  
\*BT1 tokamak devices

**jgc methane-rich gas process**

INIS: 2000-04-12; ETDE: 1976-01-23  
Production of town gas or sng from naphtha,  
natural gasoline, lpg, kerosene, or methanol  
by catalytic reforming and methanation.  
(Prior to February 1995, this was a valid  
ETDE descriptor.)  
USE sng processes

**jhr reactor**

2005-02-10  
USE jules horowitz reactor

**JIGS**

INIS: 2000-04-12; ETDE: 1976-02-19  
Devices that are submerged in water and  
vibrated to filter or concentrate ore, clean  
coal, etc.  
BT1 concentrators  
RT density  
RT separation processes  
RT sorting

**JININGITE**

2000-04-12  
\*BT1 thorite

**JINR**

UF *dubna, jinr*  
UF *joint institute for nuclear research*  
UF *ob'edinennyj institut yadernykh*  
*issledovaniy*  
UF *oiyai*  
BT1 international organizations

**JINR CYCLOTRONS**

\*BT1 isochronous cyclotrons  
NT1 jinr u-400 cyclotron

**JINR SYNCHROTRON**

\*BT1 synchrotrons

**JINR U-400 CYCLOTRON**

INIS: 1982-07-22; ETDE: 1982-08-11  
\*BT1 heavy ion accelerators  
\*BT1 jinr cyclotrons

**JIPP STELLARATOR**

UF *japan institute plasma physics*  
stellarator  
\*BT1 stellarators

**JIPPT-2 DEVICE**

INIS: 1982-08-27; ETDE: 1982-09-10  
\*BT1 stellarators  
\*BT1 tokamak devices

**JMTR REACTOR**

JAERI, Oarai, Ibaraki, Japan.  
UF *japan materials testing reactor*  
UF *materials testing reactor japan*  
\*BT1 enriched uranium reactors  
\*BT1 materials testing reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 test reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**JNC**

INIS: 1999-06-28; ETDE: 1999-07-02  
The Japan Atomic Energy Research Institute  
(JAERI) and the Japan Nuclear Cycle  
Development Institute (JNC), previously  
known as the Power Reactor and Nuclear  
Fuel Development Corporation (PNC), were  
merged into a new independent organization  
named the Japan Atomic Energy Agency  
(JAEA) in October 2005.  
UF *japan nuclear cycle development*  
institute  
\*BT1 japanese organizations

**JNES**

2006-01-06  
UF *japan nuclear energy safety*  
organization  
\*BT1 japanese organizations

**JNSDA**

ETDE: 1975-09-11  
UF *japan nuclear ship development*  
agency  
\*BT1 japanese organizations

**job training**

INIS: 2000-04-12; ETDE: 1980-09-22  
USE training

**johannite**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE sulfate minerals  
USE uranium minerals

**JOINING**

BT1 fabrication  
NT1 bonding  
NT1 fastening  
NT1 welding  
NT2 arc welding  
NT3 gas metal-arc welding  
NT4 gas tungsten-arc welding  
NT3 plasma arc welding  
NT3 shielded metal-arc welding  
NT3 submerged arc welding  
NT2 brazing  
NT2 diffusion welding  
NT2 electron beam welding  
NT2 electroslag welding  
NT2 explosion welding  
NT2 forge welding  
NT2 friction welding  
NT2 gas welding  
NT2 induction welding  
NT2 laser welding  
NT2 magnetic force welding  
NT2 resistance welding

- NT3 flash welding
- NT2 soldering
- NT2 ultrasonic welding
- NT2 vacuum welding
- RT compatibility
- RT couplings
- RT fasteners

**joint committee on atomic energy**

INIS: 1975-11-27; ETDE: 1975-09-17  
USE us jcae

**joint establishment experimental pile-2**

2000-04-12  
USE jeep-2 reactor

**joint institute for nuclear research**

1993-11-08  
USE jinr

**joint liability**

INIS: 1990-12-15; ETDE: 2002-02-28  
(Prior to December 1990, this was a valid descriptor.)  
USE liabilities

**JOINT VENTURES**

INIS: 1992-01-16; ETDE: 1978-11-14  
*Commercial or maritime enterprises undertaken by several parties jointly.*  
BT1 cooperation  
RT industry  
RT legal aspects  
RT liabilities

**JOINTS**

*Mechanical joints only; see also BONE JOINTS.*

- UF connections
- SF junctions
- NT1 bolted joints
- NT1 brazed joints
- NT1 expansion joints
- NT1 pipe joints
- NT1 soldered joints
- NT1 threaded joints
- NT1 welded joints
- RT bonding
- RT closures
- RT compatibility
- RT fastening
- RT flanges

**joints (anatomy)**

USE bone joints

**JOJOBA**

INIS: 1992-01-09; ETDE: 1980-11-25  
UF *simmondsia chinensis*  
\*BT1 magnoliopsida  
\*BT1 shrubs  
RT arid lands

**jominy end-quench technique**

2000-04-12  
(Prior to July 1996 this was a valid ETDE descriptor.)  
SEE quench hardening

**JONES REDUCTOR**

2000-04-12  
RT reduction

**JOOS-WEINBERG EQUATION**

- \*BT1 differential equations
- RT dirac equation
- RT quantum electrodynamics
- RT spin

**JORDAN**

1979-12-20  
BT1 arab countries  
BT1 asia  
BT1 developing countries  
BT1 middle east

**JORDANIAN ORGANIZATIONS**

2004-03-31  
BT1 national organizations

**jorum event**

1994-10-14  
*A test made during OPERATION MANDREL. (Prior to September 1994, this was a valid ETDE descriptor.)*  
USE nuclear explosions  
USE underground explosions

**jose cabrera reactor**

USE zorita-1 reactor

**joseph m. farley-1 reactor**

USE farley-1 reactor

**joseph m. farley-2 reactor**

USE farley-2 reactor

**JOSEPHSON EFFECT**

RT josephson junctions  
RT superconductivity

**JOSEPHSON JUNCTIONS**

BT1 superconducting junctions  
RT josephson effect

**JOST FUNCTION**

BT1 functions  
RT scattering  
RT schroedinger equation

**JOULE HEATING**

UF *ohmic plasma heating*  
\*BT1 electric heating  
\*BT1 plasma heating  
NT1 current-drive heating

**joule-thomson effect**

INIS: 2000-04-12; ETDE: 1978-09-11  
*A change of temperature in a gas undergoing Joule-Thomson expansion. (Prior to March 1997 this was a valid ETDE descriptor.)*  
SEE thermodynamics

**JOURNAL BEARINGS**

BT1 bearings

**JOYO REACTOR**

JNC. Oarai, Ibaraki, Japan.  
UF *efr reactor*  
UF *fast experimental breeder reactor japan*  
UF *japan fast experimental breeder reactor*  
UF *jfer reactor*  
\*BT1 experimental reactors  
\*BT1 lmfr type reactors  
\*BT1 power reactors

**JPDR-2 REACTOR**

1979-09-18  
JAERI, Tokai, Ibaraki, Japan.  
UF *japan power demonstration reactor-2*  
\*BT1 bwr type reactors

**JPDR REACTOR**

JAERI, Tokai, Ibaraki, Japan.  
UF *japan power demonstration reactor*  
\*BT1 bwr type reactors  
\*BT1 experimental reactors

**jpfr reactor**

INIS: 1977-03-01; ETDE: 1977-04-12  
USE monju reactor

**JPL PROCESS**

INIS: 2000-04-12; ETDE: 1978-07-05  
*Coal desulfurization process consisting of sequential steps of chlorination, hydrolysis, and dechlorination.*  
\*BT1 desulfurization  
RT coal preparation

**JRR-1 REACTOR**

JAERI, Tokai, Ibaraki, Japan.  
UF *japan research reactor-1*  
\*BT1 aqueous homogeneous reactors  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 research reactors  
\*BT1 training reactors

**JRR-2 REACTOR**

JAERI, Tokai, Ibaraki, Japan.  
UF *japan research reactor-2*  
\*BT1 enriched uranium reactors  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 research reactors  
\*BT1 tank type reactors

**JRR-3 REACTOR**

JAERI, Tokai, Ibaraki, Japan. *This reactor was shut down in 1983 and replaced in 1990 by the JRR-3M REACTOR.*  
UF *japan research reactor-3*  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 isotope production reactors  
\*BT1 materials testing reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors  
\*BT1 tank type reactors

**JRR-3M REACTOR**

INIS: 1992-01-24; ETDE: 1992-02-14  
JAERI, Tokai, Ibaraki, Japan. *This reactor replaces the JRR-3 Reactor which was shut down in 1983.*  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 materials testing reactors  
\*BT1 pool type reactors  
\*BT1 research reactors

**JRR-4 REACTOR**

JAERI, Tokai, Ibaraki, Japan.  
UF *japan research reactor-4*  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors

**jt-60 reactors**

INIS: 2000-04-12; ETDE: 1978-04-27  
(Prior to July 1985, this was a valid ETDE descriptor.)  
USE jt-60 tokamak

**jt-60-su tokamak**

INIS: 1999-07-26; ETDE: 2002-02-28  
USE jt-60u tokamak

**JT-60 TOKAMAK**

INIS: 1977-01-25; ETDE: 1979-04-11  
UF *jt-60 reactors*  
\*BT1 tokamak devices  
RT jt-60u tokamak

**JT-60U TOKAMAK**

INIS: 1991-03-22; ETDE: 1991-04-09  
UF *jt-60-su tokamak*  
\*BT1 tokamak devices  
RT jt-60 tokamak

**juelich (kernforschungsanlage)**

INIS: 1984-06-21; ETDE: 1995-10-30  
USE forschungszentrum juelich

**juelich-dido reactor**

USE frj-2 reactor

**juelich-merlin reactor**

USE frj-1 reactor

**juelich storage ring**

INIS: 1992-04-16; ETDE: 2002-02-28  
USE cosy storage ring

**juices**

USE beverages

**JULES HOROWITZ REACTOR**

2005-02-10  
High flux materials testing reactor; CEA,  
Cadarache, Saint-Paul-lez-Durance, France.  
UF jhr reactor  
UF reacteur jules horowitz  
UF rjh reactor  
\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 materials testing reactors  
\*BT1 pool type reactors  
\*BT1 thermal reactors

**JULIC CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24  
\*BT1 isochronous cyclotrons

**JUNCTION DETECTORS**

UF p-n counters  
\*BT1 semiconductor detectors  
NT1 li-drifted junction detectors  
RT semiconductor junctions

**JUNCTION DIODES**

UF zener diodes  
\*BT1 semiconductor diodes

**JUNCTION TRANSISTORS**

\*BT1 transistors  
RT semiconductor junctions

**junctions**

2000-03-28  
(Prior to March 1997 this was a valid ETDE  
descriptor.)  
SEE connectors  
SEE electric contacts  
SEE joints  
SEE semiconductor junctions  
SEE superconducting junctions

**junipers**

INIS: 1992-01-15; ETDE: 2002-02-28  
USE cedars

**juniperus**

INIS: 2000-04-12; ETDE: 1985-12-11  
USE cedars

**JUNO REACTOR**

UF ukaea-juno reactor  
\*BT1 heavy water moderated reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
\*BT1 water moderated reactors  
\*BT1 zero power reactors

**junta de energia nuclear (portugal)  
reactor**

INIS: 1984-06-21; ETDE: 2002-02-28  
USE jen reactor

**junta de energia nuclear (spain)-1  
reactor**

INIS: 1984-06-21; ETDE: 2002-02-28  
USE jen-1 reactor

**junta de energia nuclear (spain)-2  
reactor**

INIS: 1984-06-21; ETDE: 2002-02-28  
USE jen-2 reactor

**JUPITER PLANET**

BT1 planets

**JURAGUA-1 REACTOR**

INIS: 1993-02-11; ETDE: 1993-03-04  
Juragua, Cienfuegos, Cuba.  
\*BT1 wwer type reactors

**JURASSIC PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19  
\*BT1 mesozoic era

**justice department**

INIS: 2000-04-12; ETDE: 1980-08-25  
USE us doj

**JUTE**

\*BT1 corchorus  
RT fibers  
RT textiles

**JUVENILES**

INIS: 1986-03-04; ETDE: 1976-04-19  
RT adolescents  
RT age groups  
RT children

**jxfr reactor**

INIS: 1981-11-25; ETDE: 1982-01-07  
USE jxfr tokamak

**JXFR TOKAMAK**

INIS: 1981-11-25; ETDE: 1982-01-07  
UF jaeri experimental fusion reactor  
UF jxfr reactor  
\*BT1 tokamak devices

**k-1240 resonances**

1988-03-08  
(Prior to December 1987 this was a valid  
descriptor.)  
USE strange mesons

**k-1320 resonances**

1987-12-21  
(Prior to December 1987 this was a valid  
descriptor.)  
USE k\*0-1430 mesons

**k-1420 resonances**

1987-12-21  
(Prior to December 1987 this was a valid  
descriptor.)  
USE k\*2-1430 mesons

**K-1460 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02  
\*BT1 pseudoscalar mesons  
\*BT1 strange mesons

**k-1775 resonances**

1987-12-21  
(Prior to December 1987 this was a valid  
descriptor.)  
USE k2-1770 mesons

**K-1830 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02  
\*BT1 pseudoscalar mesons  
\*BT1 strange mesons

**k-1871 resonances**

INIS: 1988-03-08; ETDE: 1978-03-08  
(Prior to December 1987 this was a valid  
descriptor.)  
USE strange mesons

**k-2130 resonances**

INIS: 1987-12-21; ETDE: 1979-10-23  
(Prior to December 1987 this was a valid  
descriptor.)  
USE k\*4-2045 mesons

**k-25 plant**

USE orgdp

**k-892 resonances**

1987-12-21  
(Prior to December 1987 this was a valid  
descriptor.)  
USE k\*-892 mesons

**K ABSORPTION**

\*BT1 absorption

**K CAPTURE**

\*BT1 electron capture decay

**K CODES**

BT1 computer codes

**K CONVERSION**

UF k-conversion coefficient  
\*BT1 internal conversion

**k-conversion coefficient**

USE k conversion

**K-HARMONICS METHOD**

1978-11-24  
BT1 calculation methods  
RT nuclear structure

**K MATRIX**

BT1 matrices  
RT nuclear reactions  
RT unitary pole approximation

**K REACTOR**

Savannah River Plant, Aiken, South Carolina,  
USA. Reactor in surveillance and maintenance  
mode.  
UF savannah river plant k reactor  
\*BT1 heavy water moderated reactors  
\*BT1 special production reactors

**K SHELL**

INIS: 1976-07-06; ETDE: 1976-08-24  
Atomic electron shells.  
UF atomic shells (k)  
BT1 electronic structure

**K\*-1410 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02  
\*BT1 strange mesons  
\*BT1 vector mesons

**K\*-1680 MESONS**

1995-07-17  
\*BT1 strange mesons  
\*BT1 vector mesons

**K\*-892 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02  
(Prior to December 1987 this concept was  
indexed by K-892 RESONANCES.)  
UF k-892 resonances  
\*BT1 strange mesons  
\*BT1 vector mesons

**k\*0-1350 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02  
(From December 1987 until July 1995 this was a valid term.)  
USE k\*0-1430 mesons

**K\*0-1430 MESONS**

1995-08-07  
(Until December 1987 this concept was indexed by K-1320 RESONANCES; from then until July 1995 it was indexed by K\*0-1350 MESONS.)  
UF k-1320 resonances  
UF k\*0-1350 mesons  
\*BT1 scalar mesons  
\*BT1 strange mesons

**K\*2-1430 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02  
(Prior to December 1987 this concept was indexed by K-1420 RESONANCES.)  
UF k-1420 resonances  
\*BT1 strange mesons  
\*BT1 tensor mesons

**K\*3-1780 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02  
\*BT1 strange mesons  
\*BT1 tensor mesons

**K\*4-2045 MESONS**

1995-08-07  
(Until December 1987 this concept was indexed by K-2130 RESONANCES; from then until July 1995 it was indexed by K\*4-2060 MESONS.)  
UF k-2130 resonances  
UF k\*4-2060 mesons  
\*BT1 strange mesons  
\*BT1 tensor mesons

**k\*4-2060 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02  
(From December 1987 until July 1995 this was a valid term.)  
USE k\*4-2045 mesons

**k\*resonances**

1988-03-08  
(Prior to December 1987 this was a valid descriptor.)  
USE strange mesons

**k01**

USE kaons neutral short-lived

**k02**

USE kaons neutral long-lived

**K1-1270 MESONS**

1995-08-07  
(Until July 1995 this concept was indexed by K1-1280 MESONS.)  
UF k1-1280 mesons  
SF q enhancement  
SF q resonances  
\*BT1 axial vector mesons  
\*BT1 strange mesons

**k1-1280 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02  
(Until July 1995 this was a valid term.)  
USE k1-1270 mesons

**K1-1400 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02  
SF q enhancement  
SF q resonances  
\*BT1 axial vector mesons  
\*BT1 strange mesons

**K2-1770 MESONS**

INIS: 1995-07-17; ETDE: 1988-02-02  
(Prior to December 1987 this concept was indexed by K-1775 RESONANCES.)  
UF k-1775 resonances  
SF l resonances  
\*BT1 strange mesons  
\*BT1 tensor mesons

**K2-1820 MESONS**

1995-07-17  
\*BT1 strange mesons  
\*BT1 tensor mesons

**KAERI**

INIS: 1981-12-23; ETDE: 1982-02-09  
Korea Atomic Energy Research Institute.  
(Prior to December 1989 this descriptor was used to index Korea Advanced Energy Research Institute.)  
UF korea advanced energy research institute  
UF korea atomic energy research institute  
\*BT1 korean organizations

**kahl-main reactor**

USE hdr reactor

**kahl-vak reactor**

USE vak reactor

**KAHLERITE**

2000-04-12  
\*BT1 oxide minerals  
\*BT1 uranium minerals  
RT arsenic oxides  
RT iron oxides  
RT uranium oxides

**KAHTER REACTOR**

INIS: 1980-05-14; ETDE: 1975-11-26  
UF kritische anlage zum htr  
\*BT1 htgr type reactors  
\*BT1 zero power reactors

**KAIGA-1 REACTOR**

INIS: 1993-02-09; ETDE: 1993-03-04  
Kaiga, Karnataka, India.  
\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

**KAIGA-2 REACTOR**

INIS: 1993-02-09; ETDE: 1993-03-04  
Kaiga, Karnataka, India.  
\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

**KAIGA-3 REACTOR**

2005-07-22  
Nuclear Power Corporation of India Ltd.,  
Kaiga, Karnataka, India.  
\*BT1 phwr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**KAIGA-4 REACTOR**

2005-07-22  
Nuclear Power Corporation of India Ltd.,  
Kaiga, Karnataka, India.  
\*BT1 phwr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**KAINOSITE**

2000-04-12  
\*BT1 radioactive minerals  
\*BT1 silicate minerals  
RT calcium silicates  
RT cerium silicates

RT yttrium silicates

**KAISERAUGST REACTOR**

\*BT1 bwr type reactors

**KAKKONDA GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1979-10-23  
BT1 geothermal fields  
RT japan

**KAKRAPAR-1 REACTOR**

INIS: 1993-03-10; ETDE: 1993-04-16  
Surat, Gujarat, India.  
\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

**KAKRAPAR-2 REACTOR**

INIS: 1993-03-10; ETDE: 1993-04-16  
Surat, Gujarat, India.  
\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

**KALE**

1991-12-16  
\*BT1 brassica

**KALININ-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20  
Kalinin NPP, Kalinin, Russian Federation.  
\*BT1 wwr type reactors

**KALININ-3 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13  
Kalinin NPP, Kalinin, Russian Federation.  
\*BT1 wwr type reactors

**kalkar power reactor**

INIS: 2000-04-12; ETDE: 1975-10-01  
USE snr reactor

**KALLIKREIN**

(Prior to January 1981 this was a valid ETDE descriptor. From January 1981 to November 1990 this material was indexed to KININOGENIN.)  
UF kininogenin  
\*BT1 blood coagulation factors  
\*BT1 radioprotective substances  
\*BT1 serine proteinases

**KALPAKKAM-1 REACTOR**

Kalpakkam, Tamil Nadu, India.  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
\*BT1 pressure tube reactors

**KALPAKKAM-2 REACTOR**

Kalpakkam, Tamil Nadu, India.  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
\*BT1 pressure tube reactors

**KALPAKKAM LMFBR REACTOR**

Kalpakkam, Tamil Nadu, India.  
UF fast breeder test reactor (kalpakkam)  
UF fbtr reactor (kalpakkam)  
UF test fast breeder reactor kalpakkam  
\*BT1 lmfbtr type reactors  
\*BT1 test reactors

**KALPAKKAM PFR REACTOR**

2005-07-22  
Bharatiya Nabhikiya Vidyut Nigam Ltd.,  
Kalpakkam, Tamil Nadu, India.  
UF kalpakkam prototype fast breeder reactor  
\*BT1 fbr type reactors

**KALPAKKAM PFR REACTOR**

INIS: 1975-10-29; ETDE: 1975-12-16  
Kalpakkam, Tamil Nadu, India.  
UF kalpakkam pulsed fast reactor



- \*BT1 air cooled reactors
- \*BT1 fast reactors
- \*BT1 pulsed reactors
- \*BT1 research and test reactors

### kalpakkam prototype fast breeder reactor

2005-07-22

- USE kalpakkam pfb reactor

### kalpakkam pulsed fast reactor

INIS: 1975-10-29; ETDE: 1975-12-16

- USE kalpakkam pfr reactor

### kalpakkam reactor research center

INIS: 1989-02-24; ETDE: 1977-06-03

Reactor Research Centre, Kalpakkam, India.

- USE igcar

### KALUZA-KLEIN THEORY

INIS: 1984-01-18; ETDE: 1984-02-10

Approach to unify electromagnetism and gravitation in the framework of general relativity theory by introducing a fifth space-time coordinate, the generator of which is the electric charge.

- \*BT1 unified-field theories
- RT compactification
- RT electromagnetism
- RT general relativity theory
- RT gravitation
- RT supergravity
- RT unified gauge models

### KAMCHATKA

INIS: 1992-06-04; ETDE: 1978-06-14

- \*BT1 russian federation

### KAMINI REACTOR

INIS: 1989-12-08; ETDE: 1990-01-03

IGCAR, Kalpakkam, Tamilnadu, India.

- \*BT1 research and test reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

### KAMOJANG GEOTHERMAL FIELD

INIS: 1992-06-04; ETDE: 1980-03-04

- BT1 geothermal fields
- RT indonesia

### kangaroo rat

Long-tailed jumping rat of western USA.

- USE rodents

### kangaroos

INIS: 1993-05-04; ETDE: 1981-06-15

- USE marsupials

### kansai-1 reactor

- USE mihama-1 reactor

### kansai-2 reactor

- USE mihama-2 reactor

### kansai-3 reactor

- USE takahama-1 reactor

### kansai-4 reactor

- USE takahama-2 reactor

### KANSAS

- \*BT1 usa
- RT chattanooga formation
- RT missouri river
- RT permian basin

### KANSAS CITY PLANT

INIS: 1991-02-11; ETDE: 1988-05-23

US DOE Facility in Kansas City, Missouri.

- \*BT1 us doe
- \*BT1 us erda

RT missouri

### kansas state university triga mk-2 reactor

1993-11-09

- USE triga-2-kansas reactor

### KANTHAL

2000-04-12

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 iron base alloys

### KANUPP REACTOR

Paradise Point, Sind, Pakistan.

UF karachi nuclear power plant

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

### KAOLIN

A group of clay minerals, mainly hydrous aluminium silicate.

- UF china clay
- \*BT1 clays
- \*BT1 oxide minerals
- RT kaolinite

### KAOLINITE

1992-07-20

Hydrous silicate of aluminium that constitutes the principal mineral in kaolin.

- \*BT1 silicate minerals
- RT aluminium silicates
- RT kaolin

### KAON BEAMS

- \*BT1 meson beams

### KAON DETECTION

1976-02-11

- \*BT1 radiation detection

### kaon-deuteron interactions

(Prior to March 1996 this was a valid ETDE descriptor.)

- USE kaon-neutron interactions
- USE kaon-proton interactions

### KAON-HYPERON INTERACTIONS

- \*BT1 meson-hyperon interactions

### KAON-KAON INTERACTIONS

- \*BT1 meson-meson interactions

### kaon minus-deuteron interactions

2000-04-12

(Prior to March 1996 KAON-DEUTERON INTERACTIONS was used for this concept in ETDE.)

- USE kaon minus-neutron interactions
- USE kaon minus-proton interactions

### KAON MINUS-NEUTRON INTERACTIONS

INIS: 1977-01-25; ETDE: 1976-07-09

- UF kaon minus-deuteron interactions
- \*BT1 kaon-neutron interactions

### KAON MINUS-PROTON INTERACTIONS

INIS: 1977-01-25; ETDE: 1976-07-09

- UF kaon minus-deuteron interactions
- \*BT1 kaon-proton interactions

### KAON MINUS REACTIONS

INIS: 1977-03-01; ETDE: 1976-07-09

- \*BT1 kaon reactions

### kaon neutral-deuteron interactions

2000-04-12

(Prior to March 1996 KAON-DEUTERON INTERACTIONS was used for this concept in ETDE.)

- USE kaon neutral-neutron interactions
- USE kaon neutral-proton interactions

### KAON NEUTRAL-NEUTRON INTERACTIONS

INIS: 1979-09-18; ETDE: 1976-07-09

- UF kaon neutral-deuteron interactions
- \*BT1 kaon-neutron interactions

### KAON NEUTRAL-PROTON INTERACTIONS

INIS: 1977-06-13; ETDE: 1976-07-09

- UF kaon neutral-deuteron interactions
- \*BT1 kaon-proton interactions

### KAON NEUTRAL REACTIONS

INIS: 1979-09-18; ETDE: 1976-07-09

- \*BT1 kaon reactions

### KAON-NEUTRON INTERACTIONS

(From February 1975 until March 1996 KAON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

- UF kaon-deuteron interactions
- \*BT1 kaon-nucleon interactions
- NT1 kaon minus-neutron interactions
- NT1 kaon neutral-neutron interactions
- NT1 kaon plus-neutron interactions

### KAON-NUCLEON INTERACTIONS

- \*BT1 meson-nucleon interactions
- NT1 kaon-neutron interactions
- NT2 kaon minus-neutron interactions
- NT2 kaon neutral-neutron interactions
- NT2 kaon plus-neutron interactions
- NT1 kaon-proton interactions
- NT2 kaon minus-proton interactions
- NT2 kaon neutral-proton interactions
- NT2 kaon plus-proton interactions

### kaon plus-deuteron interactions

2000-04-12

(Prior to March 1996 KAON-DEUTERON INTERACTIONS was used for this concept in ETDE.)

- USE kaon plus-neutron interactions
- USE kaon plus-proton interactions

### KAON PLUS-NEUTRON INTERACTIONS

INIS: 1977-01-25; ETDE: 1976-07-09

- UF kaon plus-deuteron interactions
- \*BT1 kaon-neutron interactions

### KAON PLUS-PROTON INTERACTIONS

INIS: 1977-01-25; ETDE: 1976-07-09

- UF kaon plus-deuteron interactions
- \*BT1 kaon-proton interactions

### KAON PLUS REACTIONS

INIS: 1977-09-15; ETDE: 1976-07-09

- \*BT1 kaon reactions

### KAON-PROTON INTERACTIONS

(From February 1975 until March 1996 KAON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

- UF kaon-deuteron interactions
- \*BT1 kaon-nucleon interactions
- NT1 kaon minus-proton interactions
- NT1 kaon neutral-proton interactions
- NT1 kaon plus-proton interactions

### KAON REACTIONS

- \*BT1 meson reactions
- NT1 kaon minus reactions

**NT1** kaon neutral reactions  
**NT1** kaon plus reactions

**KAONIC ATOMS**

\*BT1 mesic atoms  
 RT kaonium

**KAONIUM**

INIS: 1985-11-19; ETDE: 1985-12-13

RT bound state  
 RT kaonic atoms  
 RT kaons minus  
 RT kaons plus  
 RT muonium  
 RT pionium

**KAONS**

\*BT1 pseudoscalar mesons  
 \*BT1 strange mesons  
**NT1** antikaons  
**NT2** antikaons neutral  
**NT1** cosmic kaons  
**NT1** kaons minus  
**NT1** kaons neutral  
**NT2** antikaons neutral  
**NT2** kaons neutral long-lived  
**NT2** kaons neutral short-lived  
**NT1** kaons plus  
 RT pi-k atoms

**kaons 1**

USE kaons neutral short-lived

**kaons 2**

USE kaons neutral long-lived

**KAONS MINUS**

\*BT1 kaons  
 RT kaonium

**KAONS NEUTRAL**

\*BT1 kaons  
**NT1** antikaons neutral  
**NT1** kaons neutral long-lived  
**NT1** kaons neutral short-lived

**KAONS NEUTRAL LONG-LIVED**

UF *k02*  
 UF *kaons 2*  
 \*BT1 kaons neutral

**KAONS NEUTRAL SHORT-LIVED**

UF *k01*  
 UF *kaons 1*  
 \*BT1 kaons neutral

**KAONS PLUS**

\*BT1 kaons  
 RT kaonium

**KAPITZA RESISTANCE**

BT1 thermal boundary resistance

**KAPL**

UF *knolls atomic power laboratory*  
 \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
 RT new york

**kappa-725 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**kapur-peierls method**

USE peierls method

**karachi nuclear power plant**

USE kanupp reactor

**karlsruhe (forschungszentrum)**

1995-10-25

USE forschungszentrum karlsruhe

**karlsruhe (kernforschungszentrum)**

INIS: 1993-11-09; ETDE: 2002-02-28

USE forschungszentrum karlsruhe

**KARLSRUHE CYCLOTRON**

\*BT1 isochronous cyclotrons

**karlsruhe nuclear research center**

2000-04-12

USE forschungszentrum karlsruhe

**karlsruhe reprocessing plant**

INIS: 1979-11-02; ETDE: 1979-02-23

Wiederaufarbeitungsanlage Karlsruhe.

USE wak

**karlsruhe research reactor fr-2**

2000-04-12

USE fr-2 reactor

**KARTINI-PPNY REACTOR**

INIS: 1996-11-11; ETDE: 1996-10-25

Yogyakarta, Indonesia.

\*BT1 research reactors

\*BT1 triga type reactors

**KARYOTYPE**

RT acrocentric chromosomes  
 RT chromosomal aberrations  
 RT chromosomes  
 RT genome mutations  
 RT human chromosomes

**kashima-1 reactor**

USE shimane-1 reactor

**kashima-2 reactor**

INIS: 1985-11-16; ETDE: 2001-02-13

USE shimane-2 reactor

**kashiwazaki-1 reactor**

INIS: 2000-04-12; ETDE: 1979-09-26

(Prior to September 1989 this was a valid ETDE descriptor.)

USE kashiwazaki-kariwa-1 reactor

**KASHIWAZAKI-KARIWA-1 REACTOR**

INIS: 1987-01-28; ETDE: 1989-09-18

TEPCO, Kashiwazaki, Niigata, Japan.

(The form KASHIWAZAKI-1 REACTOR was used by INIS prior to January 1987 and by ETDE prior to September 1989.)

UF *kashiwazaki-1 reactor*

UF *tokyo-denrioku k-1 reactor*

\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-2 REACTOR**

INIS: 1985-04-22; ETDE: 1985-05-07

TEPCO, Kashiwazaki, Niigata, Japan.

UF *tokyo-denryoku k-2 reactor*

\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-3 REACTOR**

INIS: 1991-10-09; ETDE: 1994-08-10

TEPCO, Kashiwazaki, Niigata, Japan.

\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-4 REACTOR**

INIS: 1990-12-21; ETDE: 1991-01-15

TEPCO, Kashiwazaki, Niigata, Japan.

\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-5 REACTOR**

INIS: 1988-11-16; ETDE: 1988-12-02

TEPCO, Kashiwazaki, Niigata, Japan.

\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-6 REACTOR**

INIS: 1989-09-14; ETDE: 1989-10-16

TEPCO, Kashiwazaki, Niigata, Japan.

\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-7 REACTOR**

INIS: 1989-09-15; ETDE: 1989-10-16

TEPCO, Kashiwazaki, Niigata, Japan.

\*BT1 bwr type reactors

**kasseri event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**kawasaki-hitachi training reactor**

USE htr reactor

**KAWERAU GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields

RT geothermal hot-water systems

RT new zealand

**KAZAKHSTAN**

INIS: 1997-11-07; ETDE: 1997-08-23

(Until January 1993, this was indexed by USSR. Between January 1997 and July 1997 the descriptor was spelled KAZAKSTAN.)

UF *kazakstan*

SF *soviet union*

SF *union of soviet socialist republics*

SF *ussr*

BT1 asia

BT1 developing countries

RT aral sea

RT caspian sea

RT semipalatinsk test site

RT urals

**KAZAKHSTAN CYCLOTRON**

INIS: 1997-07-30; ETDE: 1997-08-23

(Between January 1997 and July 1997 this descriptor was spelled KAZAKSTAN CYCLOTRON.)

UF *kazakstan cyclotron*

\*BT1 isochronous cyclotrons

**kazakhstan ewg-1 reactor**

INIS: 2003-11-26; ETDE: 2003-12-03

Kurchatov city, East Kazakhstan.

USE ewg-1 reactor

**kazakhstan igr reactor**

INIS: 2003-11-26; ETDE: 2003-12-03

Kurchatov city, East Kazakhstan.

USE igr reactor

**KAZAKHSTAN ORGANIZATIONS**

INIS: 1999-07-20; ETDE: 1999-08-30

BT1 national organizations

**kazakstan**

INIS: 1997-07-30; ETDE: 1996-12-24

(From January 1997 until July 1997 this was a valid descriptor.)

USE kazakhstan

**kazakstan cyclotron**

INIS: 1997-07-30; ETDE: 1996-12-24

(From January 1997 until July 1997 this was a valid descriptor.)

USE kazakhstan cyclotron

**KBR-1 REACTOR**

1995-01-11

*Soviet annular oscillator fast reactor.*

UF cobra reactor

\*BT1 fast reactors

\*BT1 zero power reactors

**KBW GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1982-12-23

*Entrained flow coal gasification process under development by Koppers and Babcock and Wilcox.*

\*BT1 coal gasification

**kcb reactor***Kernenergiecentrale borssele.*

USE borssele reactor

**kdf computers**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE computers

**KECEROVCE-1 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13

*East Slovakia.*

\*BT1 wwer type reactors

**keelson event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**kek intersecting storage accelerator**

INIS: 2000-04-12; ETDE: 1981-10-24

USE tristan storage rings

**KEK LINAC**

\*BT1 linear accelerators

**KEK PHOTON FACTORY**

INIS: 1984-07-20; ETDE: 1984-08-20

\*BT1 synchrotron radiation sources

RT linear accelerators

**KEK SYNCHROTRON***Japan National Laboratory for High Energy Physics Synchrotron.*

UF tsukuba kek synchrotron

\*BT1 synchrotrons

**KEL-F**

\*BT1 organic chlorine compounds

\*BT1 organic fluorine compounds

\*BT1 polyethylenes

**KELLOGG PROCESS**

2000-04-12

*M. W. Kellogg company process for producing high-btu gas in which synthesis gas, produced by using molten salt (sodium carbonate) to provide heat and possibly catalyze the reaction, is methanated.*

UF molten salt process (kellogg)

\*BT1 coal gasification

BT1 sng processes

RT high btu gas

**kellogg rust westinghouse process**

INIS: 2000-04-12; ETDE: 1985-07-19

USE krw gasification process

**kelp**

INIS: 1992-01-13; ETDE: 1976-12-15

USE seaweeds

**kelvin-helmholtz instability**

USE helmholtz instability

**kema suspension test reactor**

USE kstr reactor

**KENNEBEC RIVER**

INIS: 1992-06-04; ETDE: 1980-10-27

\*BT1 rivers

RT maine

**KENTUCKY**

1997-06-19

\*BT1 usa

RT chattanooga formation

RT cumberland river

RT illinois basin

RT mississippi river

RT ohio river

RT paducah plant

RT shawnee steam plant

RT tennessee river

RT tennessee valley region

**KENYA**

BT1 africa

BT1 developing countries

**kepco oshima oi-1 reactor**

USE oi-1 reactor

**kepco oshima oi-2 reactor**

USE oi-2 reactor

**KEPONE**

INIS: 2000-04-12; ETDE: 1978-09-11

\*BT1 insecticides

RT organic chlorine compounds

**KERATIN**

\*BT1 scleroproteins

**KERMA***Total kinetic energy of charged particles produced by ionizing radiation per unit mass of irradiated material in ergs per gram.*

RT ionization

RT kinetic energy

RT radiation doses

**KERNELS**

NT1 point kernels

RT integral equations

**kernels (fuel)**

USE fuel particles

**kernels (slowing-down)**

USE slowing-down kernels

**kernenergiecentrale borssele reactor**

INIS: 1984-06-21; ETDE: 2002-03-09

USE borssele reactor

**kernforschungsanlage juelich**

1995-04-13

(Until March 1995 this was a valid descriptor.)

USE forschungszentrum juelich

**kernforschungszentrum karlsruhe**

1995-10-25

(Prior to October 1995 this was a valid ETDE descriptor.)

USE forschungszentrum karlsruhe

**kernfysisch versneller instituut**

INIS: 1977-09-06; ETDE: 1977-10-19

USE kvi

**kernfysisch versneller instituut cyclotron**

INIS: 1993-11-09; ETDE: 2002-02-28

USE kvi cyclotron

**kernkraftwerk biblis**

USE biblis-1 reactor

**kernkraftwerk biblis-3**

INIS: 1976-10-07; ETDE: 1976-11-02

USE biblis-3 reactor

**kernkraftwerk biblis-4**

INIS: 1976-10-07; ETDE: 1976-11-02

USE biblis-4 reactor

**kernkraftwerk biblis-a**

INIS: 1976-10-07; ETDE: 2002-03-01

USE biblis-1 reactor

**kernkraftwerk biblis-b**

INIS: 1976-10-07; ETDE: 2002-03-01

USE biblis-2 reactor

**kernkraftwerk brokdorf**

INIS: 1976-09-06; ETDE: 1976-11-02

USE brokdorf reactor

**kernkraftwerk emsland**

INIS: 1980-02-26; ETDE: 1980-03-29

USE emsland reactor

**kernkraftwerk goesgen-daeniken**

USE goesgen reactor

**kernkraftwerk isar**

USE isar reactor

**kernkraftwerk isar-2**

INIS: 2000-04-12; ETDE: 1982-10-05

USE isar-2 reactor

**kernkraftwerk lingen**

USE lingen reactor

**kernkraftwerk niederaichbach**

USE niederaichbach reactor

**kernkraftwerk obrigheim**

USE obrigheim reactor

**kernkraftwerk philippsburg-1**

USE philippsburg-1 reactor

**kernkraftwerk philippsburg-2**

USE philippsburg-2 reactor

**kernkraftwerk rwe-bayernwerk**

USE rwe-bayernwerk reactor

**kernkraftwerk stade**

USE stade reactor

**kernkraftwerk vahnum-1**

INIS: 1977-02-08; ETDE: 2002-02-28

USE vahnum-1 reactor

**kernkraftwerk vahnum-2**

INIS: 1977-02-08; ETDE: 2002-02-28

USE vahnum-2 reactor

**kernkraftwerk wuergassen**

USE wuergassen reactor

**KEROGEN**

1999-09-01

*Solid, bituminous mineraloid substance in oil shales that yields oil when shales undergo destructive distillation.*

\*BT1 bituminous materials

\*BT1 organic matter

RT oil shales

RT shale oil

**KEROSENE**

\*BT1 gas oils

\*BT1 liquid fuels

RT automotive fuels

**KERR EFFECT**

\*BT1 dielectric properties

RT magneto-optical effects  
 RT polarization  
 RT visible radiation

**KERR FIELD**

BT1 gravitational fields  
 RT axial symmetry  
 RT black holes  
 RT einstein field equations  
 RT kerr metric

**KERR METRIC**

BT1 metrics  
 RT kerr field

**KETENES**

\*BT1 organic oxygen compounds  
 RT carboxylic acids

**KETO ACIDS**

*For carboxyl acids only.*

UF oxocarboxylic acids  
 \*BT1 carboxylic acids  
 NT1 acetoacetic acid  
 NT1 kynurenine  
 NT1 levulinic acid  
 NT1 pyruvic acid

**ketobutyric acid-beta**

USE acetoacetic acid

**KETONES**

1996-10-23

(Most of the UF terms below have been valid ETDE descriptors.)

UF acridones  
 UF aminopropiophenone-para  
 UF dianabol  
 UF ndpp  
 UF ninhydrin  
 UF papp  
 UF phloredzin  
 UF phlorhizin  
 UF phlorizin  
 UF triketohydrindane  
 UF violanthrone  
 BT1 organic compounds  
 NT1 2-3-pentanedione  
 NT1 acetone  
 NT1 acetophenone  
 NT1 acetylacetone  
 NT1 androstenedione  
 NT1 androsterone  
 NT1 benzophenone  
 NT1 camphor  
 NT1 corticosteroids  
 NT2 glucocorticoids  
 NT3 corticosterone  
 NT3 cortisone  
 NT3 dexamethasone  
 NT3 hydrocortisone  
 NT3 prednisolone  
 NT3 prednisone  
 NT2 mineralocorticoids  
 NT3 aldosterone

NT1 curcumin  
 NT1 cyclohexanone  
 NT1 estrone  
 NT1 fructose  
 NT1 hydroxyandrostenedione  
 NT1 hydroxypregnenone  
 NT1 hydroxypropiofenone  
 NT1 methyl isobutyl ketone  
 NT1 progesterone  
 NT1 ribulose  
 NT1 sorbose  
 NT1 testosterone  
 NT1 triacetoneamine-n-oxyl  
 NT1 tropones  
 NT1 tta  
 RT enols

RT hydrazones  
 RT imines  
 RT luminol  
 RT oximes  
 RT quinones  
 RT semicarbazones

**ketopropionic acid-alpha**

USE pyruvic acid

**ketosteroids (urinary)**

USE urinary ketosteroids

**ketovaleric acid-gamma**

USE levulinic acid

**KEV RANGE**

BT1 energy range  
 NT1 kev range 01-10  
 NT1 kev range 10-100  
 NT1 kev range 100-1000

**KEV RANGE 01-10**

\*BT1 kev range

**KEV RANGE 10-100**

\*BT1 kev range

**KEV RANGE 100-1000**

\*BT1 kev range

**kevlar**

INIS: 2000-04-12; ETDE: 1978-07-06

USE aramids

**KEWAUNEE REACTOR**

*Nuclear Management Corp, Carlton, Wisconsin, USA.*

UF carlton power reactor  
 UF wisconsin public service power reactor

\*BT1 pwr type reactors

**KEWB REACTOR**

*US ERDA/Atomics International Div., Rockwell International, Santa Susana, California, USA. Shut down in 1967; dismantled in 1975.*

UF kinetic experiment water boiler  
 \*BT1 aqueous homogeneous reactors

**KEY LAKE MINE**

1991-07-02

\*BT1 uranium mines  
 RT saskatchewan

**kfki reactor**

INIS: 2000-04-12; ETDE: 1975-07-29

USE wwr-s-budapest reactor

**KGRA**

INIS: 2000-04-12; ETDE: 1976-05-17

UF known geothermal resource area  
 NT1 klamath falls  
 NT1 roosevelt hot springs  
 NT1 wendell-amedee hot springs  
 RT geothermal fields

**KHALATNIKOV THEORY**

RT superfluidity  
 RT thermodynamics

**KHARKOV LINAC**

\*BT1 linear accelerators

**KHMELNITSKIJ-1 REACTOR**

INIS: 1989-09-14; ETDE: 1989-10-16  
*Ukraine.*

\*BT1 wwer type reactors

**khuri representation**

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE dispersion relations

SEE mandelstam representation  
 SEE scattering

**KHZ RANGE**

BT1 frequency range  
 NT1 khz range 01-100  
 NT1 khz range 100-1000

**KHZ RANGE 01-100**

\*BT1 khz range

**KHZ RANGE 100-1000**

\*BT1 khz range

**KICKER MAGNETS**

INIS: 1999-07-02; ETDE: 1979-05-25  
*Magnets used to deflect charged-particle beam for extraction from an accelerator.*

\*BT1 magnets  
 RT beam extraction  
 RT beam optics

**kicksorters**

USE pulse analyzers

**kidney stones**

USE calculi  
 USE kidneys

**KIDNEYS**

UF kidney stones  
 UF mechanical kidney  
 \*BT1 organs  
 NT1 glomeruli  
 NT1 tubules  
 RT blood circulation  
 RT calculi  
 RT diuretics  
 RT excretion  
 RT nephrectomy  
 RT nephritis  
 RT nephrosclerosis  
 RT renal clearance  
 RT renin  
 RT renography  
 RT uremia  
 RT urinary tract  
 RT urine  
 RT urogenital system diseases

**kieselguhr**

1992-11-03

USE diatomaceous earth

**KIEV CYCLOTRON**

INIS: 1981-12-23; ETDE: 1982-02-09

\*BT1 isochronous cyclotrons

**kiev wwr-m reactor**

INIS: 1984-06-21; ETDE: 2002-02-28

USE wwr-m-kiev reactor

**kihara core**

USE kihara potential

**KIHARA POTENTIAL**

UF kihara core  
 UF kihara theory  
 BT1 potentials  
 RT atoms  
 RT molecules

**kihara theory**

USE kihara potential

**KIKUCHI LINES**

RT crystal structure  
 RT dislocations  
 RT electron diffraction

**KILAUEA VOLCANO**

INIS: 1992-06-04; ETDE: 1977-12-22

BT1 volcanoes

RT hawaii

### kiln incinerators

1992-03-17

USE incinerators

### KILNGAS PROCESS

INIS: 2000-04-12; ETDE: 1981-09-22

Low btu gasification process being developed by Allis-Chalmers based on a rotary ported kiln concept.

\*BT1 coal gasification

### KILNS

INIS: 1992-03-17; ETDE: 1977-09-19

Heated enclosures used for drying, burning, or firing materials.

NT1 solar kilns

RT furnaces

### KILO AMP BEAM CURRENTS

From 1000 to 10 exp 6 amp.

\*BT1 beam currents

### KILOWATT POWER RANGE

INIS: 1988-04-15; ETDE: 1989-08-10

BT1 power range

NT1 power range 01-10 kw

NT1 power range 10-100 kw

NT1 power range 100-1000 kw

### KIMBERLITES

\*BT1 lamprophyres

\*BT1 peridotites

RT apatites

RT mica

RT olivine

RT oxide minerals

RT perovskite

RT silicate minerals

### kinases

INIS: 2000-04-12; ETDE: 1986-04-10

USE phosphotransferases

### kinases (phosphotransferases)

USE phosphotransferases

### kinematics (particle)

USE particle kinematics

### KINETIC ENERGY

BT1 energy

NT1 transverse energy

RT angular momentum

RT cold fission

RT kerma

RT lagrangian function

RT linear momentum

RT moment of inertia

RT motion

RT particle rapidity

RT potential energy

RT velocity

RT virial theorem

### KINETIC EQUATIONS

1996-07-18

For reactor kinetics see REACTOR KINETICS EQUATIONS.

BT1 equations

NT1 boltzmann equation

RT collisions

RT gases

RT plasma

RT statistical mechanics

### kinetic experiment water boiler

1993-11-09

USE kewb reactor

### kinetic intense neutron generator

USE king reactor

### KINETICS

NT1 radionuclide kinetics

NT1 reaction kinetics

NT2 biochemical reaction kinetics

NT3 cpb

NT2 chemical reaction kinetics

NT3 combustion kinetics

NT2 nuclear reaction kinetics

NT1 reactor kinetics

RT collisions

RT deck effect

RT dynamics

RT gases

RT mechanics

RT motion

RT statistical mechanics

RT translocation

### kinetics equations (reactor)

USE reactor kinetics equations

### KINETIN

UF 6-furfurylamino purine

\*BT1 adenines

RT furans

RT plant growth

RT plant growth regulators

### KING REACTOR

LANL, Los Alamos, New Mexico, USA.

UF kinetic intense neutron generator

\*BT1 research reactors

### KINGSTON STEAM PLANT

INIS: 1992-06-04; ETDE: 1981-11-10

\*BT1 fossil-fuel power plants

RT tennessee

RT tennessee valley authority

### kininogenin

INIS: 2000-04-12; ETDE: 1981-01-12

(Prior to November 1990 this was a valid ETDE descriptor.)

USE kallikrein

### KININS

\*BT1 polypeptides

NT1 bradykinin

### KINK INSTABILITY

\*BT1 plasma macroinstabilities

RT sawtooth oscillations

### kinki university utr-10 reactor

2000-04-12

USE utr-10-kinki reactor

### KINSHASA

2000-04-12

\*BT1 democratic republic of the congo

### KIRCHHEIMERITE

2000-04-12

\*BT1 oxide minerals

\*BT1 uranium minerals

RT arsenic oxides

RT cobalt oxides

RT uranium oxides

### KIRIBATI

INIS: 1991-03-22; ETDE: 1991-04-09

\*BT1 micronesia

RT pacific ocean

### KIRKENDALL EFFECT

RT diffusion

### KISLOGUBSK POWER PLANT

2000-04-12

\*BT1 tidal power plants

### kisslinger model

INIS: 1976-02-11; ETDE: 2002-02-28

USE optical models

### KISSLINGER-SORENSEN THEORY

RT nuclear models

RT superconductivity

### KITES

2007-05-16

Small heavier-than-air craft flown in the wind at the end of a string or similar tether; NOT for the species of hawk with this name.

BT1 aircraft

### KIVITER PROCESS

INIS: 2000-04-12; ETDE: 1977-03-08

Coarsely sized shale is processed in downflow retort, with the raw shale preheating section near the top. Hot recycle gases and gas burner provide heat.

RT oil shales

### KIWI REACTORS

1985-07-18

(Prior to August 1985 KIWI TYPE REACTORS was used.)

UF kiwi type reactors

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

NT1 kiwi-tnt reactor

### KIWI-TNT REACTOR

2000-04-12

LANL, Los Alamos, New Mexico, USA. Shut down in 1965.

UF kiwi-transient test reactor

UF tntr-kiwi

UF transient nuclear test reactor-kiwi

\*BT1 experimental reactors

\*BT1 kiwi reactors

### kiwi-transient test reactor

2000-04-12

USE kiwi-tnt reactor

### kiwi type reactors

INIS: 1985-07-18; ETDE: 1980-05-23

(Prior to August 1985 this was a valid descriptor.)

USE kiwi reactors

### KIZILDERE GEOTHERMAL FIELD

INIS: 2000-04-12; ETDE: 1976-07-07

BT1 geothermal fields

RT turkey

### KJELDAHL METHOD

RT nitrogen

RT quantitative chemical analysis

### kkb reactor

1999-04-14

SEE brunsbuetel reactor

### kki isar

USE isar reactor

### kki isar-2

INIS: 2000-04-12; ETDE: 1982-10-05

USE isar-2 reactor

### kkk reactor

USE krummel reactor

### kkn reactor

USE niederaichbach reactor

### kkp-1 philippsburg reactor

USE philippsburg-1 reactor

### kkp-2 philippsburg reactor

USE philippsburg-2 reactor

**kks reactor**

USE stade reactor

**kku reactor**

USE unterweser reactor

**kkw greifswald-1 reactor**

INIS: 1984-04-04; ETDE: 2002-02-28

USE greifswald-1 reactor

**kkw greifswald-2 reactor**

INIS: 1984-04-04; ETDE: 2002-02-28

USE greifswald-2 reactor

**kkw greifswald-3 reactor**

INIS: 1984-04-04; ETDE: 2002-02-28

USE greifswald-3 reactor

**kkw greifswald-4 reactor**

INIS: 1984-04-04; ETDE: 2002-02-28

USE greifswald-4 reactor

**kkw greifswald-5 reactor**

2002-03-04

USE greifswald-5 reactor

**kkw greifswald-6 reactor**

2002-03-04

USE greifswald-6 reactor

**KLAMATH FALLS**

INIS: 2000-04-12; ETDE: 1982-02-11

BT1 kgra

RT geothermal fields

RT oregon

**KLEBSIELLA**

INIS: 1993-07-15; ETDE: 1979-07-18

\*BT1 bacteria

**KLEIN-GORDON EQUATION**

\*BT1 field equations

\*BT1 wave equations

RT quantum mechanics

**KLEIN-NISHINA FORMULA**

RT compton effect

**KLOCKNER-IRON BATH COAL GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1993-08-10

*Gasification in a liquid iron bath under pressure containing sulfur fixation agent with coal and oxygen fed from the bottom.*

\*BT1 coal gasification

**KLYSTRONS**

\*BT1 microwave tubes

RT gyrocons

RT magnetrons

RT power supplies

RT rf systems

**kmr reactor**

INIS: 1999-01-26; ETDE: 1991-07-30

(From July 1991 to January 1999 this was a valid descriptor.)

USE hanaro reactor

**KNIGHT EFFECT**

RT spectral shift

**KNIGHT SHIFT**

RT nuclear magnetic resonance

RT spectral shift

**knipp-bloch theory**

USE knipp-uhlenbeck theory

**KNIPP-UHLENBECK THEORY**

UF knipp-bloch theory

RT beta decay

**KNK-2 REACTOR***Forschungszentrum Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany.*

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 fast reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

\*BT1 szr type reactors

**KNK REACTOR***Forschungszentrum Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany.*

UF kompakte natriumgekuehlte reaktor

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

\*BT1 szr type reactors

\*BT1 thermal reactors

**KNOCK CONTROL**

INIS: 1999-05-12; ETDE: 1981-03-16

BT1 control

RT antiknock ratings

RT autoignition

RT automotive fuels

RT combustion

RT control equipment

RT internal combustion engines

**KNOCK-ON**

RT recoils

**knock-on electrons**

USE electrons

**KNOCK-ON REACTIONS**

\*BT1 direct reactions

RT knock-out reactions

**KNOCK-OUT REACTIONS**

\*BT1 direct reactions

RT knock-on reactions

RT recoils

**knolls atomic power laboratory**

USE kapl

**KNOOP HARDNESS**

RT hardness

**KNOWLEDGE BASE**

INIS: 1991-12-11; ETDE: 1985-09-24

*Facts, assumptions, beliefs, and heuristics; used in dealing with a data base to achieve desired results such as a diagnosis, an interpretation or a solution to a problem.*

RT artificial intelligence

RT expert systems

RT knowledge management

RT programming

**KNOWLEDGE MANAGEMENT**

2005-10-27

*Integrated and systematic approach to identifying, collecting, maintaining and sharing knowledge, and enabling the creation of new knowledge.*

BT1 management

NT1 knowledge preservation

RT information dissemination

RT information retrieval

RT information systems

RT knowledge base

**KNOWLEDGE PRESERVATION**

2005-10-27

\*BT1 knowledge management

RT documentation

**known geothermal resource area**

INIS: 2000-04-12; ETDE: 1976-05-27

USE kgra

**knu-10 reactor**

1991-07-02

USE ulchin-2 reactor

**knu-9 reactor**

1991-07-02

USE ulchin-1 reactor

**knudsen effusion**

USE knudsen flow

**KNUDSEN FLOW**

UF knudsen effusion

UF knudsen number

\*BT1 gas flow

RT vapor pressure

**KNUDSEN GAGES**

\*BT1 vacuum gages

**knudsen number**

USE knudsen flow

**KOBAYASHI-MASKAWA MATRIX**

INIS: 1984-01-18; ETDE: 1984-02-10

*Matrix describing the mixing between the three quark-lepton generations (u, d, e), (c, s, mu) and (t, b, tau) as a generalization of Cabibbo mixing with allowance of CP violation in the charged-current transition amplitude.*

UF mixing matrix (kobayashi-maskawa)

BT1 matrices

RT cabibbo angle

RT configuration mixing

RT cp invariance

RT flavor model

RT standard model

**KOEBERG-1 REACTOR**

INIS: 1975-11-07; ETDE: 1975-12-16

*Duynefontein, Cape, South Africa.*

UF escom-1 reactor

\*BT1 pwr type reactors

**KOEBERG-2 REACTOR**

INIS: 1982-01-14; ETDE: 1978-02-14

\*BT1 pwr type reactors

**KOLA-1 REACTOR**

INIS: 1981-10-15; ETDE: 1978-06-14

\*BT1 wwer type reactors

**KOLA-2 REACTOR**

INIS: 1981-10-15; ETDE: 1978-06-14

\*BT1 wwer type reactors

**KOLA-3 REACTOR**

INIS: 1981-10-15; ETDE: 1981-11-10

\*BT1 wwer type reactors

**KOLA-4 REACTOR**

INIS: 1981-10-15; ETDE: 1981-11-10

\*BT1 wwer type reactors

**kolmogorov equation**

2000-03-28

(Prior to March 1996 this was a valid ETDE descriptor.)

SEE chapman-kolmogorov equation

SEE fokker-planck equation

**kompakte natriumgekuehlte reaktor**

USE knk reactor

**KONDO EFFECT**

RT antiferromagnetic materials

**KONEL**

2000-04-12

- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 iron alloys
- \*BT1 nickel base alloys
- \*BT1 titanium alloys

**KONRAD ORE MINE**

INIS: 1989-11-24; ETDE: 1989-12-08

- \*BT1 mines
- \*BT1 radioactive waste facilities
- RT intermediate-level radioactive wastes
- RT low-level radioactive wastes
- RT shaft excavations
- RT underground disposal

**KOONGARRA DEPOSIT**

INIS: 1978-07-03; ETDE: 1978-08-07

- \*BT1 uranium deposits
- RT northern territory
- RT uranium ores

**KOPPERS PROCESS**

2000-04-12

*A process for production of water gas or synthesis gas from coal dust.*

- \*BT1 coal gasification

**KOPPERS-TOTZEK PROCESS**

2000-04-12

*A process in which all types of coal can be reacted at atmospheric pressure and 3300 degrees F with steam and oxygen in a gasifier (a refractory-lined, horizontal, cylindrical vessel with conical ends) to produce intermediate- or high-btu gas.*

- \*BT1 coal gasification
- RT sng processes

**koppers vacuum carbonate process**

INIS: 2000-04-12; ETDE: 1977-08-09

*(Prior to March 1994, this was a valid ETDE descriptor.)*

- USE desulfurization

**korea (north)**

- USE north korea

**korea (south)**

- USE republic of korea

**korea advanced energy research institute**

INIS: 1993-11-09; ETDE: 1982-02-09

- USE kaeri

**korea atomic energy research institute**

INIS: 1993-11-09; ETDE: 2000-10-13

- USE kaeri

**KOREAN ORGANIZATIONS**

INIS: 1981-12-23; ETDE: 1982-02-09

- BT1 national organizations
- NT1 kaeri

**korean triga-mk-2 reactor**

2000-04-12

- USE triga-2-seoul reactor

**korean triga-mk-3 reactor**

2000-04-12

- USE triga-3-seoul reactor

**KORI-1 REACTOR**

- UF *pusan kori-1 reactor*
- \*BT1 pwr type reactors

**KORI-2 REACTOR**

INIS: 1986-09-26; ETDE: 1977-04-12

- UF *pusan kori-2 reactor*

- \*BT1 pwr type reactors

**KORI-3 REACTOR**

1995-01-04

- UF *pusan kori-3 reactor*
- \*BT1 pwr type reactors

**KORI-4 REACTOR**

1995-01-04

- UF *pusan kori-4 reactor*
- \*BT1 pwr type reactors

**KORTEWEG-DE VRIES EQUATION**

- \*BT1 partial differential equations

**KOSHKONONG-1 REACTOR***Wisconsin Electric Power Co., Haven, Wisconsin, USA. As of July 1978 known as HAVEN-1 REACTOR, and from that date material is so indexed. Canceled in 1980.*

- \*BT1 haven-1 reactor

**KOSHKONONG-2 REACTOR***Wisconsin Electric Power Co., Haven, Wisconsin, USA. As of July 1978 known as HAVEN-1 REACTOR, and from that date material is so indexed. Canceled in 1978.*

- \*BT1 haven-2 reactor

**KOSMOS SATELLITES**

- BT1 satellites
- RT interkosmos satellites
- RT proton satellites

**KOSSEL METHOD**

- RT laue method

**KOSTERLITZ-THOULESS THEORY**

INIS: 1992-01-08; ETDE: 1991-03-04

- RT high-*tc* superconductors
- RT phase transformations
- RT superconductivity
- RT superfluidity

**KOVAR**

1993-10-03

- \*BT1 alloy-fe53ni29co18

**KOZLODUY-1 REACTOR**

1990-12-06

*Ministry of Energy, Kozloduy, Bulgaria. (Prior to December 1990, this descriptor was spelled KOZLODUJ-1 REACTOR by INIS.)*

- \*BT1 wwer type reactors

**KOZLODUY-2 REACTOR**

1990-12-06

*Ministry of Energy, Kozloduy, Bulgaria. (Prior to December 1990, this descriptor was spelled KOZLODUJ-2 REACTOR by INIS.)*

- \*BT1 wwer type reactors

**KOZLODUY-3 REACTOR**

INIS: 1990-12-06; ETDE: 1991-01-15

*Ministry of Energy, Kozloduy, Bulgaria. (Prior to December 1990, this descriptor was spelled KOZLODUJ-3 REACTOR by INIS.)*

- \*BT1 wwer type reactors

**KOZLODUY-4 REACTOR**

INIS: 1993-05-04; ETDE: 1994-08-10

*Ministry of Energy, Kozloduy, Bulgaria.*

- \*BT1 wwer type reactors

**KOZLODUY-5 REACTOR**

INIS: 1993-02-09; ETDE: 1993-03-04

*Ministry of Energy, Kozloduy, Bulgaria.*

- \*BT1 wwer type reactors

**KOZLODUY-6 REACTOR**

INIS: 1993-05-04; ETDE: 1994-08-10

*Ministry of Energy, Kozloduy, Bulgaria.*

- \*BT1 wwer type reactors

**KRAFLA GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1978-04-05

- BT1 geothermal fields
- RT iceland

**KRAMERS-KRONIG CORRELATION**

- BT1 correlations

**KRAMERS THEOREM**

- RT quantum mechanics

***krb ii-b reactor***

INIS: 1975-08-20; ETDE: 1976-05-19

- USE gundremmingen-2 reactor

***krb ii-c reactor***

INIS: 1975-08-20; ETDE: 1976-05-19

- USE gundremmingen-3 reactor

***krb reactor***

- USE rwe-bayernwerk reactor

**KREBS CYCLE**

- BT1 biological pathways
- RT metabolism
- RT metabolites
- RT mitochondria
- RT respiration

**KRIGING**

INIS: 1993-04-21; ETDE: 1983-10-11

*A statistical method for estimating spatial and/or temporal distribution of a material based on the theory of regionalized variables.*

- SF geostatistics
- \*BT1 statistics
- RT geologic surveys
- RT statistical models
- RT weighting functions

***kritische anlage zum htr***

INIS: 2000-04-12; ETDE: 1975-11-26

- USE kahter reactor

***krito critical assembly***

- USE stek reactor

**KRITZ REACTOR**

1993-02-10

*Studsvik High Temperature Critical Facility.*

- \*BT1 zero power reactors

**KROLL PROCESS**

- RT reduction
- RT titanium

**KROLL-RUDERMAN THEOREM**

1989-02-24

*(Prior to March, 1989, this descriptor was spelled KROLL-RUDERMANN THEOREM.)*

- RT photoproduction

***krov machine***

2000-04-12

*Keller roto-oscillating vane rotary vane and piston machine.**(Prior to April 1994, this was a valid ETDE descriptor.)*

- SEE rotary engines
- SEE rotors
- SEE turbines

**KRSKO REACTOR**

1997-11-03

*Krsko, Slovenia.*

- \*BT1 pwr type reactors

**KRUEMMEL REACTOR**UF *kkk reactor*

- \*BT1 bwr type reactors

**KRUSKAL LIMIT**

*RT* electric currents  
*RT* stellarators

**KRW GASIFICATION PROCESS**

*INIS: 2000-04-12; ETDE: 1985-07-19*  
 Formerly WESTINGHOUSE GASIFICATION  
 process; Kellogg Rust is majority owner.  
*UF* kellogg rust westinghouse process  
 \*BT1 coal gasification  
*RT* westinghouse gasification process

**KRYPTON**

\*BT1 rare gases

**KRYPTON 100**

2007-11-13  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 krypton isotopes

**KRYPTON 69**

*INIS: 1998-09-23; ETDE: 1997-06-28*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 krypton isotopes

**KRYPTON 70**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 krypton isotopes

**KRYPTON 71**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 krypton isotopes  
 \*BT1 milliseconds living radioisotopes

**KRYPTON 72**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 krypton isotopes  
 \*BT1 seconds living radioisotopes

**KRYPTON 73**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 krypton isotopes  
 \*BT1 seconds living radioisotopes

**KRYPTON 74**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 krypton isotopes  
 \*BT1 minutes living radioisotopes

**KRYPTON 75**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 krypton isotopes  
 \*BT1 minutes living radioisotopes

**KRYPTON 76**

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 krypton isotopes

**KRYPTON 76 TARGET**

*INIS: 1992-09-22; ETDE: 1985-05-31*  
 BT1 targets

**KRYPTON 77**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 krypton isotopes

**KRYPTON 77 TARGET**

*INIS: 1992-09-22; ETDE: 1985-05-31*  
 BT1 targets

**KRYPTON 78**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 krypton isotopes  
 \*BT1 stable isotopes

**KRYPTON 78 TARGET**

*INIS: 1977-01-25; ETDE: 1976-09-28*  
 BT1 targets

**KRYPTON 79**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 krypton isotopes  
 \*BT1 seconds living radioisotopes

**KRYPTON 80**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 krypton isotopes  
 \*BT1 stable isotopes

**KRYPTON 80 REACTIONS**

*INIS: 1986-10-29; ETDE: 1986-11-20*  
 \*BT1 heavy ion reactions

**KRYPTON 80 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
 BT1 targets

**KRYPTON 81**

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 krypton isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 years living radioisotopes

**KRYPTON 82**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 krypton isotopes  
 \*BT1 stable isotopes

**KRYPTON 82 REACTIONS**

*INIS: 1987-05-26; ETDE: 1987-06-09*  
 \*BT1 heavy ion reactions

**KRYPTON 82 TARGET**

*INIS: 1977-01-25; ETDE: 1976-09-28*  
 BT1 targets

**KRYPTON 83**

\*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 krypton isotopes  
 \*BT1 stable isotopes  
*RT* krypton 83 reactions

**KRYPTON 83 REACTIONS**

\*BT1 heavy ion reactions  
*RT* krypton 83

**KRYPTON 83 TARGET**

*INIS: 1977-01-25; ETDE: 1976-09-28*  
 BT1 targets

**KRYPTON 84**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 krypton isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 stable isotopes  
*RT* krypton 84 reactions

**KRYPTON 84 BEAMS**

\*BT1 ion beams

**KRYPTON 84 REACTIONS**

\*BT1 heavy ion reactions  
*RT* krypton 84

**KRYPTON 84 TARGET**

*ETDE: 1976-07-12*  
 BT1 targets

**KRYPTON 85**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 krypton isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 years living radioisotopes

**KRYPTON 85 TARGET**

*INIS: 1985-11-18; ETDE: 1977-03-04*  
 BT1 targets

**KRYPTON 86**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 krypton isotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 stable isotopes

**KRYPTON 86 BEAMS**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
 \*BT1 ion beams

**KRYPTON 86 REACTIONS**

*INIS: 1976-10-29; ETDE: 1976-12-16*  
 \*BT1 heavy ion reactions

**KRYPTON 86 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**KRYPTON 87**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 krypton isotopes

**KRYPTON 88**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 krypton isotopes

**KRYPTON 89**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 krypton isotopes  
 \*BT1 minutes living radioisotopes



**KRYPTON 90**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 91**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 92**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 94**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 milliseconds living radioisotopes

**KRYPTON 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 milliseconds living radioisotopes

**KRYPTON 96**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 nanoseconds living radioisotopes

**KRYPTON 98**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 99**

2007-11-13

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 milliseconds living radioisotopes

**KRYPTON BROMIDES**

INIS: 2000-04-12; ETDE: 1980-11-08

- \*BT1 bromides
- \*BT1 krypton compounds

**KRYPTON CHLORIDE LASERS**

INIS: 2000-04-12; ETDE: 1984-08-20

- \*BT1 excimer lasers

**KRYPTON CHLORIDES**

- \*BT1 chlorides
- \*BT1 krypton compounds

**KRYPTON COMPLEXES**

- BT1 complexes

**KRYPTON COMPOUNDS**

1997-06-17

- UF *kryptonates*
- BT1 rare gas compounds
- NT1 krypton bromides
- NT1 krypton chlorides
- NT1 krypton fluorides
- NT1 krypton hydrides
- NT1 krypton oxides

**KRYPTON FLUORIDE LASERS**

INIS: 1986-01-21; ETDE: 1984-08-06

- \*BT1 excimer lasers
- RT aurora facility

**KRYPTON FLUORIDES**

- \*BT1 fluorides
- \*BT1 krypton compounds

**KRYPTON HYDRIDES**

- \*BT1 hydrides
- \*BT1 krypton compounds

**KRYPTON IONS**

- \*BT1 ions

**KRYPTON ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 krypton 100
- NT1 krypton 69
- NT1 krypton 70
- NT1 krypton 71
- NT1 krypton 72
- NT1 krypton 73
- NT1 krypton 74
- NT1 krypton 75
- NT1 krypton 76
- NT1 krypton 77
- NT1 krypton 78
- NT1 krypton 79
- NT1 krypton 80
- NT1 krypton 81
- NT1 krypton 82
- NT1 krypton 83
- NT1 krypton 84
- NT1 krypton 85
- NT1 krypton 86
- NT1 krypton 87
- NT1 krypton 88
- NT1 krypton 89
- NT1 krypton 90
- NT1 krypton 91
- NT1 krypton 92
- NT1 krypton 93
- NT1 krypton 94
- NT1 krypton 95
- NT1 krypton 96
- NT1 krypton 97
- NT1 krypton 98
- NT1 krypton 99

**KRYPTON OXIDES**

- \*BT1 krypton compounds
- \*BT1 oxides

***kryptonates***

- USE krypton compounds

***ks-150 reactor***

- USE bohunice a-1 reactor

**KSTR REACTOR**Keuring van Electrotechnische Materialen  
N.V., Arnhem, Netherlands.

- UF *kema suspension test reactor*
- \*BT1 aqueous homogeneous reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors

**KT-2 TOKAMAK**

INIS: 1997-10-13; ETDE: 2001-06-11

KAERI, Daejeon, Republic of Korea.

- \*BT1 tokamak devices

**KUBO FORMULA**

- UF *kubo method*
- UF *kubo theory*
- RT statistical mechanics

***kubo method***

- USE kubo formula

***kubo theory***

- USE kubo formula

**KUCA REACTOR**

INIS: 1983-10-14; ETDE: 1976-06-07

Kyoto Univ., Kumatori, Osaka, Japan.

- UF *kyoto university critical assembly reactor*

- \*BT1 enriched uranium reactors
- \*BT1 graphite moderated reactors
- \*BT1 water moderated reactors
- \*BT1 zero power reactors

**KUDANKULAM-1 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd.,  
Kudankulam, Tamil Nadu, India.

- \*BT1 wwer type reactors

**KUDANKULAM-2 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd.,  
Kudankulam, Tamil Nadu, India.

- \*BT1 wwer type reactors

**KUHFR REACTOR**

1979-11-02

Kyoto Univ., Kumatori, Osaka, Japan.

- UF *kyoto university high flux reactor*
- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**KUOSHENG-1 REACTOR**

INIS: 1978-02-23; ETDE: 1976-03-25

- \*BT1 bwr type reactors

**KUOSHENG-2 REACTOR**

INIS: 1978-02-23; ETDE: 1976-03-25

- \*BT1 bwr type reactors

***kupffer cells***

- USE reticuloendothelial system

**KUR REACTOR**

Kyoto Univ., Kumatori, Osaka, Japan.

- UF *kyoto university reactor*
- UF *training-research reactor kyoto*
- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 training reactors

***kurchatov institute romashka reactor***

- USE romashka reactor

***kurchatovium***

- USE rutherfordium

***kureha acetate process***

INIS: 2000-04-12; ETDE: 1983-08-25

Sodium acetate-gypsum process for removal  
of sulfur dioxide from utility flue gas.  
(Prior to March 1994, this was a valid ETDE  
descriptor.)

- USE desulfurization

**kurie plot**

USE fermi plot

**KURILE ISLANDS**

INIS: 2000-04-12; ETDE: 1978-06-14

BT1 islands

\*BT1 russian federation

RT pacific ocean

**KURSK-1 REACTOR**

1983-06-30

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**KURSK-2 REACTOR**

1984-08-23

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**KURSK-3 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**KURSK-4 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**kurtosis**

INIS: 1996-03-04; ETDE: 1996-02-26

USE distribution

USE statistics

**KUWAIT**

1976-11-08

BT1 arab countries

BT1 asia

BT1 developing countries

BT1 middle east

RT oapec

RT opec

**kvb process**

INIS: 2000-04-12; ETDE: 1978-04-27

*Dry oxidation of the sulfurous component of dry pulverized coal with gaseous nitrogen oxygen is followed by caustic washing to solubilize and remove sulfur compounds generated. The active oxidant, nitrogen dioxide, can be generated at operating temperature and pressure in the reaction chamber by oxidation of no feed gas.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**KVI**

INIS: 1977-09-06; ETDE: 1977-10-19

UF groningen versneller instituut

UF kernfysisch versneller instituut

\*BT1 netherlands organizations

**KVI CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24

*Kernfysisch Versneller Instituut, Groningen.*

UF groningen (kvi) cyclotron

UF kernfysisch versneller instituut cyclotron

\*BT1 heavy ion accelerators

\*BT1 isochronous cyclotrons

**kwl reactor**

USE lingen reactor

**kwo reactor**

USE obrigheim reactor

**kws-1 wyhl reactor**

INIS: 1975-10-31; ETDE: 1975-12-16

USE wyhl-1 reactor

**kws-2 wyhl reactor**

INIS: 1975-10-31; ETDE: 1975-12-16

USE wyhl-2 reactor

**kynurenic acid**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE heterocyclic acids

USE hydroxy compounds

USE quinolines

**KYNURENINE**

1996-07-18

\*BT1 amino acids

\*BT1 keto acids

**KYOTO PROTOCOL**

2000-09-26

*Kyoto Protocol to the UN Framework**Convention on Global Climate Change.*

\*BT1 multilateral agreements

RT climatic change

RT emissions tax

RT emissions trading

RT environmental impacts

RT environmental policy

RT environmental protection

RT greenhouse effect

RT greenhouse gases

RT pollution laws

**kyoto university critical assembly reactor**

INIS: 1993-11-09; ETDE: 1976-06-07

USE kuca reactor

**kyoto university high flux reactor**

1979-11-02

USE kuhfr reactor

**kyoto university reactor**

USE kur reactor

**KYRGYZSTAN**

INIS: 1997-08-20; ETDE: 1993-04-08

(Until January 1993, this was indexed by USSR.)

SF soviet union

SF union of soviet socialist republics

SF ussr

BT1 asia

**KYSHTYM PLANT**

INIS: 1996-06-26; ETDE: 1994-01-06

BT1 nuclear facilities

RT russian federation

**kyushu-1 reactor**

USE genkai-1 reactor

**kyushu-2 reactor**

INIS: 1979-09-18; ETDE: 1979-10-23

USE genkai-2 reactor

**kyushu-3 reactor**

INIS: 2000-04-12; ETDE: 1979-10-23

USE sendai-1 reactor

**kyushu-4 reactor**

INIS: 2000-04-12; ETDE: 1985-07-18

USE genkai-4 reactor

**l-1 stellarator**

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor.)

SEE l-2 stellarator

**l-1770 resonances**

2000-04-12

(Prior to August 1988, this was a valid ETDE descriptor.)

USE strange mesons

**L-2 STELLARATOR**

1977-11-02

SF l-1 stellarator

\*BT1 stellarators

**l-54 reactor**

USE cesnef reactor

**l-77 atomics international reactor**

1993-11-09

USE ai-l-77 reactor

**l-77 nevada university reactor**

2000-04-12

USE nevada university reactor

**l-77 puerto rico reactor**

USE prnc-l-77 reactor

**l-alanine**

USE alanine-l

**l-alanine-alpha**

USE alanine-l

**L CAPTURE**

\*BT1 electron capture decay

**L CELLS**

RT clone cells

RT fibroblasts

RT in vitro

**L CODES**

BT1 computer codes

**L CONVERSION**

UF l-conversion coefficient

\*BT1 internal conversion

**l-conversion coefficient**

USE l conversion

**L-MODE PLASMA CONFINEMENT**

INIS: 1999-07-26; ETDE: 1999-09-03

*An operational regime in neutral-beam-injection-heated divertor tokamaks.*

\*BT1 magnetic confinement

RT h-mode plasma confinement

**L REACTOR**

INIS: 1983-03-16; ETDE: 1982-05-12

*Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.*

UF savannah river plant l reactor

\*BT1 heavy water moderated reactors

\*BT1 special production reactors

**l resonances**

2000-04-12

SEE k2-1770 mesons

**L-S COUPLING**

UF russell-saunders coupling

UF spin-orbit interaction

\*BT1 intermediate coupling

RT orbital angular momentum

**L SHELL**

INIS: 1976-07-06; ETDE: 1976-08-24

Atomic electron shells.

- UF atomic shells (l)  
BT1 electronic structure

**l waves**

INIS: 2000-04-12; ETDE: 1978-07-05

- USE seismic surface waves

**la crosse boiling water reactor**

- USE lacbwr reactor

**la jolla triga-mk-3 reactor**

INIS: 1984-06-21; ETDE: 2002-03-09

- USE triga-3-la jolla reactor

**la reina reactor**

INIS: 2000-04-12; ETDE: 1985-05-31

- USE research reactors

**LA REINA RECH-1 REACTOR**

INIS: 1989-02-24; ETDE: 1989-03-20

La Reina, Santiago, Chile.

- \*BT1 pool type reactors  
\*BT1 research reactors

**LA SALLE COUNTY-1 REACTOR**

Exelon Generation Co., LLC, Seneca, Illinois, USA.

- \*BT1 bwr type reactors

**LA SALLE COUNTY-2 REACTOR**

Exelon Generation Co., LLC, Seneca, Illinois, USA.

- \*BT1 bwr type reactors

**LABELLED COMPOUNDS**

Compounds labelled with either stable or radioactive isotopes.

- NT1 carbon 14 compounds  
NT1 radiopharmaceuticals  
RT autoradiography  
RT autoradiolysis  
RT carrier-free isotopes  
RT diagnosis  
RT double labelling  
RT electron microscopy  
RT labelling  
RT nuclear medicine  
RT radioenzymatic assay  
RT radioimmunoassay  
RT radioimmunodetection  
RT scintiscanning  
RT tracer techniques  
RT tritium compounds  
RT wilzbach method

**LABELLED POOL TECHNIQUES**

INIS: 1985-07-18; ETDE: 1975-10-28

(Prior to August 1985 LABELLED POOL TECHNIQUE was a valid INIS descriptor.)

- \*BT1 tracer techniques  
RT labelling  
RT metabolism

**LABELLING**

For labelling of packages use PACKAGING RULES.

- NT1 double labelling  
NT1 wilzbach method  
RT carbon 14 compounds  
RT carrier-free isotopes  
RT isotope applications  
RT isotopic exchange  
RT labelled compounds  
RT labelled pool techniques  
RT radioactivation

**labelling (packages)**

INIS: 1987-11-02; ETDE: 2002-03-09

- USE packaging rules

**labor**

INIS: 2000-03-28; ETDE: 1977-08-09

(Prior to March 1997 this was a valid ETDE descriptor.)

- SEE employment  
SEE manpower  
SEE personnel  
SEE work

**LABOR RELATIONS**

INIS: 1991-10-24; ETDE: 1978-02-14

- UF industrial relations  
RT industry  
RT management  
RT personnel  
RT working conditions

**LABORATORIES**

INIS: 1986-03-04; ETDE: 1980-01-15

- NT1 hot labs  
RT buildings  
RT laboratory animals  
RT laboratory buildings  
RT laboratory equipment  
RT nuclear facilities  
RT research programs

**LABORATORY ANIMALS**

- BT1 animals  
RT laboratories

**LABORATORY BUILDINGS**

INIS: 1999-12-07; ETDE: 1980-04-14

- BT1 buildings  
RT laboratories  
RT laboratory equipment  
RT school buildings

**LABORATORY EQUIPMENT**

- BT1 equipment  
NT1 dna sequencers  
NT1 fume hoods  
NT1 gloveboxes  
NT1 hot cells  
NT1 manipulators  
NT1 vacuum pumps  
NT2 cryopumps  
NT2 sputter-ion pumps  
NT2 turbomolecular pumps  
RT accelerator facilities  
RT autoclaves  
RT bench-scale experiments  
RT extraction apparatuses  
RT hot labs  
RT laboratories  
RT laboratory buildings  
RT mixer-settlers  
RT portable equipment  
RT remote handling equipment  
RT remote viewing equipment  
RT sample changers  
RT test facilities

**laboratory scale experiments**

1981-05-11

- USE bench-scale experiments

**LABORATORY SYSTEM**

- RT center-of-mass system  
RT coordinates  
RT limiting fragmentation  
RT lorentz transformations  
RT mechanics  
RT scattering

**labyrinth**

- USE auditory organs  
USE vestibular apparatus

**LACBWR REACTOR**

Dairyland Power Cooperative, Genoa, Wisconsin, USA. Shut down in 1987.

- UF la crosse boiling water reactor  
\*BT1 bwr type reactors

**LACQUERS**

- BT1 coatings

**LACRIMAL DUCTS**

INIS: 1977-07-05; ETDE: 1977-10-19

- UF ducts (tear)  
UF tear canals  
\*BT1 eyes

**LACTAMS**

- UF cyclic amides  
\*BT1 amides  
NT1 pyrrolidones  
NT2 pvp  
RT amino acids  
RT heterocyclic compounds

**LACTATE DEHYDROGENASE**

- \*BT1 hemiacetal dehydrogenases

**LACTATES**

INIS: 1981-09-17; ETDE: 1981-10-24

- BT1 carboxylic acid salts  
RT lactic acid

**LACTATION**

- RT mammary glands  
RT milk

**LACTIC ACID**

- UF hydroxypropionic acid-alpha  
\*BT1 hydroxy acids  
RT lactates

**LACTOBACILLUS**

- \*BT1 bacteria

**LACTOFERRIN**

INIS: 1981-08-06; ETDE: 1981-04-17

- \*BT1 globulins  
\*BT1 glucoproteins  
\*BT1 metalloproteins  
\*BT1 organometallic compounds  
RT iron complexes

**LACTOGENS**

INIS: 1982-12-07; ETDE: 1979-02-27

- NT1 hpl  
RT peptide hormones  
RT pituitary gland  
RT placenta

**LACTONES**

- UF cyclic esters  
\*BT1 esters  
\*BT1 heterocyclic compounds  
NT1 coumarin  
NT1 gibberellic acid  
RT hydroxy acids

**LACTOSE**

- UF milk sugar  
\*BT1 disaccharides

**LADDER APPROXIMATION**

- \*BT1 approximations  
RT quantum field theory

**lage flux reaktor petten**

- USE lfr reactor

**lago maggiore**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE lakes

**LAGRANGE EQUATIONS**

- \*BT1 partial differential equations

*RT* lagrangian function  
*RT* mechanics

**lagrange field equations**  
USE lagrangian field theory

**lagrangian**  
USE lagrangian function

**LAGRANGIAN FIELD THEORY**  
*UF* canonical quantum field theory  
*UF* gross-neveu model  
*UF* lagrange field equations  
\*BT1 quantum field theory

**LAGRANGIAN FUNCTION**  
*UF* lagrangian  
BT1 functions  
*RT* equations of motion  
*RT* kinetic energy  
*RT* lagrange equations  
*RT* mechanics  
*RT* potential energy

**LAGUERRE POLYNOMIALS**  
\*BT1 polynomials

**LAGUNA VERDE-1 REACTOR**  
1978-02-23  
*Alto Lucero, Veracruz, Mexico.*  
\*BT1 bwr type reactors

**LAGUNA VERDE-2 REACTOR**  
*INIS: 1987-02-25; ETDE: 1982-02-08*  
*Alto Lucero, Veracruz, Mexico.*  
\*BT1 bwr type reactors

**LAKE BAIKAL**  
*INIS: 1984-10-19; ETDE: 1984-11-06*  
\*BT1 lakes

**LAKE BALATON**  
1983-09-06  
\*BT1 lakes

**LAKE DRUKSHIAI**  
*INIS: 1997-09-16; ETDE: 1997-08-23*  
*Cooling pond of Ignalina Nuclear Power Plant.*  
*UF* lake drysviaty  
\*BT1 lakes

**lake drysviaty**  
1997-08-20  
USE lake drukshiai

**LAKE ERIE**  
\*BT1 great lakes

**LAKE HURON**  
\*BT1 great lakes

**LAKE MICHIGAN**  
\*BT1 great lakes

**LAKE ONTARIO**  
\*BT1 great lakes

**LAKE SUPERIOR**  
1980-07-24  
\*BT1 great lakes

**LAKE WABAMUN**  
*INIS: 2000-04-12; ETDE: 1975-11-28*  
\*BT1 lakes  
*RT* canada

**LAKES**  
1997-08-20  
(Prior to March 1997 LAGO MAGGIORE was a valid ETDE descriptor.)  
*UF* lago maggiore  
BT1 surface waters  
NT1 ambrosia lake  
NT1 aral sea

NT1 athabasca lake  
NT1 caspian sea  
NT1 dead sea  
NT1 great lakes  
NT2 lake erie  
NT2 lake huron  
NT2 lake michigan  
NT2 lake ontario  
NT2 lake superior  
NT1 great salt lake  
NT1 lake baikal  
NT1 lake balaton  
NT1 lake drukshiai  
NT1 lake wabamun  
NT1 salton sea  
*RT* cooling ponds  
*RT* eutrophication  
*RT* fresh water  
*RT* hydrology  
*RT* inland waterways  
*RT* ponds  
*RT* shores  
*RT* water currents  
*RT* water reservoirs

**lamb-rutherford shift**

2000-04-12

USE lamb shift

**LAMB SHIFT***UF* lamb-rutherford shift

BT1 spectral shift

*RT* energy levels**lambda-1115 resonances***INIS: 1987-12-21; ETDE: 2002-03-09*

(Prior to December 1987 this was a valid descriptor.)

USE lambda particles

**LAMBDA-1405 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-19*

(Prior to December 1987 this concept was indexed by LAMBDA-1405 RESONANCES.)

*UF* lambda-1405 resonances

\*BT1 lambda baryons

**lambda-1405 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1405 baryons

**LAMBDA-1520 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-19*

(Prior to December 1987 this concept was indexed by LAMBDA-1520 RESONANCES.)

*UF* lambda-1520 resonances

\*BT1 lambda baryons

**lambda-1520 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1520 baryons

**LAMBDA-1600 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-19*

\*BT1 lambda baryons

**LAMBDA-1670 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-19*

(Prior to December 1987 this concept was indexed by LAMBDA-1670 RESONANCES.)

*UF* lambda-1670 resonances

\*BT1 lambda baryons

**lambda-1670 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1670 baryons

**LAMBDA-1690 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-19*

(Prior to December 1987 this concept was indexed by LAMBDA-1690 RESONANCES.)

*UF* lambda-1690 resonances

\*BT1 lambda baryons

**lambda-1690 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1690 baryons

**LAMBDA-1800 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-19*

\*BT1 lambda baryons

**LAMBDA-1810 BARYONS**

1995-07-17

\*BT1 lambda baryons

**lambda-1815 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1820 baryons

**LAMBDA-1820 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-19*

(Prior to December 1987 this concept was indexed by LAMBDA-1815 RESONANCES.)

*UF* lambda-1815 resonances

\*BT1 lambda baryons

**LAMBDA-1830 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-25*

(Prior to December 1987 this concept was indexed by LAMBDA-1830 RESONANCES.)

*UF* lambda-1830 resonances

\*BT1 lambda baryons

**lambda-1830 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1830 baryons

**LAMBDA-1890 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-25*

\*BT1 lambda baryons

**LAMBDA-2100 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-25*

(Prior to December 1987 this concept was indexed by LAMBDA-2100 RESONANCES.)

*UF* lambda-2100 resonances

\*BT1 lambda baryons

**lambda-2100 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-2100 baryons

**LAMBDA-2110 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-25*

\*BT1 lambda baryons

**lambda-2250 resonances***INIS: 1985-01-17; ETDE: 1978-10-23*

(Prior to January 1985 this was a valid ETDE descriptor.)

USE lambda c plus baryons

**lambda-2260 resonances***INIS: 2000-04-12; ETDE: 1979-09-26*

USE lambda c plus baryons

**lambda 2282 resonances***INIS: 2000-04-12; ETDE: 1985-02-22*

USE lambda c plus baryons

**LAMBDA B NEUTRAL BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 beauty baryons

**LAMBDA BARYONS**

INIS: 1995-07-17; ETDE: 1988-02-19

\*BT1 hyperons

NT1 lambda-1405 baryons

NT1 lambda-1520 baryons

NT1 lambda-1600 baryons

NT1 lambda-1670 baryons

NT1 lambda-1690 baryons

NT1 lambda-1800 baryons

NT1 lambda-1810 baryons

NT1 lambda-1820 baryons

NT1 lambda-1830 baryons

NT1 lambda-1890 baryons

NT1 lambda-2100 baryons

NT1 lambda-2110 baryons

NT1 lambda particles

NT2 antilambda particles

**LAMBDA C-2625 BARYONS**

1995-07-17

\*BT1 charmed baryons

**lambda c plus**

INIS: 1987-12-21; ETDE: 1985-01-28

(Prior to December 1987 this was a valid descriptor.)

USE lambda c plus baryons

**LAMBDA C PLUS BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by LAMBDA C PLUS.)

UF c-2260 resonances

UF lambda-2250 resonances

UF lambda-2260 resonances

UF lambda 2282 resonances

UF lambda c plus

\*BT1 charmed baryons

**LAMBDA-N-2130 DIBARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 dibaryons

\*BT1 hyperons

**lambda neutral**

USE lambda particles

**LAMBDA PARTICLE BEAMS**

\*BT1 hyperon beams

**LAMBDA PARTICLES**

UF lambda-1115 resonances

UF lambda neutral

\*BT1 lambda baryons

NT1 antilambda particles

**LAMBDA POINT**

\*BT1 transition temperature

RT helium 4

RT superfluidity

**LAMBERT LAW**

RT angular distribution

**lambs**

USE sheep

**LAMELLAE**

RT layers

**laminac**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE plastics

USE polyesters

**LAMINAR FLAMES**

2007-01-08

BT1 flames

RT laminar flow

**LAMINAR FLOW**

UF poiseuille flow

UF subcritical flow

BT1 fluid flow

RT critical flow

RT ideal flow

RT laminar flames

RT turbulent flow

RT viscous flow

**LAMINARIA**

\*BT1 chromophycota

\*BT1 seaweeds

RT alginates

**laminography**

USE tomography

**LAMPF II SYNCHROTRON**

INIS: 1983-06-30; ETDE: 1983-03-07

6 to 32 GeV proton synchrotron addition to Los Alamos Meson Physics Facility.

\*BT1 meson factories

\*BT1 synchrotrons

**LAMPF LINAC**

UF clinton p. anderson meson physics facility

UF los alamos meson physics facility

\*BT1 linear accelerators

\*BT1 meson factories

**LAMPRE-1 REACTOR**

LANL, Los Alamos, New Mexico, USA.

UF los alamos molten plutonium reactor experiment

\*BT1 experimental reactors

\*BT1 fast reactors

\*BT1 plutonium reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**lampre-2 reactor**

USE frctf reactor

**LAMPROPHYRES**

INIS: 2000-04-12; ETDE: 1980-08-12

\*BT1 volcanic rocks

NT1 kimberlites

**lamps**

INIS: 2000-04-12; ETDE: 1977-07-23

USE light bulbs

**land application**

INIS: 2000-04-12; ETDE: 1978-08-08

USE ground disposal

**land fills**

INIS: 1982-09-21; ETDE: 1976-09-28

USE sanitary landfills

**LAND LEASING**

1992-03-10

BT1 leasing

RT land resources

RT land use

RT leases

RT legal aspects

RT regulations

**LAND OWNERSHIP**

INIS: 1992-03-10; ETDE: 1981-08-04

BT1 ownership

RT land resources

RT land use

RT legal aspects

RT mineral rights

**LAND POLLUTION**

For nonradioactive pollution only; for radioactive pollution use CONTAMINATION.

BT1 pollution

RT acid mine drainage

RT environmental effects

RT environmental exposure

RT land pollution abatement

RT land pollution control

RT land use

**LAND POLLUTION ABATEMENT**

INIS: 1992-03-11; ETDE: 1976-07-07

The prevention of formation of pollutants at the source.

SF prevention of significant deterioration

SF psd

BT1 pollution abatement

RT land pollution

RT land reclamation

**LAND POLLUTION CONTROL**

INIS: 1992-03-11; ETDE: 1977-03-04

The removal or management of pollutants after they are formed by a source.

\*BT1 pollution control

RT land pollution

RT land reclamation

RT land use

RT natural attenuation

**LAND RECLAMATION**

1976-07-16

SF mine site rehabilitation

SF reclamation

RT abandoned sites

RT aesthetics

RT backfilling

RT land pollution abatement

RT land pollution control

RT land resources

RT land use

RT liming

RT natural attenuation

RT preferred species

RT remedial action

RT revegetation

RT soil conservation

RT spoil banks

**LAND REQUIREMENTS**

INIS: 1992-10-19; ETDE: 1977-11-29

BT1 demand

RT land resources

RT land use

**LAND RESOURCES**

INIS: 1992-03-10; ETDE: 1982-01-07

BT1 resources

RT land leasing

RT land ownership

RT land reclamation

RT land requirements

RT land use

RT public lands

RT terrestrial ecosystems

**LAND TRANSPORT**

INIS: 1976-12-08; ETDE: 1977-06-24

BT1 transport

NT1 rail transport

NT1 road transport

RT carpooling

RT vanpooling

**LAND USE**

1976-07-16

(From May 1980 till March 1997 ZONING was a valid ETDE descriptor.)

UF zoning

RT arid lands  
 RT eminent domain  
 RT environment  
 RT external zones  
 RT farms  
 RT land leasing  
 RT land ownership  
 RT land pollution  
 RT land pollution control  
 RT land reclamation  
 RT land requirements  
 RT land resources  
 RT landscaping  
 RT mineral rights  
 RT nature reserves  
 RT recreational areas  
 RT regional analysis  
 RT regional cooperation  
 RT rights-of-way  
 RT site selection  
 RT water use  
 RT watersheds  
 RT wilderness protection acts

**landau absorption**

USE landau damping

**LANDAU CURVES**

RT s matrix  
 RT scattering  
 RT singularity

**LANDAU DAMPING**

UF landau absorption  
 BT1 damping  
 RT plasma waves  
 RT transit-time magnetic pumping

**landau distribution**

USE landau fluctuations

**landau domain structure**

1976-03-25

Structure proposed by Landau for intermediate state when magnetic field is applied at acute angle to thin flat superconducting plate. Coordinate SUPERCONDUCTORS or descriptor(s) for the specific superconductor(s) with the term below.

(From January 1975 until March 1996 this was a valid ETDE descriptor.)

USE domain structure

**LANDAU FLUCTUATIONS**

1999-07-15

UF landau distribution  
 \*BT1 fluctuations  
 RT energy losses

**landau-ginzburg-pitaevskii theory**

USE ginzburg-pitaevskii theory

**LANDAU LIQUID HELIUM THEORY**

UF two-fluid theory  
 RT helium ii  
 RT phonons  
 RT rotons  
 RT superfluidity

**LANDAU QUASI PARTICLES**

BT1 quasi particles  
 RT particle structure  
 RT quark model

**LANDAU-ZENER FORMULA**

RT collisions  
 RT potential energy

**LANDE FACTOR**

UF g factor (lande)  
 UF lande g factor

UF lande interval factor  
 UF lande splitting factor  
 BT1 dimensionless numbers  
 RT energy levels

**lande g factor**

USE lande factor

**lande interval factor**

USE lande factor

**lande splitting factor**

USE lande factor

**LANDFILL GAS**

2006-05-15

\*BT1 fuel gas  
 RT carbon dioxide  
 RT methane  
 RT sanitary landfills

**landfills**

INIS: 1982-09-21; ETDE: 1979-11-23

USE sanitary landfills

**landforms**

INIS: 2000-04-12; ETDE: 1980-05-06

USE geomorphology

**LANDGARD PYROLYSIS SYSTEM**

INIS: 2000-04-12; ETDE: 1976-01-23

UF landgard solid waste disposal system  
 UF Monsanto system  
 \*BT1 waste processing  
 RT pyrolysis  
 RT solid wastes  
 RT waste processing plants

**landgard solid waste disposal system**

INIS: 2000-04-12; ETDE: 1976-02-24

USE landgard pyrolysis system

**LANDSAT SATELLITES**

INIS: 1983-06-02; ETDE: 1980-03-04

BT1 satellites  
 RT aerial surveying  
 RT exploration  
 RT remote sensing

**LANDSCAPING**

INIS: 1997-06-17; ETDE: 1977-06-21

RT aesthetics  
 RT earth berms  
 RT land use

**LANDSLIDES**

1980-09-12

RT blast effects  
 RT earthquakes  
 RT ground motion  
 RT mining  
 RT rain  
 RT seismic effects  
 RT slope stability  
 RT underground explosions

**LANE-ROBSON THEORY**

RT nuclear reactions  
 RT scattering

**LANE-THOMAS-WIGNER MODEL**

\*BT1 nuclear models

**LANGEVIN EQUATION**

BT1 equations  
 RT magnetic fields

**LANGMUIR FREQUENCY**

UF frequency (langmuir)  
 UF plasma frequency  
 RT plasma

**langmuir oscillations**

USE plasma waves

**LANGMUIR PROBE**

\*BT1 electric probes

**languages (programming)**

USE programming languages

**LANL**

INIS: 1995-04-03; ETDE: 1989-06-30

Until 1980 known as Los Alamos Scientific Laboratory, and older material is indexed to

LASL.

UF lasl  
 UF los alamos national laboratory  
 UF los alamos scientific laboratory  
 \*BT1 us doe  
 RT antares facility  
 RT aurora facility  
 RT helios facility  
 RT new mexico  
 RT trident facility

**lanolin**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE esters  
 USE lipids  
 USE sterols

**lanoxin**

USE digoxin

**lans**

1994-04-12

USE local area networks

**lanthanides**

USE rare earths

**LANTHANUM**

\*BT1 rare earths

**LANTHANUM 117**

2007-11-20

\*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rare earth nuclei

**LANTHANUM 118**

2007-11-20

\*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LANTHANUM 119**

2007-11-20

\*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LANTHANUM 120**

INIS: 1984-08-23; ETDE: 1984-09-05

\*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LANTHANUM 121**

INIS: 1989-02-24; ETDE: 1989-03-20

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes

- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 122**

*INIS: 1984-08-23; ETDE: 1984-09-05*

- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 123**

*INIS: 1979-02-21; ETDE: 1979-03-28*

- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 124**

- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 125**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 126**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 127**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 128**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 129**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 130**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 131**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

- \*BT1 rare earth nuclei

**LANTHANUM 132**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 133**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 134**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 135**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 136**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 137**

- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LANTHANUM 138**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LANTHANUM 139**

- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**LANTHANUM 139 BEAMS**

*INIS: 1979-01-18; ETDE: 1979-02-23*

- \*BT1 ion beams

**LANTHANUM 139 REACTIONS**

*INIS: 1976-01-28; ETDE: 1976-03-12*

- \*BT1 heavy ion reactions

**LANTHANUM 139 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**LANTHANUM 140**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 142**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 147**

*INIS: 1977-06-13; ETDE: 1977-10-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 148**

*INIS: 1977-06-13; ETDE: 1977-10-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 149**

*INIS: 1986-03-04; ETDE: 1986-04-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 150**

*1995-10-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 151**

*2007-11-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 152**

2007-11-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 153**

2007-11-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 154**

2007-11-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 155**

2007-11-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM ADDITIONS**

*Alloys containing not more than 1% La are listed here.*

- \*BT1 lanthanum alloys
- \*BT1 rare earth additions
- NT1 alloy-co36cr22ni22w15fe3
- NT2 haynes 188 alloy

**LANTHANUM ALLOYS**

*Alloys containing more than 1% La.*

- \*BT1 rare earth alloys
- NT1 lanthanum additions
- NT2 alloy-co36cr22ni22w15fe3
- NT3 haynes 188 alloy
- NT1 lanthanum base alloys
- NT1 misch metal

**LANTHANUM BASE ALLOYS**

- \*BT1 lanthanum alloys

**LANTHANUM BORIDES**

- \*BT1 borides
- \*BT1 lanthanum compounds

**LANTHANUM BROMIDES**

- \*BT1 bromides
- \*BT1 lanthanum compounds

**LANTHANUM CARBIDES**

- \*BT1 carbides
- \*BT1 lanthanum compounds

**LANTHANUM CARBONATES**

1996-07-18

- \*BT1 carbonates
- \*BT1 lanthanum compounds
- RT carbonate minerals

**LANTHANUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 lanthanum compounds

**lanthanum chromites**

*INIS: 2000-04-12; ETDE: 1979-07-24*

- USE chromium oxides
- USE lanthanum oxides

**LANTHANUM COMPLEXES**

- \*BT1 rare earth complexes

**LANTHANUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 lanthanum borides
- NT1 lanthanum bromides
- NT1 lanthanum carbides

- NT1 lanthanum carbonates
- NT1 lanthanum chlorides
- NT1 lanthanum fluorides
- NT1 lanthanum hydrides
- NT1 lanthanum hydroxides
- NT1 lanthanum iodides
- NT1 lanthanum nitrates
- NT1 lanthanum nitrides
- NT1 lanthanum oxides
- NT1 lanthanum perchlorates
- NT1 lanthanum phosphates
- NT1 lanthanum phosphides
- NT1 lanthanum selenides
- NT1 lanthanum silicates
- NT1 lanthanum silicides
- NT1 lanthanum sulfates
- NT1 lanthanum sulfides
- NT1 lanthanum tellurides
- NT1 lanthanum tungstates
- NT1 plzt

**LANTHANUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 lanthanum compounds

**LANTHANUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 lanthanum compounds

**LANTHANUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 lanthanum compounds

**LANTHANUM IODIDES**

- \*BT1 iodides
- \*BT1 lanthanum compounds

**LANTHANUM IONS**

- \*BT1 ions

**LANTHANUM ISOTOPES**

1995-10-02

- BT1 isotopes
- NT1 lanthanum 117
- NT1 lanthanum 118
- NT1 lanthanum 119
- NT1 lanthanum 120
- NT1 lanthanum 121
- NT1 lanthanum 122
- NT1 lanthanum 123
- NT1 lanthanum 124
- NT1 lanthanum 125
- NT1 lanthanum 126
- NT1 lanthanum 127
- NT1 lanthanum 128
- NT1 lanthanum 129
- NT1 lanthanum 130
- NT1 lanthanum 131
- NT1 lanthanum 132
- NT1 lanthanum 133
- NT1 lanthanum 134
- NT1 lanthanum 135
- NT1 lanthanum 136
- NT1 lanthanum 137
- NT1 lanthanum 138
- NT1 lanthanum 139
- NT1 lanthanum 140
- NT1 lanthanum 141
- NT1 lanthanum 142
- NT1 lanthanum 143
- NT1 lanthanum 144
- NT1 lanthanum 145
- NT1 lanthanum 146
- NT1 lanthanum 147
- NT1 lanthanum 148
- NT1 lanthanum 149
- NT1 lanthanum 150
- NT1 lanthanum 151
- NT1 lanthanum 152
- NT1 lanthanum 153
- NT1 lanthanum 154

- NT1 lanthanum 155

**LANTHANUM NITRATES**

- \*BT1 lanthanum compounds
- \*BT1 nitrates

**LANTHANUM NITRIDES**

- \*BT1 lanthanum compounds
- \*BT1 nitrides

**LANTHANUM OXIDES**

- UF lanthanum chromites
- \*BT1 lanthanum compounds
- \*BT1 oxides

**LANTHANUM PERCHLORATES**

- \*BT1 lanthanum compounds
- \*BT1 perchlorates

**LANTHANUM PHOSPHATES**

- \*BT1 lanthanum compounds
- \*BT1 phosphates

**LANTHANUM PHOSPHIDES**

*INIS: 1979-09-18; ETDE: 1979-10-23*

- \*BT1 lanthanum compounds
- \*BT1 phosphides

**LANTHANUM SELENIDES**

- \*BT1 lanthanum compounds
- \*BT1 selenides

**LANTHANUM SILICATES**

1996-11-13

- \*BT1 lanthanum compounds
- \*BT1 silicates

**LANTHANUM SILICIDES**

1984-04-04

- \*BT1 lanthanum compounds
- \*BT1 silicides

**LANTHANUM SULFATES**

- \*BT1 lanthanum compounds
- \*BT1 sulfates

**LANTHANUM SULFIDES**

- \*BT1 lanthanum compounds
- \*BT1 sulfides

**LANTHANUM TELLURIDES**

- \*BT1 lanthanum compounds
- \*BT1 tellurides

**LANTHANUM TUNGSTATES**

1983-06-01

- \*BT1 lanthanum compounds
- \*BT1 tungstates

**lanzhou cyclotron**

*INIS: 1983-06-01; ETDE: 1983-07-07*

- USE hirfl cyclotron

**LAOS**

- BT1 asia
- BT1 developing countries

**lap welds**

1976-03-17

(Prior to March 1996 this was a valid ETDE descriptor.)

- USE welded joints

**LAPLACE EQUATION**

- \*BT1 partial differential equations
- RT poisson equation
- RT spherical harmonics

**laplace operator**

- USE laplacian

**LAPLACE TRANSFORMATION**

- \*BT1 integral transformations



**LAPLACIAN**

- UF *laplace operator*  
 BT1 mathematical operators  
 RT diffusion equations  
 RT vectors

**LAPPS**

- \*BT1 minority groups  
 RT arctic regions  
 RT eskimos  
 RT norway

**LARAMIE ENERGY RESEARCH CENTER**

2000-04-12

- \*BT1 us doe  
 \*BT1 us erda

**LARAMIE ENERGY TECHNOLOGY CENTER**

INIS: 2000-04-12; ETDE: 1978-12-11

- \*BT1 us doe

**LARCHES**

INIS: 2000-04-12; ETDE: 1988-02-02

*Larix.*

- \*BT1 conifers

**LARDERELLO GEOTHERMAL FIELD**

1992-06-04

- BT1 geothermal fields  
 RT italy  
 RT vapor-dominated systems

**large coil program**

INIS: 1982-11-30; ETDE: 1979-02-23

*Coordinate descriptor below with descriptor for aspect of program discussed, e.g. SUPERCONDUCTING MAGNETS.*

- USE coordinated research programs  
 USE superconducting magnets

**LARGE INTESTINE**

- UF *appendix (vermiform)*  
 UF *colon*  
 \*BT1 intestines

- NT1 rectum  
 RT excretion  
 RT feces

**larmor electrons**

- USE larmor radius

**larmor nuclear precession**

- USE larmor precession

**LARMOR PRECESSION**

- UF *larmor nuclear precession*  
 BT1 precession

**LARMOR RADIUS**

- UF *gyromagnetic radius*  
 UF *larmor electrons*  
 RT magnetic fields

**LARVAE**

- UF *larval stage*  
 UF *metacercariae*  
 UF *nymphs*  
 UF *tadpoles*  
 RT age groups  
 RT amphibians  
 RT ichthyoplankton  
 RT insects  
 RT metamorphosis

**larval stage**

- USE larvae

**LARYNGECTOMY**

INIS: 1981-08-31; ETDE: 1981-09-22

- \*BT1 surgery

- RT larynx

**LARYNX**

- BT1 respiratory system  
 RT laryngectomy  
 RT neck

**LASER BEAM MACHINING**

INIS: 1982-09-21; ETDE: 1977-11-09

- BT1 machining

**LASER CAVITIES**

1975-08-22

- RT lasers

**LASER DOPPLER ANEMOMETERS**

INIS: 1993-04-21; ETDE: 1992-07-02

- \*BT1 anemometers  
 RT laser radiation  
 RT lasers

**LASER DRILLING**

INIS: 1976-07-06; ETDE: 1976-08-24

- \*BT1 materials drilling  
 RT laser radiation

**LASER FUSION REACTORS**

INIS: 1999-04-19; ETDE: 1976-09-15

- BT1 thermonuclear reactors  
 NT1 cascade reactors  
 NT1 hylife converter  
 RT antares facility  
 RT aurora facility  
 RT direct drive laser implosion  
 RT gdl facility  
 RT gekko facility  
 RT helios facility  
 RT icf devices  
 RT indirect drive laser implosion  
 RT inertial confinement  
 RT inertial fusion drivers  
 RT laser implosions  
 RT nova facility  
 RT omega facility  
 RT shiva facility  
 RT trident facility  
 RT vulcan facility

**laser guidance**

INIS: 2000-04-12; ETDE: 1986-09-05

*A means of guiding a charged particle beam. A laser beam photoionizes a channel through a gas, and the resulting plasma serves to strongly focus and guide the beam.*

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE beam transport  
 USE laser radiation

**LASER IMPLOSIONS**UF *thermonuclear implosions (laser)*

- BT1 implosions  
 NT1 direct drive laser implosion  
 NT1 indirect drive laser implosion  
 RT fusion yield  
 RT inertial confinement  
 RT laser fusion reactors  
 RT laser-produced plasma  
 RT laser-radiation heating  
 RT laser targets  
 RT pulsed fusion reactors

**LASER ISOTOPE SEPARATION**

*A laser photon beam selectively excites or ionizes one of the isotopes which can then be isolated by electromagnetic, chemical, or other methods.*

- UF *avlis*  
 UF *silix process*  
 \*BT1 isotope separation  
 RT lasers

**LASER MATERIALS**

1992-08-11

- BT1 materials  
 RT laser radiation  
 RT lasers

**LASER MIRRORS**

1999-07-15

- BT1 mirrors  
 RT lasers

**LASER POWER TRANSMISSION**

INIS: 1992-08-11; ETDE: 1980-10-07

- UF *power beaming*  
 BT1 power transmission  
 RT power systems

**LASER-PRODUCED PLASMA**

- BT1 plasma  
 RT direct drive laser implosion  
 RT indirect drive laser implosion  
 RT laser implosions  
 RT laser-radiation heating  
 RT plasma production

**laser pumping**

INIS: 2000-03-28; ETDE: 1981-08-21

*Use one of the NT's under pumping.*

- SEE pumping

**LASER RADIATION**UF *laser guidance*

- \*BT1 electromagnetic radiation  
 RT beat wave accelerators  
 RT laser doppler anemometers  
 RT laser drilling  
 RT laser materials  
 RT laser-radiation heating  
 RT laser targets  
 RT laser welding  
 RT lasers  
 RT monochromatic radiation  
 RT optical radar  
 RT superradiance  
 RT visible radiation

**LASER-RADIATION HEATING**

- \*BT1 plasma heating  
 RT direct drive laser implosion  
 RT indirect drive laser implosion  
 RT laser implosions  
 RT laser-produced plasma  
 RT laser radiation

**LASER SPECTROSCOPY**

INIS: 1979-09-18; ETDE: 1978-12-20

- BT1 spectroscopy  
 NT1 raman spectroscopy  
 RT absorption spectroscopy  
 RT fluorescence spectroscopy  
 RT raman spectra

**LASER TARGETS**

INIS: 1981-08-31; ETDE: 1978-09-11

- SF *icf targets*  
 SF *inertial confinement fusion targets*  
 BT1 targets  
 RT direct drive laser implosion  
 RT electron beam targets  
 RT indirect drive laser implosion  
 RT inertial confinement  
 RT ion beam targets  
 RT laser implosions  
 RT laser radiation  
 RT thermonuclear fuels

**LASER WEAPONS**

INIS: 2000-04-12; ETDE: 1979-03-05

- \*BT1 directed-energy weapons  
 RT lasers

**LASER WELDING**

- \*BT1 welding
- RT laser radiation

**LASERS**

1999-02-22

*Light Amplification by Stimulated Emission of Radiation.*

- UF *petawatt lasers*
- SF *stimulated emission devices*
- NT1 chemical lasers
- NT1 free electron lasers
- NT1 gas lasers
  - NT2 carbon dioxide lasers
  - NT2 carbon monoxide lasers
  - NT2 excimer lasers
    - NT3 krypton chloride lasers
    - NT3 krypton fluoride lasers
  - NT2 gas dynamic lasers
  - NT2 helium-neon lasers
  - NT2 helium-xenon lasers
  - NT2 iodine lasers
  - NT2 metal vapor lasers
- NT1 liquid lasers
  - NT2 dye lasers
- NT1 ring lasers
- NT1 solid state lasers
  - NT2 diode-pumped solid state lasers
  - NT2 neodymium lasers
  - NT2 ruby lasers
  - NT2 semiconductor lasers
- NT1 x-ray lasers
  - RT electrical pumping
  - RT electron beam pumping
  - RT frequency selection
  - RT gasers
  - RT laser cavities
  - RT laser doppler anemometers
  - RT laser isotope separation
  - RT laser materials
  - RT laser mirrors
  - RT laser radiation
  - RT laser weapons
  - RT light sources
  - RT masers
  - RT mode control
  - RT mode locking
  - RT mode selection
  - RT multi-photon processes
  - RT nuclear pumping
  - RT optical pumping
  - RT optical radar
  - RT q-switching
  - RT quantum electronics
  - RT radiation sources
  - RT stimulated emission

**LASERTRONS**

INIS: 1986-05-23; ETDE: 1986-11-14

- \*BT1 microwave tubes
- RT power supplies
- RT rf systems

**lasl**

1997-01-28

(Until March 1995 this was a valid descriptor. Name changed in 1980 to Los Alamos National Laboratory, and more recent material should have been indexed to LANL.)

USE lanl

**lasl cold critical assembly**

INIS: 1977-04-07; ETDE: 2002-03-09

USE plasma core assembly

**lasl critical assembly**

INIS: 1979-02-21; ETDE: 2001-01-23

USE parka reactor

**lass growth method**

INIS: 2000-04-12; ETDE: 1982-07-27  
(Prior to February 1995, this was a valid ETDE descriptor.)

USE crystal growth methods

**LATCHKEY OPERATION**

INIS: 2000-04-12; ETDE: 1976-11-01

- \*BT1 nuclear explosions
- \*BT1 underground explosions
- RT contained explosions

**late radiation effects**

USE delayed radiation effects

**LATENCY PERIOD**

- UF *disease free period*
- RT acute irradiation
- RT delayed radiation effects
- RT incubation
- RT quarantine
- RT radiation syndrome

**latent heat of fusion**

USE fusion heat

**latent heat of sublimation**

USE sublimation heat

**latent heat of transition**

USE transition heat

**latent heat of vaporization**

USE vaporization heat

**LATENT HEAT STORAGE**

INIS: 1993-06-04; ETDE: 1977-06-30

*Storage of thermal energy in the latent heat of fusion of various materials.*

- \*BT1 heat storage
- RT fusion heat
- RT phase change materials
- RT seasonal thermal energy storage
- RT thermal energy storage equipment
- RT vaporization heat

**LATENT IMAGES**

- RT dielectric track detectors
- RT nuclear emulsions
- RT photographic emulsions
- RT photographic films

**laterologging**

INIS: 2000-06-27; ETDE: 1979-05-02

USE resistivity logging

**LATEX**

- \*BT1 rubbers
- RT coatings
- RT emulsions
- RT natural rubber
- RT protective coatings

**LATHES**

INIS: 1980-05-14; ETDE: 1978-07-06

- \*BT1 machine tools
- RT machining

**LATIN AMERICA**

INIS: 1986-03-04; ETDE: 1978-08-07

- NT1 central america
- NT2 belize
- NT2 costa rica
- NT2 el salvador
- NT2 guatemala
- NT2 honduras
- NT2 nicaragua
- NT2 panama
- NT1 cuba
- NT1 dominican republic
- NT1 haiti
- NT1 jamaica

- NT1 mexico
- NT1 puerto rico
- NT1 saint lucia
- NT1 saint vincent and the grenadines
- NT1 south america
  - NT2 argentina
  - NT3 mendoza
  - NT2 bolivia
  - NT3 chacaltaya
  - NT2 brazil
  - NT2 chile
  - NT2 colombia
  - NT2 ecuador
  - NT2 french guiana
  - NT2 guyana
  - NT2 paraguay
  - NT2 peru
  - NT2 surinam
  - NT2 uruguay
  - NT2 venezuela
- RT west indies

**latin america nuclear weapons prohibition treaty**

INIS: 1993-11-09; ETDE: 2002-03-09

USE tlatelolco treaty

**latin american energy organization**

2006-10-11

USE olade

**LATINA REACTOR***Borgo Sabotino, Latina, Italy.*UF *foce verde reactor*

- \*BT1 carbon dioxide cooled reactors
- \*BT1 magnox type reactors
- \*BT1 thermal reactors

**latir event**

INIS: 2000-04-12; ETDE: 1976-03-11

*A test made during PROJECT ARBOR.*

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**LATITUDE EFFECT**

1999-07-16

- \*BT1 geographical variations
- RT equator

**lattice defects**

INIS: 2000-04-12; ETDE: 1977-08-09

USE crystal defects

**LATTICE FIELD THEORY**

INIS: 1978-11-24; ETDE: 1978-12-20

- \*BT1 constructive field theory
- RT gauge invariance
- RT instantons
- RT lie groups
- RT wilson loop

**LATTICE PARAMETERS**

RT crystal lattices

**LATTICE VIBRATIONS**

- UF *vibrations (lattice)*
- RT anharmonic crystals
- RT crystal structure
- RT debye-waller factor
- RT harmonics
- RT nuclear specific heat
- RT oscillation modes
- RT rayleigh waves
- RT vibrational states

**lattices (crystal)**

USE crystal lattices

**lattices (reactor)**

USE reactor lattices

**LATVIA**

INIS: 1997-08-20; ETDE: 1993-03-15  
(Until January 1993, this was indexed by USSR.)

SF soviet union

SF union of soviet socialist republics

SF ussr

\*BT1 eastern europe

**LATVIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**laue-bragg scattering**

USE bragg reflection

**LAUE METHOD**

BT1 diffraction methods

RT crystal lattices

RT kossel method

RT structural chemical analysis

RT x-ray diffraction

**LAUMONTITE**

INIS: 2000-04-12; ETDE: 1977-12-22

A white zeolite mineral.

\*BT1 zeolites

**LAUNCHING**

RT missile launching sites

RT missiles

RT rockets

RT space vehicles

**laundries**

INIS: 2000-04-12; ETDE: 1979-02-27

(Prior to March 1997 this was a valid ETDE descriptor.)

USE buildings

USE clothing

USE washing

**lauric acid**

USE dodecanoic acid

**lauryl radicals**

USE dodecyl radicals

**lausanne tokamak**

INIS: 1984-04-04; ETDE: 1984-05-08

USE tca tokamak

**lav virus**

INIS: 1986-05-23; ETDE: 2002-03-09

USE aids virus

**LAVA**

A general term for a molten extrusive; also, for the rock that is solidified from it.

\*BT1 igneous rocks

RT eruption

RT magma

RT magnesium silicates

RT magnesium sulfates

RT silicate minerals

RT volcanism

RT volcanoes

**LAVAGE**

Washing out of hollow organ by copious injections and rejections of water.

UF pulmonary lavage

RT decontamination

RT excretion

RT lungs

RT respiratory system

**LAVENITE**

2000-04-12

\*BT1 silicate minerals

RT calcium silicates

RT sodium silicates

RT zirconium silicates

**LAVES PHASES**

RT crystal lattices

RT intermetallic compounds

**LAWRENCE BERKELEY****LABORATORY**

UF lbl

UF uclbl

UF university of california lawrence

radiation laboratory

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT california

**LAWRENCE LIVERMORE****LABORATORY**

Name changed to Lawrence Livermore

National Laboratory, and more recent

material should be indexed to LAWRENCE

LIVERMORE NATIONAL LABORATORY.

UF uclll

\*BT1 lawrence livermore national laboratory

\*BT1 us aec

\*BT1 us erda

RT california

RT nova facility

RT shiva facility

RT tmx devices

**LAWRENCE LIVERMORE****NATIONAL LABORATORY**

INIS: 1993-11-09; ETDE: 1994-08-18

Formerly known as Lawrence Livermore

Laboratory, and older material is so indexed.

UF llnl

\*BT1 us doe

NT1 lawrence livermore laboratory

RT california

RT nova facility

RT novette facility

RT shiva facility

**LAWRENCIUM**

\*BT1 actinides

\*BT1 transplutonium elements

**LAWRENCIUM 251**

2007-11-13

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-even nuclei

**LAWRENCIUM 252**

2002-01-11

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**LAWRENCIUM 253**

INIS: 1986-06-09; ETDE: 1988-12-05

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**LAWRENCIUM 254**

INIS: 1986-06-09; ETDE: 1988-12-05

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**LAWRENCIUM 255**

INIS: 1977-01-25; ETDE: 1976-04-19

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**LAWRENCIUM 256**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**LAWRENCIUM 257**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**LAWRENCIUM 258**

INIS: 1986-06-09; ETDE: 1976-04-19

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**LAWRENCIUM 259**

INIS: 1977-01-25; ETDE: 1976-11-01

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**LAWRENCIUM 260**

INIS: 1986-03-04; ETDE: 1985-06-26

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**LAWRENCIUM 261**

INIS: 1987-02-25; ETDE: 1987-04-10

\*BT1 actinide nuclei

\*BT1 lawrencium isotopes

\*BT1 odd-even nuclei

**LAWRENCIUM 262**

INIS: 1987-02-25; ETDE: 1987-04-10

\*BT1 actinide nuclei

\*BT1 lawrencium isotopes

\*BT1 odd-odd nuclei

**LAWRENCIUM 263**

INIS: 1987-02-25; ETDE: 1987-05-01

\*BT1 actinide nuclei

\*BT1 lawrencium isotopes

\*BT1 odd-even nuclei

**LAWRENCIUM 264**

2007-11-13

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-odd nuclei

**LAWRENCIUM 265**

2007-11-13

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-even nuclei

**LAWRENCIUM 266**

2007-11-13

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 lawrencium isotopes
- \*BT1 odd-odd nuclei

**lawrencium additions**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

- SEE lawrencium compounds

**lawrencium complexes**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE actinide complexes
- USE transuranium complexes

**LAWRENCIUM COMPOUNDS**

1996-07-18

- SF lawrencium additions
- BT1 actinide compounds
- \*BT1 transplutonium compounds

**LAWRENCIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 lawrencium 251
- NT1 lawrencium 252
- NT1 lawrencium 253
- NT1 lawrencium 254
- NT1 lawrencium 255
- NT1 lawrencium 256
- NT1 lawrencium 257
- NT1 lawrencium 258
- NT1 lawrencium 259
- NT1 lawrencium 260
- NT1 lawrencium 261
- NT1 lawrencium 262
- NT1 lawrencium 263
- NT1 lawrencium 264
- NT1 lawrencium 265
- NT1 lawrencium 266

**LAWS**

1997-07-30

The whole body of laws, regulations, agreements, judicial or administrative decisions or practices which are binding or accepted as a rule of conduct.

(Until December 1990, this descriptor was spelled LAW.)

- UF corporation law
- UF general law
- UF municipal law
- UF private law
- SF invention secrecy act
- SF legal incentives
- SF materials and minerals policy acts
- SF petroleum marketing practices act
- NT1 antitrust laws
- NT1 atomic energy laws
  - NT2 atomic energy act
  - NT2 nuclear waste policy acts
- NT1 case law
- NT1 coastal zone management acts
- NT1 energy conservation and production act
- NT1 fishery laws
- NT1 freedom of information act
- NT1 international laws
- NT1 maritime laws
- NT1 mining laws
  - NT2 surface mining acts
- NT1 national energy acts
  - NT2 us energy tax act
  - NT2 us national energy conservation policy act
  - NT2 us natural gas policy act

- NT2 us power plant and industrial fuel use act
- NT2 us public utility regulatory policies act
- NT1 national energy conservation incentives act
- NT1 patent laws
- NT1 pollution laws
  - NT2 clean air acts
  - NT2 clean water acts
  - NT2 us superfund
- NT1 price-anderson act
- NT1 privacy act
- NT1 public law
- NT1 radiation protection laws
- NT1 regulations
  - NT2 building codes
  - NT2 contamination regulations
    - NT3 maximum acceptable contamination
  - NT2 international regulations
    - NT3 oecd mcmsdrw
- NT2 licensing regulations
- NT2 packaging rules
- NT2 pollution regulations
- NT2 pricing regulations
- NT2 safeguard regulations
- NT2 transport regulations
- NT1 resource recovery acts
- NT1 tax laws
- NT1 toxic substances control acts
- NT1 us economic recovery tax act
- NT1 us emergency preparedness act
- NT1 us energy policy and conservation act
- NT1 us energy security act
- NT1 us national environmental policy act
- NT1 us occupational safety and health act
- NT1 waste disposal acts
  - NT2 nuclear waste policy acts
- NT1 wilderness protection acts
- RT administrative procedures
- RT agreements
- RT amendments
- RT compliance
- RT enforcement
- RT executive orders
- RT hearings
- RT legal aspects
- RT legislation
- RT legislative text
- RT public policy
- RT repeals
- RT solar rights
- RT speed limit
- RT violations

**LAWSON CRITERION**

INIS: 1978-05-19; ETDE: 1978-07-05

The energy output from a thermonuclear reactor can only exceed the plasma energy input if the product of plasma density and confinement time is higher than  $10 \exp 14$  s/cm exp 3.

- RT breakeven
- RT confinement time
- RT plasma density
- RT thermonuclear devices

**LAWSUITS**

INIS: 1976-12-08; ETDE: 1977-06-24

- UF litigation
- RT arbitration
- RT courts
- RT dispute settlements
- RT hearings

**LAX THEOREM**

- RT shock waves

**LAYERS**

- NT1 boundary layers
- NT2 plasma scrape-off layer
- NT1 depletion layer
- NT1 ozone layer
- RT films
- RT lamellae
- RT stratification
- RT stratigraphy
- RT substrates

**lbl**

INIS: 1984-04-04; ETDE: 2002-03-09

- USE lawrence berkeley laboratory

**LBL 88-INCH CYCLOTRON**

INIS: 1988-08-02; ETDE: 1987-12-17

Lawrence Berkeley Laboratory, Berkeley, California, USA.

- \*BT1 uclrl cyclotrons

**LC-FINING**

INIS: 2000-04-12; ETDE: 1980-03-29

Expanded-bed catalytic hydrotreating process (proprietary).

- RT coal liquids
- RT hydrogenation
- RT solvent-refined coal

**lcao calculations**

- USE lcao method

**LCAO METHOD**

- UF lcao calculations
- UF lcao mo calculations
- UF lcao scf treatment
- UF lcao theory
- UF linear combination of atomic orbitals
- BT1 calculation methods
- RT molecular orbital method
- RT molecular structure
- RT self-consistent field

**lcao mo calculations**

- USE lcao method

**lcao scf treatment**

- USE lcao method

**lcao theory**

- USE lcao method

**leffe process**

INIS: 2000-04-12; ETDE: 1981-10-24

- USE coal liquefaction

**LCPMPDPW**

INIS: 1976-03-25; ETDE: 1991-04-17

1972 London Convention on Prevention of Marine Pollution by Dumping of Waste and other Matter.

- UF london convention for prevention of marine pollution
- UF marine pollution prevention, london convention
- UF pollution, prevention of marine, 1972 london convention on
- UF prevention of marine pollution, 1972 london convention on
- \*BT1 international agreements
- RT contamination
- RT marine disposal
- RT oecd mcmsdrw
- RT pollution

**lcr**

INIS: 2000-04-12; ETDE: 1981-05-18

- USE load collector ratio

**lcre reactor**

2000-04-12

- USE experimental reactors

USE lithium cooled reactors

### ld 50

USE lethal radiation dose

### LEACHATES

INIS: 1981-02-27; ETDE: 1980-04-14

The liquid that has percolated through soil or other media; a solution obtained by leaching.

\*BT1 solutions  
 RT environmental transport  
 RT ground water  
 RT in-situ processing  
 RT leaching  
 RT liquid wastes  
 RT solvent extraction

### LEACHING

1996-07-08

UF elution (soluble constituents)

UF lixiviation

BT1 dissolution

BT1 separation processes

NT1 microbial leaching

RT diffusion

RT hydrometallurgy

RT in-situ processing

RT ion exchange chromatography

RT ion exchange materials

RT leachates

RT ore enrichment

RT ore processing

RT solubility

RT solution mining

RT solvent extraction

RT thiobacillus ferrooxidans

RT thiobacillus oxidans

### LEAD

\*BT1 metals

RT shielding materials

### LEAD 178

2007-02-14

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 lead isotopes

\*BT1 microseconds living radioisotopes

### LEAD 179

2007-02-14

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 lead isotopes

\*BT1 milliseconds living radioisotopes

### LEAD 180

1996-10-10

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 lead isotopes

\*BT1 milliseconds living radioisotopes

### LEAD 181

2007-02-14

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 milliseconds living radioisotopes

### LEAD 182

INIS: 1988-02-02; ETDE: 1987-07-22

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 milliseconds living radioisotopes

### LEAD 183

INIS: 1981-02-27; ETDE: 1981-03-13

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

### LEAD 184

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 milliseconds living radioisotopes

### LEAD 185

ETDE: 1975-08-19

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 seconds living radioisotopes

### LEAD 186

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 seconds living radioisotopes

### LEAD 187

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 seconds living radioisotopes

### LEAD 188

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 seconds living radioisotopes

### LEAD 189

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 seconds living radioisotopes

### LEAD 190

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

### LEAD 191

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

### LEAD 192

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

### LEAD 193

1975-10-29

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

### LEAD 194

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

\*BT1 nanoseconds living radioisotopes

### LEAD 195

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

### LEAD 196

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

### LEAD 197

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

### LEAD 198

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 lead isotopes

### LEAD 199

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

### LEAD 200

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 lead isotopes

\*BT1 nanoseconds living radioisotopes

### LEAD 200 TARGET

INIS: 1979-12-20; ETDE: 1980-01-24

BT1 targets

### LEAD 201

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

- \*BT1 isomeric transition isotopes
- \*BT1 lead isotopes
- \*BT1 minutes living radioisotopes

**LEAD 202**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lead isotopes
- \*BT1 years living radioisotopes

**LEAD 202 TARGET**

*INIS: 1978-07-03; ETDE: 1978-08-07*  
BT1 targets

**LEAD 203**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 lead isotopes
- \*BT1 seconds living radioisotopes

**LEAD 204**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lead isotopes
- \*BT1 stable isotopes

**LEAD 204 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**LEAD 205**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 lead isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 years living radioisotopes

**LEAD 205 TARGET**

*INIS: 1978-11-24; ETDE: 1978-04-05*  
BT1 targets

**LEAD 206**

- UF radium g*
- \*BT1 even-even nuclei
  - \*BT1 heavy nuclei
  - \*BT1 lead isotopes
  - \*BT1 stable isotopes

**LEAD 206 REACTIONS**

*INIS: 1986-08-19; ETDE: 1986-09-05*  
\*BT1 heavy ion reactions

**LEAD 206 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**LEAD 207**

- UF actinium d*
- \*BT1 even-odd nuclei
  - \*BT1 heavy nuclei
  - \*BT1 isomeric transition isotopes
  - \*BT1 lead isotopes
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 stable isotopes

**LEAD 207 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**LEAD 208**

- UF thorium d*
- \*BT1 even-even nuclei

- \*BT1 heavy nuclei
- \*BT1 lead isotopes
- \*BT1 stable isotopes

**LEAD 208 BEAMS**

*INIS: 1978-05-19; ETDE: 1978-07-05*  
\*BT1 ion beams

**LEAD 208 REACTIONS**

*INIS: 1978-04-21; ETDE: 1978-07-06*  
\*BT1 heavy ion reactions

**LEAD 208 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**LEAD 209**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 lead isotopes

**LEAD 209 TARGET**

*INIS: 1976-07-30; ETDE: 1976-11-01*  
BT1 targets

**LEAD 210**

- UF radium d*
- \*BT1 alpha decay radioisotopes
  - \*BT1 beta-minus decay radioisotopes
  - \*BT1 even-even nuclei
  - \*BT1 heavy nuclei
  - \*BT1 lead isotopes
  - \*BT1 years living radioisotopes

**LEAD 210 TARGET**

*INIS: 1976-07-06; ETDE: 1976-08-24*  
BT1 targets

**LEAD 211**

- UF actinium b*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 even-odd nuclei
  - \*BT1 heavy nuclei
  - \*BT1 lead isotopes
  - \*BT1 minutes living radioisotopes

**LEAD 212**

- UF thorium b*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 even-even nuclei
  - \*BT1 heavy nuclei
  - \*BT1 hours living radioisotopes
  - \*BT1 lead isotopes

**LEAD 213**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 lead isotopes
- \*BT1 minutes living radioisotopes

**LEAD 214**

- UF radium b*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 even-even nuclei
  - \*BT1 heavy nuclei
  - \*BT1 lead isotopes
  - \*BT1 minutes living radioisotopes

**LEAD 215**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 lead isotopes

**LEAD 216**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 lead isotopes

**LEAD-ACID BATTERIES**

*1992-05-04*  
*UF storage batteries (lead-acid)*

- \*BT1 electric batteries

**LEAD ADDITIONS**

*Alloys containing not more than 1% Pb are listed here.*

- \*BT1 lead alloys

**LEAD ALLOYS**

*Alloys containing more than 1% Pb.*

- BT1 alloys
- NT1 alloy-bi50pb25cd12sn12
- NT2 wood metal
- NT1 cerrobend alloys
- NT1 lead additions
- NT1 lead base alloys
- NT2 terne-metal
- NT1 lichtenberg alloy
- NT1 newton-metal
- NT1 ounce metal
- NT1 rose-metal

**LEAD BASE ALLOYS**

- \*BT1 lead alloys
- NT1 terne-metal

**LEAD BROMIDES**

- \*BT1 bromides
- \*BT1 lead halides

**LEAD CARBIDES**

*2000-04-12*  
\*BT1 carbides  
BT1 lead compounds

**LEAD CARBONATES**

- \*BT1 carbonates
- BT1 lead compounds

**LEAD CHLORIDES**

- \*BT1 chlorides
- \*BT1 lead halides

**LEAD COMPLEXES**

- BT1 complexes

**LEAD COMPOUNDS**

*1997-06-17*

- NT1 lead carbides
- NT1 lead carbonates
- NT1 lead halides
- NT2 lead bromides
- NT2 lead chlorides
- NT2 lead fluorides
- NT2 lead iodides
- NT1 lead hydrides
- NT1 lead hydroxides
- NT1 lead nitrates
- NT1 lead nitrides
- NT1 lead oxides
- NT1 lead perchlorates
- NT1 lead phosphates
- NT1 lead selenides
- NT1 lead silicates
- NT1 lead sulfates
- NT1 lead sulfides
- NT1 lead tellurides
- NT1 lead tungstates
- NT1 plumbates
- NT1 plzt
- NT1 pzt
- NT1 tetraethyl lead

**LEAD FLUORIDES**

- \*BT1 fluorides
- \*BT1 lead halides

**lead-free gasoline**

*INIS: 1992-07-21; ETDE: 1976-11-02*  
USE unleaded gasoline

**LEAD HALIDES**

*1984-04-04*  
\*BT1 halides

BT1 lead compounds  
 NT1 lead bromides  
 NT1 lead chlorides  
 NT1 lead fluorides  
 NT1 lead iodides

**LEAD HYDRIDES**

*INIS: 2000-04-12; ETDE: 1984-10-10*

\*BT1 hydrides  
 BT1 lead compounds

**LEAD HYDROXIDES**

\*BT1 hydroxides  
 BT1 lead compounds

**LEAD IODIDES**

\*BT1 iodides  
 \*BT1 lead halides

**LEAD IONS**

\*BT1 ions

**LEAD ISOTOPES**

*1999-07-16*

BT1 isotopes  
 NT1 lead 178  
 NT1 lead 179  
 NT1 lead 180  
 NT1 lead 181  
 NT1 lead 182  
 NT1 lead 183  
 NT1 lead 184  
 NT1 lead 185  
 NT1 lead 186  
 NT1 lead 187  
 NT1 lead 188  
 NT1 lead 189  
 NT1 lead 190  
 NT1 lead 191  
 NT1 lead 192  
 NT1 lead 193  
 NT1 lead 194  
 NT1 lead 195  
 NT1 lead 196  
 NT1 lead 197  
 NT1 lead 198  
 NT1 lead 199  
 NT1 lead 200  
 NT1 lead 201  
 NT1 lead 202  
 NT1 lead 203  
 NT1 lead 204  
 NT1 lead 205  
 NT1 lead 206  
 NT1 lead 207  
 NT1 lead 208  
 NT1 lead 209  
 NT1 lead 210  
 NT1 lead 211  
 NT1 lead 212  
 NT1 lead 213  
 NT1 lead 214  
 NT1 lead 215  
 NT1 lead 216

**lead method**

USE isotope dating

**lead minerals**

*2000-04-12*

USE minerals

**LEAD NITRATES**

BT1 lead compounds  
 \*BT1 nitrates

**LEAD NITRIDES**

*1996-06-28*

(From June 1996 to November 2007 LEAD COMPOUNDS + NITRIDES was used for this concept.)

BT1 lead compounds

\*BT1 nitrides

**LEAD ORES**

BT1 ores

**LEAD OXIDES**

*1996-07-23*

BT1 lead compounds  
 \*BT1 oxides  
 RT fourmarierite  
 RT hallimondite  
 RT moctezumite  
 RT oxide minerals  
 RT plumbates

**LEAD PERCHLORATES**

*INIS: 2000-04-12; ETDE: 1977-05-07*

BT1 lead compounds  
 \*BT1 perchlorates

**LEAD PHOSPHATES**

*1996-07-18*

BT1 lead compounds  
 \*BT1 phosphates  
 RT dewindtite  
 RT phosphate minerals

**LEAD SELENIDES**

*1977-01-25*

BT1 lead compounds  
 \*BT1 selenides

**LEAD SILICATES**

BT1 lead compounds  
 \*BT1 silicates  
 RT alamosite

**LEAD SULFATES**

BT1 lead compounds  
 \*BT1 sulfates

**LEAD SULFIDES**

BT1 lead compounds  
 \*BT1 sulfides  
 RT galena  
 RT sulfide minerals

**LEAD TELLURIDES**

BT1 lead compounds  
 \*BT1 tellurides

**LEAD TUNGSTATES**

*INIS: 1979-04-27; ETDE: 1979-05-25*

BT1 lead compounds  
 \*BT1 tungstates

**lead zirconate titanate**

*INIS: 2000-04-12; ETDE: 1983-01-21*

USE pzt

**LEADING ABSTRACT**

*1991-08-02*

BT1 abstracts

**LEADING PARTICLES**

*INIS: 1981-11-26; ETDE: 1976-09-28*

*Charged interaction products with large longitudinal momentum.*

BT1 elementary particles  
 RT particle models  
 RT particle production

**LEAK DETECTORS**

RT leak testing  
 RT leaks  
 RT reactor components

**LEAK TESTING**

BT1 testing  
 RT leak detectors  
 RT leaks  
 RT sealed sources

**leakage**

USE leaks

**leakage (neutron)**

USE neutron leakage

**LEAKAGE CURRENT**

UF current (leakage)  
 \*BT1 electric currents

**LEAKS**

UF leakage  
 RT airtightness  
 RT containment  
 RT failures  
 RT fission product release  
 RT gloveboxes  
 RT leak detectors  
 RT leak testing  
 RT porosity  
 RT sealed sources

**lear**

*INIS: 2000-04-12; ETDE: 1984-08-20*

*Low Energy Antiproton storage Ring at CERN.*

(Prior to November 1990 this was a valid ETDE descriptor.)

USE cern lear

**learn tandem accelerator**

*1996-07-18*

(Until July 1996 this was a valid descriptor.)

USE tandem electrostatic accelerators  
 USE van de graaff accelerators

**LEARNING**

RT attitudes  
 RT behavior  
 RT conditioned reflexes  
 RT education  
 RT training

**LEASE CONDENSATES**

*INIS: 2000-04-12; ETDE: 1979-02-23*

*Natural gas liquids recovered from gas well gas, associated and non-associated, in lease separators or field facilities.*

\*BT1 natural gas liquids  
 RT liquefied petroleum gases

**LEASES**

*1992-03-30*

BT1 contracts  
 RT land leasing

**LEASING**

*1995-04-06*

NT1 land leasing  
 RT administrative procedures  
 RT agreements  
 RT contracts  
 RT legal aspects  
 RT resource exploitation  
 RT third-party use

**LEAST SQUARE FIT**

\*BT1 maximum-likelihood fit  
 RT prony method

**LEATHER**

RT skin

**LEAVES**

UF foliage  
 NT1 tea leaves  
 RT c4 species  
 RT calvin cycle species  
 RT canopies  
 RT chlorophyll  
 RT chlorosis  
 RT foliar uptake

RT forest litter  
 RT photosynthesis  
 RT plants  
 RT transpiration

**LEBANESE ORGANIZATIONS**

2004-03-31

BT1 national organizations

**LEBANON**

BT1 arab countries  
 BT1 asia  
 BT1 developing countries  
 BT1 middle east

**lebedev synchrotron**

USE fian synchrotron

**LECITHINS**

UF phosphatidylcholine  
 \*BT1 phospholipids  
 RT choline  
 RT glycerol

**LECTINS**

INIS: 1999-07-20; ETDE: 1981-10-24

Substances not known to be antibodies but that combine specifically with antigens and produce phenomena resembling immunological reactions.

NT1 concanavalin a  
 RT antibodies  
 RT antigen-antibody reactions  
 RT antigens

**LECTURES**

Should be used to index all pieces of literature which are a lecture or a collection of lectures.

BT1 document types

**led (light emitting diodes)**

INIS: 1978-02-23; ETDE: 1978-04-27

USE light emitting diodes

**LEDGEMONT PROCESS**

2000-04-12

An oxygen leaching process for converting pyrites in coal slurries to soluble sulfates.

\*BT1 desulfurization  
 RT pyrite

**LEE MODEL**

\*BT1 particle models

**LEE-YANG THEORY**

UF salam hypothesis  
 UF yang-lee distribution  
 RT beta decay  
 RT p invariance

**leed**

USE electron diffraction

**LEGAL ASPECTS**

1999-07-20

(From August 1979 till March 1997 LEGAL INCENTIVES was a valid ETDE descriptor.)

UF coercion  
 UF insurance law  
 SF document destruction  
 SF legal incentives  
 NT1 antitrust review  
 RT administrative procedures  
 RT amendments  
 RT atomic energy control  
 RT compliance  
 RT conflicts of interest  
 RT consumer protection  
 RT eminent domain  
 RT enforcement  
 RT executive orders  
 RT financial incentives  
 RT iaea agreements

RT inspection  
 RT insurance  
 RT intervenors  
 RT joint ventures  
 RT land leasing  
 RT land ownership  
 RT laws  
 RT leasing  
 RT legislation  
 RT liabilities  
 RT licenses  
 RT licensing  
 RT mineral rights  
 RT ownership  
 RT patents  
 RT political aspects  
 RT price-anderson act  
 RT property rights  
 RT public policy  
 RT radiation protection  
 RT recommendations  
 RT regulations  
 RT regulatory guides  
 RT repeals  
 RT rights-of-way  
 RT safeguards  
 RT safety standards  
 RT sellback  
 RT solar rights  
 RT time delay  
 RT warranties  
 RT water rights  
 RT workmens compensation

**legal incentives**

INIS: 2000-04-12; ETDE: 1979-08-07

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE government policies  
 SEE laws  
 SEE legal aspects  
 SEE regulations

**LEGENRE POLYNOMIALS**

\*BT1 polynomials  
 RT spherical harmonics method

**LEGIONELLA ANISA**

INIS: 2000-04-12; ETDE: 1985-05-31

\*BT1 bacteria  
 RT bacterial diseases  
 RT infectious diseases

**LEGIONELLA PNEUMOPHILA**

INIS: 1993-07-15; ETDE: 1983-06-20

The bacterium responsible for legionnaires' disease.

\*BT1 bacteria  
 RT bacterial diseases  
 RT cooling systems  
 RT infectious diseases

**LEGISLATION**

1997-06-19

UF legislative programs  
 RT amendments  
 RT freedom of information act  
 RT hearings  
 RT implementation  
 RT laws  
 RT legal aspects  
 RT legislative text  
 RT local government  
 RT national government  
 RT public policy  
 RT regulations  
 RT state government  
 RT toxic substances control acts  
 RT us economic recovery tax act

**legislative programs**

2000-04-12

USE legislation

**LEGISLATIVE TEXT**

INIS: 1987-09-22; ETDE: 1987-10-23

Use only in conjunction with literary indicator

Q for indexing the text of a piece of legislation.

RT laws  
 RT legislation  
 RT regulations

**LEGS**

\*BT1 limbs  
 NT1 feet  
 RT femur  
 RT sciatic nerve  
 RT tibia

**LEGUMINOSAE**

1997-06-17

UF honeylocust trees  
 \*BT1 magnoliopsida  
 NT1 alfalfa  
 NT1 clover  
 NT1 glycine hispida  
 NT1 locust trees  
 NT1 mesquite  
 NT1 phaseolus  
 NT1 pismus  
 NT1 vicia  
 NT1 vigna  
 RT mimosine  
 RT peanuts  
 RT rhizobium

**LEHMANN-KAELEN REPRESENTATION**

RT quantum field theory

**lehmann-symanzik-zimmermann method**

USE lsz theory

**LEIBSTADT REACTOR**

\*BT1 bwr type reactors

**leipzig zfi**

INIS: 1986-05-23; ETDE: 2002-03-09

USE zfi leipzig

**LEISURE TIME ACTIVITIES**

INIS: 2000-04-12; ETDE: 1978-12-28

(From November 1978 till March 1997 LIFE STYLES was a valid ETDE descriptor.)

SF life styles  
 RT behavior  
 RT gardening  
 RT sociology

**LEMONIZ-1 REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-03

Lemoniz, Vizcaya, Spain.

\*BT1 pwr type reactors

**LEMONIZ-2 REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-03

Lemoniz, Vizcaya, Spain.

\*BT1 pwr type reactors

**LEMONS**

\*BT1 fruits  
 RT citrus

**lena triga-mk-2 pulsed reactor**

1984-06-21

USE triga-2-pavia reactor

**LENDING INSTITUTIONS**

INIS: 1993-02-18; ETDE: 1981-06-17

RT economy



*RT* financing

**LENGTH**

1999-07-20

BT1 dimensions  
 NT1 bond lengths  
 NT1 coherence length  
 NT1 debye length  
 NT1 diffusion length  
 NT1 elementary length  
 NT1 extrapolation length  
 NT1 migration length  
 NT1 radiation length  
 NT1 scattering lengths  
 NT1 slowing-down length

**lenin (nuclear ship)**

USE ns lenin

**LENIN REACTOR**

*UF* icebreaker lenin reactor  
*UF* nuclear ship lenin reactor  
 \*BT1 pwr type reactors  
 \*BT1 ship propulsion reactors  
*RT* ns lenin

**LENINGRAD-1 REACTOR**

*Sosnovyy bor, Leningrad, Russian Federation.*

*UF* rbmk-1000 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**LENINGRAD-2 REACTOR**

*Sosnovyy bor, Leningrad, Russian Federation.*

\*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**LENINGRAD-3 REACTOR**

*INIS: 1984-08-23; ETDE: 1984-09-20*

\*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**LENINGRAD-4 REACTOR**

*INIS: 1984-08-23; ETDE: 1984-09-20*

\*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**leningrad institute of nuclear physics**

*INIS: 1997-08-08; ETDE: 1977-04-12*

(Until July 1997 this was a valid descriptor.)

USE st petersburg institute of nuclear physics

**LENINGRAD****SYNCHROCYCLOTRON**

2000-04-12

\*BT1 synchrocyclotrons

**leningrad wwr-m reactor**

*INIS: 1984-06-21; ETDE: 2002-03-09*

USE wwr-m-leningrad reactor

**LENNARD-JONES POTENTIAL**

BT1 potentials  
*RT* interatomic forces

**lens (crystalline)**

USE crystalline lens

**LENSES**

NT1 electromagnetic lenses  
 NT1 electrostatic lenses  
 NT1 fresnel lens  
 NT1 gravitational lenses  
*RT* optical systems

**leonid brezhnev (nuclear ship)**

*INIS: 1984-08-27; ETDE: 1994-08-10*

USE ns leonid brezhnev

**LEONID BREZHNEV REACTOR**

*INIS: 1984-08-27; ETDE: 1994-08-10*

(Prior to November 1982 known as

ARKTIKA REACTOR.)

*UF* arktika reactor  
*UF* icebreaker arktika reactor  
*UF* icebreaker leonid brezhnev reactor  
*UF* nuclear ship arktika reactor  
*UF* nuclear ship leonid brezhnev reactor  
 \*BT1 pwr type reactors  
 \*BT1 ship propulsion reactors  
*RT* ns leonid brezhnev

**LEP STORAGE RINGS**

*INIS: 1995-10-05; ETDE: 1977-11-10*

*European Large Electron-Positron storage rings.*

*UF* cern lep  
 BT1 storage rings  
 \*BT1 synchrotrons

**LEPIDOPTERA**

*INIS: 1985-03-15; ETDE: 1981-06-16*

\*BT1 insects  
 NT1 moths  
 NT2 bollworm  
 NT2 codling moth  
 NT2 lymantria dispar  
 NT2 rice stem borers  
 NT2 silkworm

**LEPROSY**

\*BT1 bacterial diseases  
*RT* mycobacterium

**LEPTIN**

2003-02-10

\*BT1 peptide hormones  
 \*BT1 polypeptides  
*RT* adipose tissue  
*RT* fat cells  
*RT* fats

**LEPTON-BARYON INTERACTIONS**

1996-10-22

(Prior to March 1997 LEPTON-HYPERON INTERACTIONS was a valid ETDE descriptor.)

*UF* lepton-hyperon interactions  
 \*BT1 lepton-hadron interactions  
 NT1 lepton-nucleon interactions  
 NT2 deep inelastic scattering  
 NT2 electron-nucleon interactions  
 NT3 electron-neutron interactions  
 NT3 electron-proton interactions  
 NT2 lepton-neutron interactions  
 NT3 antilepton-neutron interactions  
 NT4 antineutrino-neutron interactions  
 NT2 lepton-proton interactions  
 NT3 antilepton-proton interactions  
 NT4 antineutrino-proton interactions  
 NT2 muon-nucleon interactions  
 NT3 muon-neutron interactions  
 NT3 muon-proton interactions  
 NT2 neutrino-nucleon interactions  
 NT3 antineutrino-nucleon interactions  
 NT4 antineutrino-neutron interactions  
 NT4 antineutrino-proton interactions  
 NT3 neutrino-neutron interactions  
 NT4 antineutrino-neutron interactions  
 NT3 neutrino-proton interactions  
 NT4 antineutrino-proton interactions

**LEPTON BEAMS**

\*BT1 particle beams  
 NT1 electron beams  
 NT1 muon beams  
 NT1 neutrino beams  
 NT2 antineutrino beams  
 NT1 positron beams

**lepton-deuteron interactions**

USE deuterium target  
 USE lepton reactions

**LEPTON-HADRON INTERACTIONS**

\*BT1 particle interactions  
 NT1 lepton-baryon interactions  
 NT2 lepton-nucleon interactions  
 NT3 deep inelastic scattering  
 NT3 electron-nucleon interactions  
 NT4 electron-neutron interactions  
 NT4 electron-proton interactions  
 NT3 lepton-neutron interactions  
 NT4 antilepton-neutron interactions  
 NT5 antineutrino-neutron interactions  
 NT3 lepton-proton interactions  
 NT4 antilepton-proton interactions  
 NT5 antineutrino-proton interactions  
 NT3 muon-nucleon interactions  
 NT4 muon-neutron interactions  
 NT4 muon-proton interactions  
 NT3 neutrino-nucleon interactions  
 NT4 antineutrino-nucleon interactions  
 NT5 antineutrino-neutron interactions  
 NT5 antineutrino-proton interactions  
 NT4 neutrino-neutron interactions  
 NT5 antineutrino-neutron interactions  
 NT4 neutrino-proton interactions  
 NT5 antineutrino-proton interactions  
 NT1 lepton-meson interactions  
 NT2 electron-meson interactions  
 NT3 electron-pion interactions  
 NT2 muon-meson interactions  
 NT2 neutrino-meson interactions  
*RT* electromagnetic interactions  
*RT* weak interactions

**lepton-hyperon interactions**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE lepton-baryon interactions

**LEPTON-LEPTON INTERACTIONS**

\*BT1 particle interactions  
 NT1 electron-electron interactions  
 NT1 electron-muon interactions  
 NT1 electron-positron interactions  
 NT1 muon-muon interactions  
 NT1 neutrino-electron interactions  
 NT2 antineutrino-electron interactions  
 NT1 neutrino-muon interactions  
 NT1 neutrino-neutrino interactions  
 NT1 positron-positron interactions  
*RT* electromagnetic interactions  
*RT* weak interactions

**LEPTON-MESON INTERACTIONS**

\*BT1 lepton-hadron interactions  
 NT1 electron-meson interactions  
 NT2 electron-pion interactions  
 NT1 muon-meson interactions  
 NT1 neutrino-meson interactions

**LEPTON-NEUTRON INTERACTIONS***INIS: 1977-01-25; ETDE: 1977-04-13*

- \*BT1 lepton-nucleon interactions
- NT1 antilepton-neutron interactions
- NT2 antineutrino-neutron interactions

**LEPTON-NUCLEON INTERACTIONS**

- \*BT1 lepton-baryon interactions
- NT1 deep inelastic scattering
- NT1 electron-nucleon interactions
  - NT2 electron-neutron interactions
  - NT2 electron-proton interactions
- NT1 lepton-neutron interactions
  - NT2 antilepton-neutron interactions
  - NT3 antineutrino-neutron interactions
- NT1 lepton-proton interactions
  - NT2 antilepton-proton interactions
  - NT3 antineutrino-proton interactions
- NT1 muon-nucleon interactions
  - NT2 muon-neutron interactions
  - NT2 muon-proton interactions
- NT1 neutrino-nucleon interactions
  - NT2 antineutrino-nucleon interactions
  - NT3 antineutrino-neutron interactions
  - NT3 antineutrino-proton interactions
- NT2 neutrino-neutron interactions
- NT3 antineutrino-neutron interactions
- NT2 neutrino-proton interactions
- NT3 antineutrino-proton interactions

**LEPTON NUMBER**

- NT1 muon number
- RT gauge invariance
- RT leptons

**LEPTON-PROTON INTERACTIONS***ETDE: 1975-09-11*

- \*BT1 lepton-nucleon interactions
- NT1 antilepton-proton interactions
- NT2 antineutrino-proton interactions

**LEPTON REACTIONS**

- UF *lepton-deuteron interactions*
- BT1 nuclear reactions
- NT1 electron reactions
  - NT2 electrofission
- NT1 muon reactions
- NT1 neutrino reactions
- NT1 positron reactions
- RT emc effect

**LEPTONIC DECAY***Weak decay in which all decay products are leptons with at least one being a neutrino.*

- \*BT1 weak interactions
- \*BT1 weak particle decay
- RT neutrinos
- RT semileptonic decay

**LEPTONS***1996-07-18**(Prior to March 1997 FEINBERG-PAIS THEORY was a valid ETDE descriptor.)*

- SF *feinberg-pais theory*
- SF *peratization procedure*
- BT1 elementary particles
- BT1 fermions
- NT1 antileptons
  - NT2 antineutrinos
    - NT3 electron antineutrinos
    - NT3 muon antineutrinos
  - NT2 muons plus
  - NT2 positrons
    - NT3 cosmic positrons
- NT1 electrons
  - NT2 cosmic electrons
  - NT2 exoelectrons
  - NT2 prompt electrons

- NT2 runaway electrons
- NT2 solar electrons
- NT2 solvated electrons
- NT2 tail electrons
- NT2 trapped electrons
- NT1 heavy leptons
  - NT2 heavy neutral muons
  - NT2 tau neutrinos
  - NT2 tau particles
- NT1 muons
  - NT2 cosmic muons
  - NT2 muons minus
  - NT2 muons plus
- NT1 neutrinos
  - NT2 antineutrinos
    - NT3 electron antineutrinos
    - NT3 muon antineutrinos
  - NT2 cosmic neutrinos
  - NT2 electron neutrinos
    - NT3 electron antineutrinos
  - NT2 muon neutrinos
    - NT3 muon antineutrinos
  - NT2 solar neutrinos
  - NT2 tau neutrinos
- RT lepton number
- RT preons
- RT semileptonic decay

**lermontovite***1996-06-28**(Until June 1996 this was a valid descriptor.)*

- USE phosphate minerals
- USE uranium minerals

**LESOTHO**

- BT1 africa
- BT1 developing countries

**LESSER ANTILLES***INIS: 1992-06-04; ETDE: 1980-02-11*

- \*BT1 west indies
- NT1 antigua and barbuda
- NT1 barbados
- NT1 grenada
- NT1 martinique
- NT1 netherlands antilles
- NT1 saint kitts and nevis
- NT1 trinidad and tobago
- NT1 virgin islands

**LET**

- UF *linear energy transfer*
- BT1 energy transfer
- RT biological repair
- RT bragg curve
- RT dose equivalents
- RT energy losses
- RT ionization
- RT microdosimetry
- RT oxygen enhancement ratio
- RT quality factor
- RT radiation quality
- RT rbe

**LETHAL DOSES***INIS: 1986-03-04; ETDE: 1976-04-19*

- UF *doses (lethal)*
- BT1 doses
- NT1 lethal radiation dose
- RT hazardous materials
- RT toxicity

**LETHAL GENES**

- BT1 genes
- RT lethal mutations

**LETHAL IRRADIATION**

- BT1 irradiation
- RT death
- RT dose-response relationships
- RT lethal radiation dose

- RT mortality
- RT radiation doses
- RT sublethal irradiation
- RT supralethal irradiation
- RT survival curves
- RT survival time

**LETHAL MUTATIONS**

- UF *lethals*
- BT1 mutations
- RT lethal genes

**LETHAL RADIATION DOSE***Referring to a percentage kill, frequently with a time indication.*

- UF *ld 50*
- \*BT1 lethal doses
- \*BT1 radiation doses
- RT lethal irradiation
- RT sublethal irradiation
- RT supralethal irradiation

**lethals**

- USE lethal mutations

**letters-of-credit***INIS: 2000-04-12; ETDE: 1983-05-21*  
SEE financing**LETTUCE**

- \*BT1 magnoliopsida
- \*BT1 vegetables

**LEUCINE**

- UF *aminoisocaproic acid-alpha*
- \*BT1 amino acids

**leucocytes**

- USE leukocytes

**leucovorin***INIS: 2000-04-12; ETDE: 1978-12-11*  
USE citrovorum factor**LEUKEMIA**

- \*BT1 immune system diseases
- \*BT1 neoplasms
- NT1 myeloid leukemia
  - RT bone marrow
  - RT leukemia viruses
  - RT leukemogenesis
  - RT leukocytes
  - RT lymphatic system
  - RT oncogenic viruses
  - RT splenomegaly
  - RT vinblastine

**LEUKEMIA VIRUSES***INIS: 1977-09-06; ETDE: 1977-10-20*

- \*BT1 oncogenic viruses
- RT experimental neoplasms
- RT leukemia

**LEUKEMOGENESIS**

- \*BT1 carcinogenesis
- RT leukemia

**LEUKOCYTES**

- UF *granulocytes*
- UF *leucocytes*
- SF *leukocytin*
- \*BT1 blood cells
- NT1 basophils
- NT1 eosinophils
- NT1 lymphocytes
- NT1 monocytes
- NT1 natural killer cells
- NT1 neutrophils
  - RT aids
  - RT leukemia
  - RT leukopenia
  - RT leukopoiesis

RT phagocytes

### leukocytin

2000-04-12

Substance in blood that stimulates the formation of leukocytes.

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE blood formation

SEE leukocytes

### LEUKOPENIA

\*BT1 hemic diseases

\*BT1 immune system diseases

BT1 symptoms

NT1 lymphopenia

RT leukocytes

RT pathological changes

### LEUKOPOIESIS

UF lymphopoiesis

BT1 blood formation

RT immune system diseases

RT leukocytes

### level density

USE energy-level density

### LEVEL INDICATORS

BT1 measuring instruments

RT radiometric gages

### LEVEL MIXING RESONANCE

INIS: 1986-08-19; ETDE: 1989-09-18

A resonant method which measures nuclear electric quadrupole and magnetic dipole interactions.

BT1 resonance

RT nuclear magnetic resonance

RT nuclear quadrupole resonance

### level schemes

USE energy levels

### LEVEL WIDTHS

RT energy-level density

RT energy levels

RT lifetime

RT line widths

RT porter-thomas distribution

### LEVELS

1996-08-05

Limited to vertical distance; see also ENERGY LEVELS.

UF elevation

NT1 ground level

NT1 sea level

NT1 underground

NT1 underwater

RT altitude

RT height

### LEVINGER-BETHE THEORY

UF levinger method

RT nucleons

RT photoproduction

### levinger method

USE levinger-bethe theory

### LEVINSON THEOREM

RT quantum mechanics

RT scattering

### LEVITATED TRAINS

INIS: 2000-04-12; ETDE: 1975-11-11

UF magnetic levitated trains

\*BT1 trains

RT levitation

RT railways

### LEVITATION

RT levitated trains

RT magnetic fields

### LEVITRON DEVICES

\*BT1 internal ring devices

### LEVULINIC ACID

UF acetylpropionic acid-beta

UF ketovaleric acid-gamma

\*BT1 keto acids

### levulose

USE fructose

### levy-klein potential

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE potentials

### levy potential

1996-06-28

(Prior to July 1996 LEVY-KLEIN

POTENTIAL was a valid ETDE descriptor.)

USE potentials

### LEWIS ACIDS

1994-06-27

Substances that can accept an electron pair.

\*BT1 inorganic acids

RT broensted acids

RT lewis bases

### LEWIS BASES

1994-06-27

Substances that can donate an electron pair.

BT1 bases

RT lewis acids

### lewis effect

USE lewis peak

### LEWIS NUMBER

2007-01-08

BT1 dimensionless numbers

RT heat transfer

RT mass transfer

### LEWIS PEAK

UF lewis effect

RT nuclear reactions

### LEWIS RIVER

INIS: 2000-04-12; ETDE: 1981-05-18

\*BT1 rivers

RT hydroelectric power plants

RT washington

### leyden event

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

### LFR REACTOR

Stichting Energieonderzoek Centrum

Nederland, Petten, Netherlands.

UF lage flux reaktor petten

UF low flux reactor petten

UF petten low flux reactor

\*BT1 argonaut type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

### lh (luteinizing hormone)

ETDE: 2005-01-28

(Prior to January 2005 LH was a valid descriptor.)

USE luteinizing hormone

### LH-RH

LH-Releasing Hormone.

\*BT1 liberins

RT luteinizing hormone

### LHD DEVICE

INIS: 1998-09-23; ETDE: 1998-07-16

Large Helical Device, National Institute for Fusion Sciences, Nagoya, Japan.

\*BT1 closed plasma devices

RT heliotron

RT torsatron stellarators

### lhr heating

INIS: 1984-04-04; ETDE: 2002-03-28

Lower hybrid resonance heating.

USE lower hybrid heating

### LI-DRIFTED DETECTORS

\*BT1 semiconductor detectors

NT1 li-drifted ge detectors

NT1 li-drifted junction detectors

NT1 li-drifted si detectors

### LI-DRIFTED GE DETECTORS

UF ge(li) detectors

\*BT1 ge semiconductor detectors

\*BT1 li-drifted detectors

### LI-DRIFTED JUNCTION DETECTORS

\*BT1 junction detectors

\*BT1 li-drifted detectors

### LI-DRIFTED SI DETECTORS

UF si(li) detectors

\*BT1 li-drifted detectors

\*BT1 si semiconductor detectors

### LIABILITIES

UF absolute liability

UF accountability (legal)

UF contractual liability

UF cumulative liability

UF exclusive liability

UF fault liability

UF joint liability

UF state liability

SF accountability

NT1 civil liability

NT1 nuclear liability

RT accidents

RT bcolons

RT exceptional natural disaster

RT financial security

RT hazards

RT indemnification agreements

RT insurance

RT joint ventures

RT legal aspects

RT liability exclusions

RT liability limitations

RT pcotpl

RT time limitations

RT victims compensation

### liability conv maritime carriage nuclear materials

2000-04-12

USE bcoclmcnm

### liability conv nuclear damage, vienna

2000-04-12

USE vcoclnd

### liability conv on third party, brussels

2000-04-12

USE bestpc

### liability conv on third party, paris

2000-04-12

USE pcotpl

**liability convention on operation of nuclear ships**

ETDE: 2002-03-27

USE bcolons

**LIABILITY EXCLUSIONS**

INIS: 1976-12-08; ETDE: 1994-08-10

*When under an international convention or national law the nuclear operator is not liable for the damage caused.*

UF exclusions (liability)

RT liabilities

RT nuclear liability

**LIABILITY LIMITATIONS**

INIS: 1976-12-08; ETDE: 1994-08-10

*When under an international convention or national law the liability of the nuclear operator for the damage caused is limited.*

UF limitations (liability)

RT liabilities

RT nuclear liability

RT time limitations

**liapunov method**

INIS: 1976-09-06; ETDE: 1976-11-01

USE lyapunov method

**LIBERIA**

BT1 africa

BT1 developing countries

**LIBERINS**

INIS: 1983-02-03; ETDE: 1983-03-07

UF releasing factors

UF releasing hormones

\*BT1 pituitary hormones

NT1 lh-rh

**LIBRARIES**

INIS: 1994-08-26; ETDE: 1975-11-28

RT buildings

RT data compilation

RT educational facilities

RT information

RT information centers

RT information systems

RT nuclear data collections

RT public buildings

**libya**

1997-01-06

(Until January 1997 this was a valid descriptor.)

USE libyan arab jamahiriya

**LIBYAN ARAB JAMAHIRIYA**

INIS: 1997-01-06; ETDE: 1996-12-24

(Until January 1997 this concept was indexed to LIBYA.)

UF libya

BT1 africa

BT1 arab countries

BT1 developing countries

RT oapec

RT opec

**libyan irt-1 reactor**

2005-01-24

USE irt-1 libya reactor

**LICADO PROCESS**

INIS: 2000-04-12; ETDE: 1986-04-29

*Use of liquid carbon dioxide as a non-aqueous medium for cleaning ultrafine coal.*

BT1 coal preparation

BT1 separation processes

**LICENSE APPLICATIONS**

INIS: 1996-02-12; ETDE: 1980-08-25

UF permit applications

BT1 administrative procedures

RT licenses

**LICENSES**

UF commercial licenses

UF handling licenses

UF permits

UF research licenses

NT1 construction permits

NT1 operating licenses

RT legal aspects

RT license applications

RT licensing procedures

RT licensing regulations

RT property rights

RT site approvals

**LICENSING**

NT1 reactor licensing

RT audits

RT certification

RT inspection

RT legal aspects

RT patents

RT quality assurance

RT radiation protection

RT recommendations

RT regulations

RT safety standards

RT site selection

**LICENSING PROCEDURES**

INIS: 1976-12-08; ETDE: 1992-08-17

(Prior to August 1992 this concept in ETDE was indexed to LICENSE APPLICATIONS.)

BT1 administrative procedures

RT hearings

RT licenses

RT operating licenses

**LICENSING REGULATIONS**

INIS: 1976-12-08; ETDE: 1992-10-13

\*BT1 regulations

RT licenses

RT operating licenses

RT retrofitting

RT risk assessment

RT safety analysis

RT safety reports

**LICHENS**

\*BT1 algae

\*BT1 eumycota

**LICHTENBERG ALLOY**

2000-04-12

\*BT1 bismuth base alloys

\*BT1 lead alloys

\*BT1 tin alloys

**LICHTENBERG FIGURES**

RT breakdown

RT corona discharges

RT dielectric materials

**lichtenberg process**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE coal gasification

**lidar**

INIS: 1992-04-13; ETDE: 1979-01-30

USE optical radar

**LIDO REACTOR**

UF ukaea-lido reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**LIE GROUPS**

BT1 symmetry groups

NT1 anti de sitter group

NT1 conformal groups

NT1 de sitter group

NT1 graded lie groups

NT1 o groups

NT1 poincare groups

NT2 lorentz groups

NT1 sl groups

NT1 so groups

NT2 so-10 groups

NT2 so-12 groups

NT2 so-2 groups

NT2 so-3 groups

NT2 so-4 groups

NT2 so-5 groups

NT2 so-6 groups

NT2 so-8 groups

NT1 sp groups

NT1 su groups

NT2 su-2 groups

NT2 su-3 groups

NT2 su-4 groups

NT2 su-5 groups

NT2 su-6 groups

NT2 su-7 groups

NT2 su-8 groups

NT2 su-9 groups

NT1 sw groups

NT1 u groups

NT2 u-1 groups

NT2 u-12 groups

NT2 u-2 groups

NT2 u-3 groups

NT2 u-4 groups

NT2 u-5 groups

NT2 u-6 groups

RT lattice field theory

**lie superalgebra**

INIS: 1978-11-24; ETDE: 1978-12-20

USE graded lie groups

**liebigite**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE carbonate minerals

USE uranium minerals

**life (service)**

INIS: 2000-04-12; ETDE: 1976-08-05

USE service life

**LIFE CYCLE**

RT adolescents

RT adults

RT age groups

RT aged adults

RT children

RT elderly people

RT growth

RT infants

RT life span

RT ova

RT pregnancy

RT pupae

RT reproduction

RT ripening

RT viability

**LIFE CYCLE ASSESSMENT**

INIS: 2001-03-27; ETDE: 2001-04-30

UF ecobalance

SF energy content

RT energy consumption

RT environmental impacts

RT environmental policy

RT life-cycle cost

RT resource conservation

**LIFE-CYCLE COST**

INIS: 1992-04-14; ETDE: 1976-04-19

*The estimated total cost of a system during its entire service life.*

- BT1 cost
- RT cost benefit analysis
- RT cost estimation
- RT economics
- RT external cost
- RT life cycle assessment
- RT payback period
- RT service life

**life shortening**

- USE life span

**LIFE SPAN**

- UF *life shortening*
- RT age dependence
- RT death
- RT dose commitments
- RT life cycle
- RT mortality

**life styles**

INIS: 2000-04-12; ETDE: 1978-11-14

*The manners in which the daily lives of individuals or, more generally, communities and the types of values reflected by this organization, are organized.*

(Prior to March 1997 this was a valid ETDE descriptor.)

- SEE behavior
- SEE leisure time activities
- SEE socio-economic factors

**LIFE SUPPORT SYSTEMS**

INIS: 1999-08-04; ETDE: 1979-05-02

*Systems providing atmospheric control and monitoring.*

- RT decontamination
- RT diving operations
- RT miners
- RT protective clothing
- RT respirators

**LIFETIME**

- UF *mean life*
- NT1 carrier lifetime
- NT1 service life
  - NT2 lifetime extension
- RT charge plunger method
- RT days living radioisotopes
- RT decay
- RT dsa method
- RT half-life
- RT hours living radioisotopes
- RT level widths
- RT microseconds living radioisotopes
- RT milliseconds living radioisotopes
- RT minutes living radioisotopes
- RT nanoseconds living radioisotopes
- RT particle properties
- RT particle widths
- RT seconds living radioisotopes
- RT storage life
- RT years living radioisotopes

**LIFETIME EXTENSION**

INIS: 2004-11-26; ETDE: 2004-12-01

- \*BT1 service life
- RT reactor licensing
- RT reactor operation

**LIFT CYCLES**

INIS: 2000-04-12; ETDE: 1980-08-12

*Open power cycles that use lift processes to increase the potential energy of transported water which turns a hydraulic turbine for power generation.*

- UF *foam-lift cycles*

- UF *otec foam-lift cycle*
- UF *otec lift cycles*
- SF *beck cycle*
- BT1 thermodynamic cycles
- NT1 mist-lift cycles
- RT ocean thermal power plants
- RT open-cycle systems

**lifts**

2006-08-23

- USE elevators

**LIGAMENTS**

- \*BT1 connective tissue

**ligand exchange**

INIS: 1984-04-04; ETDE: 2002-03-28

- USE ion exchange
- USE ligands

**LIGANDS**

- UF *ligand exchange*
- RT complexes
- RT coordination number
- RT crown ethers
- RT ligases
- RT stereochemistry

**LIGASES**

Code number 6.

- UF *synthetases*
- \*BT1 enzymes
- RT biosynthesis
- RT complexes
- RT ligands

**light**

- USE visible radiation

**light (zodiacal)**

- USE zodiacal light

**LIGHT BULB REACTORS**

- \*BT1 gas fueled reactors

**LIGHT BULBS**

INIS: 2000-04-12; ETDE: 1977-07-23

- UF *incandescent lamps*
- UF *lamps*
- NT1 fluorescent lamps
- RT lighting systems

**LIGHT CONE**

- BT1 space-time
- RT cherenkov radiation
- RT minkowski space
- RT relativity theory

**LIGHT EMITTING DIODES**

- UF *led (light emitting diodes)*
- \*BT1 semiconductor diodes

**light guides**

INIS: 2000-04-12; ETDE: 1982-03-29

- USE optical fibers

**LIGHT IONS**

INIS: 1977-09-15; ETDE: 1977-11-10

*Whenever appropriate use one of the specific terms listed under ION BEAMS.*

- \*BT1 ions
- RT ion beams
- RT ion detection
- RT multicharged ions

**LIGHT NUCLEI**

*For nuclei with mass 1-40.*

- BT1 nuclei
- NT1 aluminium 21
- NT1 aluminium 22
- NT1 aluminium 23
- NT1 aluminium 24
- NT1 aluminium 25

- NT1 aluminium 26
- NT1 aluminium 27
- NT1 aluminium 28
- NT1 aluminium 29
- NT1 aluminium 30
- NT1 aluminium 31
- NT1 aluminium 32
- NT1 aluminium 33
- NT1 aluminium 34
- NT1 aluminium 35
- NT1 aluminium 36
- NT1 aluminium 37
- NT1 aluminium 38
- NT1 aluminium 39
- NT1 aluminium 40
- NT1 argon 30
- NT1 argon 31
- NT1 argon 32
- NT1 argon 33
- NT1 argon 34
- NT1 argon 35
- NT1 argon 36
- NT1 argon 37
- NT1 argon 38
- NT1 argon 39
- NT1 argon 40
- NT1 beryllium 10
- NT1 beryllium 11
- NT1 beryllium 12
- NT1 beryllium 13
- NT1 beryllium 14
- NT1 beryllium 15
- NT1 beryllium 16
- NT1 beryllium 5
- NT1 beryllium 6
- NT1 beryllium 7
- NT1 beryllium 8
- NT1 beryllium 9
- NT1 boron 10
- NT1 boron 11
- NT1 boron 12
- NT1 boron 13
- NT1 boron 14
- NT1 boron 15
- NT1 boron 16
- NT1 boron 17
- NT1 boron 18
- NT1 boron 19
- NT1 boron 6
- NT1 boron 7
- NT1 boron 8
- NT1 boron 9
- NT1 calcium 34
- NT1 calcium 35
- NT1 calcium 36
- NT1 calcium 37
- NT1 calcium 38
- NT1 calcium 39
- NT1 calcium 40
- NT1 carbon 10
- NT1 carbon 11
- NT1 carbon 12
- NT1 carbon 13
- NT1 carbon 14
- NT1 carbon 15
- NT1 carbon 16
- NT1 carbon 17
- NT1 carbon 18
- NT1 carbon 19
- NT1 carbon 20
- NT1 carbon 21
- NT1 carbon 22
- NT1 carbon 8
- NT1 carbon 9
- NT1 chlorine 28
- NT1 chlorine 29
- NT1 chlorine 30
- NT1 chlorine 31
- NT1 chlorine 32

NT1 chlorine 33  
 NT1 chlorine 34  
 NT1 chlorine 35  
 NT1 chlorine 36  
 NT1 chlorine 37  
 NT1 chlorine 38  
 NT1 chlorine 39  
 NT1 chlorine 40  
 NT1 deuterium  
 NT1 fluorine 14  
 NT1 fluorine 15  
 NT1 fluorine 16  
 NT1 fluorine 17  
 NT1 fluorine 18  
 NT1 fluorine 19  
 NT1 fluorine 20  
 NT1 fluorine 21  
 NT1 fluorine 22  
 NT1 fluorine 23  
 NT1 fluorine 24  
 NT1 fluorine 25  
 NT1 fluorine 26  
 NT1 fluorine 27  
 NT1 fluorine 28  
 NT1 fluorine 29  
 NT1 fluorine 30  
 NT1 fluorine 31  
 NT1 helium 10  
 NT1 helium 2  
 NT1 helium 3  
   NT2 helium 3 a  
   NT2 helium 3 a1  
   NT2 helium 3 b  
 NT1 helium 4  
   NT2 helium i  
   NT2 helium ii  
 NT1 helium 5  
 NT1 helium 6  
 NT1 helium 7  
 NT1 helium 8  
 NT1 helium 9  
 NT1 hydrogen 1  
 NT1 hydrogen 4  
 NT1 hydrogen 5  
 NT1 hydrogen 6  
 NT1 hydrogen 7  
 NT1 lithium 10  
 NT1 lithium 11  
 NT1 lithium 12  
 NT1 lithium 13  
 NT1 lithium 3  
 NT1 lithium 4  
 NT1 lithium 5  
 NT1 lithium 6  
 NT1 lithium 7  
 NT1 lithium 8  
 NT1 lithium 9  
 NT1 magnesium 19  
 NT1 magnesium 20  
 NT1 magnesium 21  
 NT1 magnesium 22  
 NT1 magnesium 23  
 NT1 magnesium 24  
 NT1 magnesium 25  
 NT1 magnesium 26  
 NT1 magnesium 27  
 NT1 magnesium 28  
 NT1 magnesium 29  
 NT1 magnesium 30  
 NT1 magnesium 31  
 NT1 magnesium 32  
 NT1 magnesium 33  
 NT1 magnesium 34  
 NT1 magnesium 35  
 NT1 magnesium 36  
 NT1 magnesium 37  
 NT1 magnesium 38  
 NT1 magnesium 39  
 NT1 magnesium 40

NT1 neon 16  
 NT1 neon 17  
 NT1 neon 18  
 NT1 neon 19  
 NT1 neon 20  
 NT1 neon 21  
 NT1 neon 22  
 NT1 neon 23  
 NT1 neon 24  
 NT1 neon 25  
 NT1 neon 26  
 NT1 neon 27  
 NT1 neon 28  
 NT1 neon 29  
 NT1 neon 30  
 NT1 neon 31  
 NT1 neon 32  
 NT1 neon 33  
 NT1 neon 34  
 NT1 nitrogen 10  
 NT1 nitrogen 11  
 NT1 nitrogen 12  
 NT1 nitrogen 13  
 NT1 nitrogen 14  
 NT1 nitrogen 15  
 NT1 nitrogen 16  
 NT1 nitrogen 17  
 NT1 nitrogen 18  
 NT1 nitrogen 19  
 NT1 nitrogen 20  
 NT1 nitrogen 21  
 NT1 nitrogen 22  
 NT1 nitrogen 23  
 NT1 nitrogen 24  
 NT1 nitrogen 25  
 NT1 oxygen 12  
 NT1 oxygen 13  
 NT1 oxygen 14  
 NT1 oxygen 15  
 NT1 oxygen 16  
 NT1 oxygen 17  
 NT1 oxygen 18  
 NT1 oxygen 19  
 NT1 oxygen 20  
 NT1 oxygen 21  
 NT1 oxygen 22  
 NT1 oxygen 23  
 NT1 oxygen 24  
 NT1 oxygen 25  
 NT1 oxygen 26  
 NT1 oxygen 27  
 NT1 oxygen 28  
 NT1 phosphorus 21  
 NT1 phosphorus 24  
 NT1 phosphorus 25  
 NT1 phosphorus 26  
 NT1 phosphorus 27  
 NT1 phosphorus 28  
 NT1 phosphorus 29  
 NT1 phosphorus 30  
 NT1 phosphorus 31  
 NT1 phosphorus 32  
 NT1 phosphorus 33  
 NT1 phosphorus 34  
 NT1 phosphorus 35  
 NT1 phosphorus 36  
 NT1 phosphorus 37  
 NT1 phosphorus 38  
 NT1 phosphorus 39  
 NT1 phosphorus 40  
 NT1 potassium 32  
 NT1 potassium 33  
 NT1 potassium 34  
 NT1 potassium 35  
 NT1 potassium 36  
 NT1 potassium 37  
 NT1 potassium 38  
 NT1 potassium 39  
 NT1 potassium 40

NT1 scandium 36  
 NT1 scandium 37  
 NT1 scandium 38  
 NT1 scandium 39  
 NT1 scandium 40  
 NT1 silicon 22  
 NT1 silicon 23  
 NT1 silicon 24  
 NT1 silicon 25  
 NT1 silicon 26  
 NT1 silicon 27  
 NT1 silicon 28  
 NT1 silicon 29  
 NT1 silicon 30  
 NT1 silicon 31  
 NT1 silicon 32  
 NT1 silicon 33  
 NT1 silicon 34  
 NT1 silicon 35  
 NT1 silicon 36  
 NT1 silicon 37  
 NT1 silicon 38  
 NT1 silicon 39  
 NT1 silicon 40  
 NT1 sodium 18  
 NT1 sodium 19  
 NT1 sodium 20  
 NT1 sodium 21  
 NT1 sodium 22  
 NT1 sodium 23  
 NT1 sodium 24  
 NT1 sodium 25  
 NT1 sodium 26  
 NT1 sodium 27  
 NT1 sodium 28  
 NT1 sodium 29  
 NT1 sodium 30  
 NT1 sodium 31  
 NT1 sodium 32  
 NT1 sodium 33  
 NT1 sodium 34  
 NT1 sodium 35  
 NT1 sodium 37  
 NT1 sulfur 24  
 NT1 sulfur 26  
 NT1 sulfur 27  
 NT1 sulfur 28  
 NT1 sulfur 29  
 NT1 sulfur 30  
 NT1 sulfur 31  
 NT1 sulfur 32  
 NT1 sulfur 33  
 NT1 sulfur 34  
 NT1 sulfur 35  
 NT1 sulfur 36  
 NT1 sulfur 37  
 NT1 sulfur 38  
 NT1 sulfur 39  
 NT1 sulfur 40  
 NT1 titanium 38  
 NT1 titanium 39  
 NT1 titanium 40  
 NT1 tritium  
 NT1 vanadium 40  
 RT nuclear structure

**LIGHT PIPES**

RT scintillation counters

**LIGHT SCATTERING**

1994-07-01

BT1 scattering  
 RT diffuse solar radiation  
 RT optical properties  
 RT visible radiation

**LIGHT SOURCES**

BT1 radiation sources  
 RT advanced light source  
 RT advanced photon source

RT lasers  
 RT nsls  
 RT photon beams  
 RT pohang light source  
 RT swiss light source  
 RT synchrotron radiation sources  
 RT visible radiation

**LIGHT TRANSMISSION**

1992-03-30

BT1 transmission  
 RT fiber optics  
 RT opacity  
 RT optical properties

**light water cooled reactors**

INIS: 2000-04-12; ETDE: 1979-12-17

USE water cooled reactors

**light water moderated reactors**

INIS: 2000-04-12; ETDE: 1979-12-17

USE water moderated reactors

**lighter-than-air craft**

INIS: 2000-04-12; ETDE: 1980-01-15

(Prior to March 1996 AIRSHIPS was used for this concept in ETDE.)

USE aircraft

**LIGHTERING**

INIS: 2000-04-12; ETDE: 1979-08-08

*Transshipment of petroleum from VLCC to second vessel in order to reduce VLCC draft so that she can enter harbor.*

BT1 materials handling  
 RT petroleum  
 RT tanker ships  
 RT transport

**LIGHTING LOADS**

INIS: 2000-04-12; ETDE: 1981-05-18

RT lighting systems

**LIGHTING REQUIREMENTS**

INIS: 2006-03-03; ETDE: 2006-02-24

BT1 demand  
 RT brightness  
 RT daylighting  
 RT illuminance  
 RT lighting systems  
 RT visible radiation

**LIGHTING SYSTEMS**

1986-03-04

UF illumination systems  
 BT1 energy systems  
 RT ballasts  
 RT daylighting  
 RT electrical equipment  
 RT fluorescent lamps  
 RT illuminance  
 RT light bulbs  
 RT lighting loads  
 RT lighting requirements  
 RT optical systems  
 RT remote viewing equipment  
 RT skylights  
 RT visible radiation

**LIGHTNING**

BT1 electric discharges  
 NT1 ball lightning  
 RT storms  
 RT whistlers

**LIGHTNING ARRESTERS**

\*BT1 electrical equipment  
 RT circuit breakers

**lightwood**

INIS: 2000-04-12; ETDE: 1980-10-28

*A coniferous wood containing oleoresins or other volatile flammable substances. (Prior to January 1995, this was a valid ETDE descriptor.)*

USE wood

**LIGNIN**

\*BT1 polysaccharides  
 RT bark  
 RT biomass  
 RT delignification  
 RT glycosides  
 RT hemicellulose  
 RT polyacetals  
 RT wood  
 RT xylans

**LIGNITE**

SF soft coal  
 \*BT1 brown coal  
 RT subbituminous coal

**LIGROIN**

INIS: 2000-04-12; ETDE: 1975-12-16

*Any of several petroleum naphtha fractions boiling usually in the range 20 to 135 degrees C consisting chiefly of pentanes and hexanes.*

UF benzene  
 UF petroleum ether  
 \*BT1 naphtha  
 BT1 petroleum products

**LILIOPSIDA**

INIS: 1996-07-08; ETDE: 1988-12-20

(Prior to August 1996 TRILLIUM was a valid ETDE descriptor.)

UF monocotyledons  
 UF trillium  
 \*BT1 magnoliophyta  
 NT1 allium sativum  
 NT1 aloe  
 NT1 banana plants  
 NT1 buckwheat  
 NT1 cattails  
 NT1 coconut palms  
 NT1 gramineae  
 NT2 bamboo  
 NT2 cereals  
 NT3 barley  
 NT3 maize  
 NT3 millet  
 NT3 oats  
 NT3 rice  
 NT3 rye  
 NT3 sorghum  
 NT3 wheat  
 NT2 reeds  
 NT3 sugar cane  
 NT1 liliium  
 NT1 oil palms  
 NT1 onions  
 NT2 allium cepa  
 NT1 tradescantia  
 NT1 water hyacinths

**LILIUM**

\*BT1 liliopsida

**LIMBS**

1999-04-06

BT1 body  
 NT1 arms  
 NT2 hands  
 NT3 fingers  
 NT1 legs  
 NT2 feet  
 RT muscles  
 RT skeleton

**LIME-LIMESTONE WET****SCRUBBING PROCESSES**

INIS: 1992-08-24; ETDE: 1977-04-12

*Any processes for desulfurization of stack gases using a slurry of calcium oxide or calcium carbonate to absorb sulfur dioxide in a wet scrubber.*

UF jecco process  
 UF sf nateko process  
 \*BT1 desulfurization  
 BT1 scrubbing  
 NT1 bischoff process  
 RT waste processing

**LIME-SODA SINTER PROCESS**

INIS: 2000-04-12; ETDE: 1981-03-17

*A high temperature method for extracting aluminium from fly ash while also producing a by-product used in the manufacture of Portland cement.*

\*BT1 waste processing  
 RT aluminium  
 RT fly ash  
 RT materials recovery  
 RT portland cement

**LIMERICK-1 REACTOR**

Exelon Generation Co., LLC, Limerick, Pennsylvania, USA.

UF philadelphia electric power reactor-1  
 \*BT1 bwr type reactors

**LIMERICK-2 REACTOR**

Exelon Generation Co., LLC, Limerick, Pennsylvania, USA.

UF philadelphia electric power reactor-2  
 \*BT1 bwr type reactors

**LIMESTONE**

UF chalks  
 UF dolomite rock  
 \*BT1 carbonate rocks  
 NT1 travertine  
 RT calcite  
 RT calcium carbonates  
 RT dolomite  
 RT magnesium carbonates

**limestone dual alkali desulfurization process**

INIS: 2000-04-12; ETDE: 1982-12-01

USE cea-adl dual alkali process

**LIMING**

INIS: 1992-03-18; ETDE: 1984-02-10

*The addition of limestone or its oxidized derivatives to soil or water as a means of modifying pH.*

RT calcium carbonates  
 RT calcium oxides  
 RT land reclamation  
 RT ph value  
 RT pollution  
 RT pollution control  
 RT soil chemistry  
 RT soils  
 RT water

**LIMIT CYCLE**

1994-02-28

*A periodic solution of a dynamical problem towards which all other solution curves tend, in some domain of attraction.*

BT1 attractors  
 RT chemical reaction kinetics  
 RT differential equations  
 RT dynamics  
 RT equations of motion  
 RT hamiltonian function  
 RT lyapunov method  
 RT non-equilibrium plasma

RT nonlinear problems  
 RT orbits  
 RT phase space  
 RT trajectories

**limitations (liability)**

INIS: 1976-12-08; ETDE: 2002-03-28  
 USE liability limitations

**LIMITER CIRCUITS**

BT1 electronic circuits

**LIMITERS**

UF diaphragms (thermonuclear device)  
 UF insulating limiters  
 NT1 pumped limiters  
 RT pinch devices  
 RT pinch effect  
 RT plasma confinement  
 RT plasma diagnostics  
 RT plasma impurities  
 RT thermonuclear devices

**LIMITING FRAGMENTATION**

UF cumulative effect  
 UF fragmentation (limiting)  
 BT1 hypothesis  
 RT asymptotic solutions  
 RT inclusive interactions  
 RT laboratory system  
 RT lorentz transformations  
 RT multiple production  
 RT particle models

**LIMITING VALUES**

Upper and/or lower bounds on a physical property determined theoretically or experimentally.

SF constraints  
 RT nuclear properties  
 RT particle properties  
 RT thermodynamic properties

**limnanthes alba**

INIS: 1991-12-16; ETDE: 1982-03-11  
 USE meadow foam

**LIMNOLOGY**

The physical, chemical, meteorological, and esp. the biological and ecological conditions in inland waters.

RT acid neutralizing capacity  
 RT aquatic ecosystems  
 RT eutrophication  
 RT fresh water  
 RT hydrosphere  
 RT oceanography  
 RT sediment-water interfaces  
 RT sedimentary basins

**LIMONITE**

\*BT1 iron ores  
 \*BT1 oxide minerals  
 RT goethite  
 RT hematite  
 RT iron oxides

**linacs**

USE linear accelerators

**LINDANE**

INIS: 1976-05-07; ETDE: 1976-08-04  
 UF gamma benzene hexachloride  
 UF gamma hexachlorohexane  
 \*BT1 chlorinated alicyclic hydrocarbons  
 \*BT1 insecticides

**LINE BROADENING**

UF broadening (line)  
 UF spectral broadening  
 NT1 doppler broadening  
 RT line narrowing

RT line widths  
 RT optical depth curve  
 RT spectra  
 RT spectroscopic curve of growth  
 RT stark effect

**LINE DEFECTS**

\*BT1 crystal defects  
 NT1 crowdions  
 NT1 dislocations  
 NT2 edge dislocations  
 NT2 screw dislocations

**line losses**

INIS: 2000-04-12; ETDE: 1979-01-30  
 The various energy losses occurring in a transmission line.  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE power losses  
 USE power transmission lines

**LINE NARROWING**

INIS: 1976-07-16; ETDE: 1976-09-15  
 UF spectral narrowing  
 RT line broadening  
 RT line widths  
 RT spectra

**LINE WIDTHS**

RT level widths  
 RT line broadening  
 RT line narrowing  
 RT spectra

**lineaments**

INIS: 2000-04-12; ETDE: 1984-12-10  
 Linear topographic features that reveal a characteristic, as a fault or the subsurface structure.  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE geologic structures

**LINEAR ABSORPTION MODELS**

1976-02-11  
 Models satisfying operator equation  $a = rs$ , where  $a$  is the physical scattering amplitude,  $r$  is the product of the input regge pole amplitude, and  $s$  is a rescattering factor; and the scalar equation for partial wave projections  $a(b) = r(b)s(b)$ , where  $b = (j + 1/2)/k$  is the impact parameter.

UF absorption model  
 UF absorption models (linear)  
 UF models (linear absorption)  
 \*BT1 particle models  
 RT partial waves  
 RT regge poles  
 RT scattering amplitudes

**LINEAR ACCELERATORS**

1996-08-06  
 (HELAC, ING LINAC, MINNESOTA UNIV LINAC, and ZERAN LINAC have been valid ETDE descriptors.)

UF helac  
 UF ing linac  
 UF intense neutron generator linac  
 UF linacs  
 UF minnesota univ linac  
 UF zeran linac  
 BT1 accelerators  
 NT1 anu superconducting linac  
 NT1 beat wave accelerators  
 NT1 beijing electron-positron collider  
 NT1 beijing proton linac  
 NT1 brookhaven 200-mev linac  
 NT1 cebaf accelerator  
 NT1 cern linac  
 NT1 finit linac

NT1 frascati linac  
 NT1 hilacs  
 NT2 atlas superconducting linac  
 NT2 superhilac  
 NT1 jaeri linac  
 NT1 kek linac  
 NT1 kharkov linac  
 NT1 lampf linac  
 NT1 linear colliders  
 NT2 stanford linear collider  
 NT2 tesla linear collider  
 NT1 lnl advanced test accelerator  
 NT1 mea linac  
 NT1 mit bates linac  
 NT1 nrl linac  
 NT1 orela  
 NT1 orsay linac  
 NT1 quadrupole linacs  
 NT1 rilac  
 NT1 saclay linac  
 NT1 stanford 1.2-gev linac  
 NT1 stanford 20-gev linac  
 NT1 swierk linac  
 NT1 unilac  
 NT1 wakefield accelerators  
 RT drift tubes  
 RT kek photon factory  
 RT neutron source facilities  
 RT pigmi facilities

**LINEAR COLLIDERS**

INIS: 1993-08-02; ETDE: 1987-12-15  
 \*BT1 linear accelerators  
 NT1 stanford linear collider  
 NT1 tesla linear collider  
 RT colliding beams

**linear combination of atomic orbitals**

1993-11-09  
 USE lcao method

**linear energy transfer**

USE let

**LINEAR HARD CORE PINCH DEVICES**

UF inverse pinch devices (linear)  
 UF tubular pinch devices (linear)  
 UF unpinch devices  
 \*BT1 linear pinch devices  
 RT hard core pinch

**LINEAR MOMENTUM**

UF impulse (linear momentum)  
 UF momentum (linear)  
 NT1 longitudinal momentum  
 NT1 transverse momentum  
 RT angular momentum  
 RT dalitz plot  
 RT energy-momentum tensor  
 RT kinetic energy  
 RT linear momentum operators  
 RT linear momentum resolution  
 RT mass  
 RT motion  
 RT prism plot  
 RT velocity

**LINEAR MOMENTUM OPERATORS**

\*BT1 quantum operators  
 RT linear momentum

**LINEAR MOMENTUM RESOLUTION**

BT1 resolution  
 RT linear momentum

**LINEAR MOMENTUM TRANSFER**

UF transfer (linear momentum)  
 BT1 momentum transfer  
 RT energy transfer



- RT* four momentum transfer  
*RT* straight-line path approximation

**LINEAR PINCH DEVICES**

1996-06-28

(Prior to July 1996 MEGATRON was a valid ETDE descriptor.)

- UF* *megatron*  
 \*BT1 open plasma devices  
 \*BT1 pinch devices  
 NT1 linear hard core pinch devices  
 NT1 linear screw pinch devices  
 NT1 linear theta pinch devices  
 NT2 isar devices  
 NT2 scylla devices  
 NT1 linear z pinch devices  
*RT* linear pinch type reactors

**LINEAR PINCH TYPE REACTORS**

INIS: 2000-04-12; ETDE: 1976-09-15

- BT1 thermonuclear reactors  
*RT* linear pinch devices

**LINEAR PROGRAMMING**

1999-08-13

*Optimization of operations or procedures in terms of maximized, or minimized, functions of many variables subject to constraints.*

- BT1 calculation methods  
*RT* dynamic programming  
*RT* econometrics  
*RT* mathematical models  
*RT* nonlinear programming  
*RT* optimization

**LINEAR RATEMETERS**

- \*BT1 counting ratemeters

**LINEAR SCREW PINCH DEVICES**

- UF* *combined pinch devices (linear)*  
 \*BT1 linear pinch devices  
*RT* screw pinch

**linear-segmented array collector**

INIS: 2000-04-12; ETDE: 1978-10-25

- USE slat type collectors

**LINEAR THETA PINCH DEVICES**

1996-07-18

- UF* *azimuthal pinch devices (linear)*  
*UF* *bsg devices*  
*UF* *orthogonal pinch devices (linear)*  
*UF* *piace devices*  
 \*BT1 linear pinch devices  
 NT1 isar devices  
 NT1 scylla devices  
*RT* theta pinch

**LINEAR Z PINCH DEVICES**

- UF* *longitudinal pinch devices (linear)*  
*UF* *z pinch devices (linear)*  
 \*BT1 linear pinch devices  
*RT* longitudinal pinch

**LINERS**

1977-11-21

- UF* *linings*  
*RT* containers  
*RT* lining processes  
*RT* linus reactors  
*RT* seals  
*RT* shells  
*RT* surface coating  
*RT* tanks

**LINGAO-1 REACTOR**

2000-05-17

Shenzhen, Guangdong, China.

- \*BT1 pwr type reactors

**LINGAO-2 REACTOR**

2000-05-17

Shenzhen, Guangdong, China.

- \*BT1 pwr type reactors

**LINGEN REACTOR***UF* *kernkraftwerk lingen**UF* *kwl reactor*

- \*BT1 bwr type reactors

**LINING PROCESSES***RT* liners*RT* surface coating**linings**

INIS: 1977-11-21; ETDE: 2002-03-28

- USE liners

**linking (borehole)**

INIS: 2000-04-12; ETDE: 1976-11-29

- USE borehole linking

**LINOLEIC ACID**

- \*BT1 monocarboxylic acids

**LINOLENIC ACID**

- \*BT1 monocarboxylic acids

**linotrons**

2000-04-12

*Combinations of linear and circular accelerators in which particles pass through linac alternately in one and then the other direction, turning around in special reflectors with constant magnetic fields.*

(Prior to June 1991 this was a valid ETDE descriptor.)

- USE cyclic accelerators

**LINSEED OIL***UF* *flaxseed oil*

\*BT1 triglycerides

\*BT1 vegetable oils

*RT* flax plants*RT* plasticizers**linseed plants**

- USE flax plants

**LINUS REACTORS**

INIS: 1981-08-31; ETDE: 1978-01-23

BT1 thermonuclear reactors

*RT* implosions*RT* liners*RT* magnetic compression**liouville equation**

ETDE: 2002-03-28

- USE boltzmann-vlasov equation

**LIOUVILLE THEOREM***RT* phase space*RT* statistical mechanics**lipase**

INIS: 2000-04-12; ETDE: 1981-01-12

Code number 3.1.1.3.

(From January 1981 to January 1990, this was a valid ETDE descriptor.)

- USE lipases

**LIPASES**

(From January 1981 to January 1990, this was not a valid ETDE descriptor and material from these years was indexed to LIPASE.)

*UF* *lipase*

- \*BT1 carboxylesterases

**LIPIDS**

1996-10-23

*UF* *lanolin**UF* *wool fat*

- BT1 organic compounds

NT1 glycolipids

NT2 cerebrosides

NT2 gangliosides

NT1 lipopolysaccharides

NT1 lipoproteins

NT2 apolipoproteins

NT2 myelin

NT1 phospholipids

NT2 cardiolipin

NT2 lecithins

NT2 sphingomyelins

NT1 triglycerides

NT2 corn oil

NT2 linseed oil

NT2 olive oil

NT2 peanut oil

NT2 soybean oil

NT2 triolein

*RT* cholesterol*RT* choline*RT* chylomicrons*RT* esters*RT* fats*RT* liposomes*RT* lipotropic factors*RT* valinomycin**LIPIODOL**

BT1 contrast media

\*BT1 oils

\*BT1 organic iodine compounds

**lipoic acid (alpha)**

- USE thioctic acid

**LIPOPOLYSACCHARIDES**

\*BT1 lipids

\*BT1 polysaccharides

**LIPOPROTEINS***UF* *proteolipids*

\*BT1 lipids

\*BT1 proteins

NT1 apolipoproteins

NT1 myelin

*RT* membrane proteins**LIPOSOMES**

INIS: 1980-02-26; ETDE: 1979-07-18

*Lipoidal inclusions in the cytoplasm or substances prepared in vitro of alternating lipid and water layers and proposed as target-specific pharmaceutical delivery systems in organisms.*

*UF* *multilamellar lipid vesicles**RT* carriers*RT* cell constituents*RT* chemotherapy*RT* cytoplasm*RT* lipids**LIPOTROPIC FACTORS**

BT1 drugs

NT1 betaine

NT1 choline

NT1 ethionine

NT1 inositol

NT1 methionine

NT1 phytic acid

NT1 thioctic acid

*RT* lipids*RT* vitamin b group**LIPPMANN-SCHWINGER EQUATION**

\*BT1 integral equations

*RT* blankenbecler-sugar equations*RT* faddeev equations*RT* quantum mechanics*RT* quasipotential equation*RT* schwinger variational method

**lips**

USE oral cavity

**liptinite**

INIS: 2000-04-12; ETDE: 1987-07-24

USE exinite

**LIQUEFACTION**

UF liquefying

BT1 thermochemical processes

NT1 coal liquefaction

NT2 bcl process

NT2 bergius process

NT2 catalytic hydrosolvation process

NT2 cffc process

NT2 coed process

NT2 costeam process

NT2 dow liquefaction process

NT2 Exxon liquefaction process

NT2 flash hydropyrolysis process

NT2 h-coal process

NT2 liquid phase methanol process

NT2 occidental flash pyrolysis process

NT2 pamco process

NT2 pyrosol process

NT2 sasol-ii process

NT2 sasol process

NT2 src-ii process

NT2 synthoil process

NT2 synthol process

NT2 tsl process

NT1 in-situ liquefaction

RT melting

RT vapor condensation

**LIQUEFIED GASES**

INIS: 1992-03-10; ETDE: 1982-01-21

\*BT1 liquids

NT1 liquefied natural gas

NT1 liquefied petroleum gases

RT cryogenic fluids

**LIQUEFIED NATURAL GAS**

1992-03-10

UF lng

\*BT1 liquefied gases

\*BT1 natural gas

RT liquefied petroleum gases

RT liquid fuels

RT lng industry

RT lng plants

RT natural gas liquids

RT north star project

RT terminal facilities

**LIQUEFIED PETROLEUM GASES**

1992-03-10

UF lp-gas

\*BT1 liquefied gases

\*BT1 natural gas liquids

BT1 petroleum products

RT heating oils

RT lease condensates

RT liquefied natural gas

RT lpg industry

RT plant condensates

**liquefiers**

2000-04-12

USE vapor condensers

**liquefying**

ETDE: 2002-03-28

USE liquefaction

**liquid asphalt**

INIS: 1992-04-02; ETDE: 1976-01-23

USE petroleum residues

**LIQUID COLUMN****CHROMATOGRAPHY**

INIS: 1977-04-07; ETDE: 1977-06-03

\*BT1 chromatography

NT1 high-performance liquid chromatography

**LIQUID CONTAMINATION****MONITORS**

\*BT1 radiation monitors

RT contamination

**LIQUID CRYSTALS**

BT1 crystals

\*BT1 liquids

RT pockels cell

**liquid-dominated hydrothermal convective systems**

INIS: 2000-04-12; ETDE: 1976-03-11

SEE geothermal hot-water systems

**LIQUID DROP MODEL**

\*BT1 nuclear models

RT neutron emission

RT weizsaecker formula

**liquid effluents**

USE liquid wastes

**LIQUID FLOW**

BT1 fluid flow

RT hydraulic conductivity

RT hydrodynamics

RT liquids

RT multiphase flow

RT thermal conductivity

RT two-phase flow

**LIQUID FUELS**

BT1 fuels

NT1 alcohol fuels

NT2 ethanol fuels

NT2 methanol fuels

NT1 diesel fuels

NT1 fuel oils

NT2 heating oils

NT2 residual fuels

NT1 fuel solutions

NT1 gasohol

NT1 gasoline

NT2 unleaded gasoline

NT1 jet engine fuels

NT1 kerosene

NT1 liquid metal fuels

NT1 molten salt fuels

RT automotive fuels

RT coal liquids

RT liquefied natural gas

**LIQUID HOLDING RECOVERY**

BT1 biological recovery

**LIQUID HOMOGENEOUS REACTORS**

\*BT1 fluid fueled reactors

\*BT1 homogeneous reactors

NT1 aqueous homogeneous reactors

NT2 ai-1-77 reactor

NT2 argus reactor

NT2 ber-2 reactor

NT2 byu 1-77 reactor

NT2 cesnef reactor

NT2 dr-1 reactor

NT2 fir reactor

NT2 gidra reactor

NT2 hre-2 reactor

NT2 jrr-1 reactor

NT2 kewb reactor

NT2 kstr reactor

NT2 nescr-1 reactor

NT2 nevada university reactor

NT2 prnc-1-77 reactor

NT2 supo reactor

NT2 wrrr reactor

RT fuel solutions

**LIQUID ION EXCHANGERS**

\*BT1 ion exchange materials

**LIQUID IONIZATION CHAMBERS**

\*BT1 ionization chambers

**LIQUID LASERS**

INIS: 1999-08-16; ETDE: 1977-05-07

BT1 lasers

NT1 dye lasers

**liquid-liquid extraction**

INIS: 1975-10-23; ETDE: 2002-03-28

USE solvent extraction

**liquid magnets**

INIS: 2000-04-12; ETDE: 1985-03-12

(Prior to March 1997 MAGNETIC LIQUIDS was used for this concept in ETDE.)

USE liquids

USE magnetic materials

**liquid metal coolant**

USE liquid metals

**LIQUID METAL COOLED REACTORS**

BT1 reactors

NT1 lithium cooled reactors

NT1 lmfbr type reactors

NT2 beloyarsk-3 reactor

NT2 beloyarsk-4 reactor

NT2 bn-1600 reactor

NT2 bn-350 reactor

NT2 bn-800 reactor

NT2 bor-60 reactor

NT2 cdfr reactor

NT2 clinch river breeder reactor

NT2 dfr reactor

NT2 ebr-1 reactor

NT2 ebr-2 reactor

NT2 enrico fermi-1 reactor

NT2 joyo reactor

NT2 kalpakkam lmfbr reactor

NT2 monju reactor

NT2 pfr reactor

NT2 phenix reactor

NT2 plbr reactor

NT2 rapsodie reactor

NT2 sbr-1 reactor

NT2 sbr-2 reactor

NT2 sbr-5 reactor

NT2 snr-2 reactor

NT2 snr reactor

NT2 super phenix reactor

NT1 mercury cooled reactors

NT2 clementine reactor

NT2 sbr-2 reactor

NT1 nak cooled reactors

NT2 ebr-1 reactor

NT2 s10fs-1 reactor

NT2 s10fs-3 reactor

NT2 s10fs-4 reactor

NT2 s2ds reactor

NT2 s8dr reactor

NT2 s8er reactor

NT2 ser reactor

NT2 snaptran reactors

NT1 potassium cooled reactors

NT2 ebr-1 reactor

NT2 ser reactor

NT2 snap 10 reactor

NT3 s10fs-1 reactor

NT3 s10fs-3 reactor

NT3 s10fs-4 reactor

NT2 snap-tsfr reactor  
 NT2 snaptran reactors  
 NT1 sodium cooled reactors  
 NT2 beloyarsk-3 reactor  
 NT2 beloyarsk-4 reactor  
 NT2 bn-1600 reactor  
 NT2 bn-350 reactor  
 NT2 bn-800 reactor  
 NT2 bor-60 reactor  
 NT2 cdf reactor  
 NT2 clinch river breeder reactor  
 NT2 ebr-1 reactor  
 NT2 ebr-2 reactor  
 NT2 enrico fermi-1 reactor  
 NT2 ffr reactor  
 NT2 hnpf reactor  
 NT2 knk-2 reactor  
 NT2 knk reactor  
 NT2 lampre-1 reactor  
 NT2 monju reactor  
 NT2 pfr reactor  
 NT2 phenix reactor  
 NT2 rapsodie reactor  
 NT2 sbr-5 reactor  
 NT2 sefor reactor  
 NT2 ser reactor  
 NT2 sgr type reactors  
 NT3 sre reactor  
 NT2 snap 10 reactor  
 NT3 s10fs-1 reactor  
 NT3 s10fs-3 reactor  
 NT3 s10fs-4 reactor  
 NT2 snap-tsfr reactor  
 NT2 snaptran reactors  
 NT2 snr-2 reactor  
 NT2 snr reactor  
 NT2 super phenix reactor  
 NT2 zrr reactor  
 NT1 szr type reactors  
 NT2 knk-2 reactor  
 NT2 knk reactor

#### LIQUID METAL FUELS

\*BT1 liquid fuels  
 \*BT1 nuclear fuels  
 RT fluid fueled reactors

#### LIQUID-METAL MHD GENERATORS

1975-12-09

\*BT1 closed-cycle mhd generators

#### liquid metal test facilities

2000-04-12

USE test facilities

#### liquid metal-water reactions

INIS: 2000-04-12; ETDE: 1977-06-02

USE molten metal-water reactions

#### LIQUID METALS

UF liquid metal coolant

\*BT1 liquids  
 \*BT1 metals  
 RT coolants

#### LIQUID PENETRANT INSPECTION

UF fluorescent penetrant tests

UF penetrant inspection (liquid)

\*BT1 nondestructive testing

#### LIQUID PHASE EPITAXY

INIS: 1999-07-30; ETDE: 1982-10-20

*Epitaxial growth resulting from precipitation from a supersaturated melt in contact with the substrate.*

\*BT1 epitaxy  
 RT crystal growth

#### liquid phase methanation process

INIS: 2000-04-12; ETDE: 1976-05-17

*Process being developed by Chem Systems, Inc., under auspices of ERDA and AGA.*

*Overall objective is to develop practical and useful process for converting coal-derived synthesis gases to methane as major constituent of sng, using liquid fluidized beds. (Prior to March 1994, this was a valid ETDE descriptor.)*

USE coal gasification

#### LIQUID PHASE METHANOL PROCESS

INIS: 1999-05-19; ETDE: 1983-05-21

*Indirect coal liquefaction process developed by Chem Systems for DOE.*

\*BT1 coal liquefaction  
 RT methanol

#### liquid-phase sintering

USE sintering

#### LIQUID PROPORTIONAL COUNTERS

\*BT1 proportional counters

#### LIQUID SCINTILLATION DETECTORS

\*BT1 scintillation counters  
 RT liquid scintillators  
 RT scintillation quenching

#### LIQUID SCINTILLATORS

BT1 phosphors  
 RT liquid scintillation detectors  
 RT scintillation counting  
 RT terphenyls

#### liquid sodium-water reactions

INIS: 1977-09-15; ETDE: 2002-03-28

USE molten metal-water reactions

#### LIQUID WASTES

UF effluents (liquid)  
 UF liquid effluents  
 UF sewage disposal  
 UF sewage treatment  
 UF waste solutions  
 SF emissions (industrial)  
 BT1 wastes  
 NT1 spent liquors  
 NT1 waste water

NT2 shale tar water  
 RT acid mine drainage  
 RT bioadsorbents  
 RT biochemical oxygen demand  
 RT biological wastes  
 RT ceramic melters  
 RT chemical effluents  
 RT chemical oxygen demand  
 RT emissions tax  
 RT ground disposal  
 RT ground water  
 RT industrial wastes  
 RT leachates  
 RT organic wastes  
 RT plumes  
 RT radioactive effluents  
 RT reinjection  
 RT surface waters  
 RT waste disposal  
 RT waste disposal acts  
 RT waste forms  
 RT waste processing  
 RT water  
 RT water pollution monitors  
 RT wet oxidation processes

#### LIQUIDS

UF ferrofluids

UF liquid magnets  
 UF magnetic liquids  
 BT1 fluids  
 NT1 black liquids  
 NT1 coal liquids  
 NT1 liquefied gases  
 NT2 liquefied natural gas  
 NT2 liquefied petroleum gases  
 NT1 liquid crystals  
 NT1 liquid metals  
 NT1 natural gas liquids  
 NT2 gas condensates  
 NT2 lease condensates  
 NT2 liquefied petroleum gases  
 NT2 plant condensates  
 RT dispersions  
 RT droplets  
 RT hydrostatic bearings  
 RT liquid flow  
 RT phase diagrams  
 RT pour point  
 RT structure factors  
 RT vapors  
 RT void fraction

#### LISP

INIS: 1994-09-13; ETDE: 1985-08-08

BT1 programming languages  
 RT artificial intelligence

#### litek lamp

INIS: 2000-04-12; ETDE: 1977-07-23

USE fluorescent lamps

#### LITHIUM

\*BT1 alkali metals

#### LITHIUM 10

\*BT1 light nuclei  
 \*BT1 lithium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

#### LITHIUM 11

\*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 lithium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

#### LITHIUM 11 REACTIONS

INIS: 1990-01-30; ETDE: 1990-02-13

\*BT1 heavy ion reactions

#### LITHIUM 11 TARGET

INIS: 1998-01-27; ETDE: 1998-02-24

BT1 targets

#### LITHIUM 12

1992-09-22

\*BT1 light nuclei  
 \*BT1 lithium isotopes  
 \*BT1 odd-odd nuclei

#### LITHIUM 13

\*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 lithium isotopes  
 \*BT1 odd-even nuclei

#### LITHIUM 3

\*BT1 light nuclei  
 \*BT1 lithium isotopes  
 \*BT1 odd-even nuclei

#### LITHIUM 4

\*BT1 light nuclei  
 \*BT1 lithium isotopes  
 \*BT1 odd-odd nuclei

#### LITHIUM 5

\*BT1 alpha decay radioisotopes  
 \*BT1 light nuclei

- \*BT1 lithium isotopes
- \*BT1 odd-even nuclei

**LITHIUM 6**

- \*BT1 light nuclei
- \*BT1 lithium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 stable isotopes
- RT lithium 6 beams
- RT lithium 6 reactions

**LITHIUM 6 BEAMS**

- \*BT1 ion beams
- RT lithium 6

**LITHIUM 6 REACTIONS**

- \*BT1 heavy ion reactions
- RT lithium 6

**LITHIUM 6 TARGET**

ETDE: 1976-07-09

- BT1 targets

**LITHIUM 7**

- \*BT1 light nuclei
- \*BT1 lithium isotopes
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- RT lithium 7 beams
- RT lithium 7 reactions

**LITHIUM 7 BEAMS**

- \*BT1 ion beams
- RT lithium 7

**LITHIUM 7 REACTIONS**

- \*BT1 heavy ion reactions
- RT lithium 7

**LITHIUM 7 TARGET**

ETDE: 1976-07-09

- BT1 targets

**LITHIUM 8**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 lithium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**LITHIUM 8 REACTIONS**

INIS: 1979-09-18; ETDE: 1979-10-23

- \*BT1 heavy ion reactions

**LITHIUM 8 TARGET**

INIS: 1991-10-22; ETDE: 1991-11-26

- BT1 targets

**LITHIUM 9**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 lithium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**LITHIUM 9 REACTIONS**

INIS: 1991-03-22; ETDE: 1991-04-09

- \*BT1 heavy ion reactions

**LITHIUM 9 TARGET**

INIS: 1976-03-17; ETDE: 1976-07-12

- BT1 targets

**LITHIUM ADDITIONS**

Alloys containing not more than 1% Li are listed here.

- \*BT1 lithium alloys

**LITHIUM ALLOYS**

Alloys containing more than 1% Li.

- BT1 alloys
- NT1 lithium additions
- NT1 lithium base alloys

**LITHIUM ARSENIDES**

INIS: 2000-04-12; ETDE: 1984-09-05

- \*BT1 arsenides
- \*BT1 lithium compounds

**LITHIUM BASE ALLOYS**

- \*BT1 lithium alloys

**LITHIUM BORIDES**

- \*BT1 borides
- \*BT1 lithium compounds

**LITHIUM BROMIDES**

- \*BT1 bromides
- \*BT1 lithium halides

**LITHIUM CARBIDES**

- \*BT1 carbides
- \*BT1 lithium compounds

**LITHIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 lithium compounds

**LITHIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 lithium halides

**LITHIUM-CHLORINE BATTERIES**

2000-04-12

- \*BT1 metal-gas batteries

**LITHIUM COMPLEXES**

- \*BT1 alkali metal complexes

**LITHIUM COMPOUNDS**

1997-06-17

- BT1 alkali metal compounds
- NT1 lithium arsenides
- NT1 lithium borides
- NT1 lithium carbides
- NT1 lithium carbonates
- NT1 lithium halides
- NT2 lithium bromides
- NT2 lithium chlorides
- NT2 lithium fluorides
- NT2 lithium iodides
- NT1 lithium hydrides
- NT2 lithium deuterides
- NT2 lithium tritides
- NT1 lithium hydroxides
- NT1 lithium nitrates
- NT1 lithium nitrides
- NT1 lithium oxides
- NT1 lithium perchlorates
- NT1 lithium phosphates
- NT1 lithium phosphides
- NT1 lithium selenides
- NT1 lithium silicates
- NT1 lithium silicides
- NT1 lithium sulfates
- NT1 lithium sulfides
- NT1 lithium tellurides
- NT1 lithium titanates
- NT1 lithium tungstates
- NT1 lithium uranates

***lithium cooled reactor experiment***

2000-04-12

- USE experimental reactors
- USE lithium cooled reactors

**LITHIUM COOLED REACTORS**

1976-05-07

- UF *lcrc reactor*
- UF *lithium cooled reactor experiment*
- \*BT1 liquid metal cooled reactors

**LITHIUM-COPPER CHLORIDE BATTERIES**

INIS: 2000-04-12; ETDE: 1976-03-22

- \*BT1 metal-nonmetal batteries

**LITHIUM DEUTERIDES**

- \*BT1 deuterides
- \*BT1 lithium hydrides

**LITHIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 lithium halides
- RT dielectric track detectors
- RT flibe
- RT thermoluminescent dosimeters

**LITHIUM HALIDES**

1981-08-06

- \*BT1 halides
- \*BT1 lithium compounds
- NT1 lithium bromides
- NT1 lithium chlorides
- NT1 lithium fluorides
- NT1 lithium iodides

**LITHIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 lithium compounds
- NT1 lithium deuterides
- NT1 lithium tritides

**LITHIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 lithium compounds

**LITHIUM IODIDES**

- \*BT1 inorganic phosphors
- \*BT1 iodides
- \*BT1 lithium halides

**LITHIUM IONS**

- \*BT1 ions

**LITHIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 lithium 10
- NT1 lithium 11
- NT1 lithium 12
- NT1 lithium 13
- NT1 lithium 3
- NT1 lithium 4
- NT1 lithium 5
- NT1 lithium 6
- NT1 lithium 7
- NT1 lithium 8
- NT1 lithium 9

**LITHIUM NITRATES**

- \*BT1 lithium compounds
- \*BT1 nitrates

**LITHIUM NITRIDES**

- \*BT1 lithium compounds
- \*BT1 nitrides

**LITHIUM OXIDES**

- \*BT1 lithium compounds
- \*BT1 oxides

**LITHIUM PERCHLORATES**

INIS: 1977-10-17; ETDE: 1975-10-28

- \*BT1 lithium compounds
- \*BT1 perchlorates

**LITHIUM PHOSPHATES**

- \*BT1 lithium compounds
- \*BT1 phosphates

**LITHIUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1984-12-26

- \*BT1 lithium compounds
- \*BT1 phosphides

**LITHIUM SELENIDES**

- \*BT1 lithium compounds
- \*BT1 selenides

**LITHIUM SILICATES**

- \*BT1 lithium compounds
- \*BT1 silicates
- RT petalite

**LITHIUM SILICIDES**

- INIS: 2000-04-12; ETDE: 1979-02-23
- \*BT1 lithium compounds
- \*BT1 silicides

**LITHIUM SULFATES**

- \*BT1 lithium compounds
- \*BT1 sulfates

**LITHIUM SULFIDES**

- \*BT1 lithium compounds
- \*BT1 sulfides

**LITHIUM-SULFUR BATTERIES**

- 1993-01-28
- \*BT1 metal-nonmetal batteries

**LITHIUM TELLURIDES**

- INIS: 1977-06-14; ETDE: 1976-11-29
- \*BT1 lithium compounds
- \*BT1 tellurides

**LITHIUM TITANATES**

- 2003-06-04
- \*BT1 lithium compounds
- \*BT1 titanates

**LITHIUM TRITIDES**

- 1976-02-05
- \*BT1 lithium hydrides
- \*BT1 tritides

**LITHIUM TUNGSTATES**

- INIS: 1978-05-19; ETDE: 1977-06-02
- \*BT1 lithium compounds
- \*BT1 tungstates

**LITHIUM URANATES**

- INIS: 1975-11-27; ETDE: 1975-08-19
- \*BT1 lithium compounds
- \*BT1 uranates

**LITHIUM-WATER-AIR BATTERIES**

- INIS: 2000-04-12; ETDE: 1976-01-07
- \*BT1 metal-gas batteries

**LITHOLOGY**

- 1993-03-23
- Description of the physical character of a rock as determined by eye or a low power magnifier and based on color, structure, mineralogic components and grain size.
- \*BT1 petrology
- RT rocks

**LITHOTYPES**

- INIS: 2000-04-12; ETDE: 1978-05-03
- RT coal
- RT macerals
- RT petrology

**LITHUANIA**

- INIS: 1997-08-20; ETDE: 1993-01-28
- (Prior to January 1993, this was indexed by USSR.)
- SF soviet union
- SF union of soviet socialist republics
- SF ussr
- \*BT1 eastern europe

**LITHUANIAN ORGANIZATIONS**

- INIS: 1999-07-14; ETDE: 1999-08-30
- BT1 national organizations

**litigation**

- INIS: 2000-04-12; ETDE: 1978-09-13
- USE lawsuits

**LITR REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1968.

- UF low intensity test reactor
- UF us aec low intensity test reactor
- UF us aec low intensity training reactor
- \*BT1 enriched uranium reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**LITTER SIZE**

- RT progeny

**LITTLE BOY**

INIS: 2000-05-30; ETDE: 1984-11-29  
The name of the nuclear weapon exploded over Hiroshima, Japan.

- \*BT1 nuclear weapons
- RT a-bomb survivors
- RT atmospheric explosions
- RT hiroshima
- RT nuclear explosions

**LITTLE ICE AGE**

INIS: 1993-06-04; ETDE: 1987-02-13  
Cold period lasting from the 15th to the 19th centuries in the northern hemisphere.

- RT climates
- RT paleoclimatology

**LITTLE TENNESSEE RIVER**

INIS: 2000-04-12; ETDE: 1981-05-18

- \*BT1 rivers
- RT hydroelectric power plants
- RT tennessee
- RT tennessee valley authority
- RT tennessee valley region

**live time**

INIS: 1984-04-04; ETDE: 2002-03-28  
Time during which equipment is actually sensitive to incoming signals.

- USE dead time

**LIVER**

- BT1 digestive system
- \*BT1 glands
- RT abdomen
- RT biliary tract
- RT glycogen
- RT hepatectomy
- RT hepatitis
- RT hepatomas
- RT jaundice
- RT liver cells
- RT liver cirrhosis
- RT metabolic diseases
- RT metabolism
- RT peritoneum
- RT portal system
- RT reticuloendothelial system

**LIVER CELLS**

INIS: 1983-06-30; ETDE: 1982-06-07

- UF hepatocytes
- \*BT1 somatic cells
- RT liver

**LIVER CIRRHOSIS**

- \*BT1 digestive system diseases
- RT liver

**livermore pool type reactor**

- USE lptr reactor

**livestock**

- USE domestic animals

**living standards**

INIS: 2000-04-12; ETDE: 1978-10-23  
USE standard of living

**lixiviation**

- USE leaching

**LIZARDS**

- \*BT1 reptiles

**ljublana triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-03-28  
USE triga-2-ljubljana reactor

**ljungstrom process**

2000-04-12  
Electrothermal production of shale oil in-situ. (Prior to January 1995, this was a valid ETDE descriptor.)  
USE in-situ retorting  
USE oil shales

**LLAMAS**

- \*BT1 ruminants

**llnl**

INIS: 1984-04-04; ETDE: 2002-03-28  
USE lawrence livermore national laboratory

**LLNL ADVANCED TEST ACCELERATOR**

INIS: 1988-05-13; ETDE: 1987-12-15  
Linear induction accelerator at Lawrence Livermore Laboratory, Livermore, California, USA.  
SF advanced test accelerator  
\*BT1 linear accelerators  
RT electron beams  
RT induction

**LLOYDMINSTER DEPOSIT**

2000-04-12  
\*BT1 oil sand deposits

**LM DEVICES**

Linear multipoles.  
\*BT1 internal ring devices  
RT multipolar configurations

**LMFBR TYPE REACTORS**

SF medec process  
\*BT1 fbr type reactors  
\*BT1 liquid metal cooled reactors  
NT1 beloyarsk-3 reactor  
NT1 beloyarsk-4 reactor  
NT1 bn-1600 reactor  
NT1 bn-350 reactor  
NT1 bn-800 reactor  
NT1 bor-60 reactor  
NT1 cdf reactor  
NT1 clinch river breeder reactor  
NT1 dfr reactor  
NT1 ebr-1 reactor  
NT1 ebr-2 reactor  
NT1 enrico fermi-1 reactor  
NT1 joyo reactor  
NT1 kalpakkam lmfbr reactor  
NT1 monju reactor  
NT1 pfr reactor  
NT1 phenix reactor  
NT1 plbr reactor  
NT1 rapsodie reactor  
NT1 sbr-1 reactor  
NT1 sbr-2 reactor  
NT1 sbr-5 reactor  
NT1 snr-2 reactor  
NT1 snr reactor  
NT1 super phenix reactor

**Ing**

2000-04-12

USE liquefied natural gas

**LNG INDUSTRY**

INIS: 1993-04-27; ETDE: 1978-06-14

\*BT1 natural gas industry

RT liquefied natural gas

RT lng plants

**LNG PLANTS**

INIS: 1993-04-27; ETDE: 1976-01-23

BT1 industrial plants

RT liquefied natural gas

RT lng industry

RT natural gas

**Ing spills**

INIS: 1992-04-09; ETDE: 1980-06-06

USE gas spills

**LNLS STORAGE RING**

1991-02-11

Brazilian Synchrotron Radiation Source.

UF brazilian lnls synchrotron

BT1 storage rings

\*BT1 synchrotron radiation sources

**LO AGUIRRE RECH-2 REACTOR**

INIS: 1989-02-24; ETDE: 1989-03-20

Lo Aguirre, Santiago, Chile.

\*BT1 pool type reactors

\*BT1 research reactors

**load (dynamic)**

INIS: 2000-04-12; ETDE: 1976-08-05

USE dynamic loads

**LOAD ANALYSIS**

INIS: 1999-04-22; ETDE: 1981-04-17

Measurement and study of the load characteristics of the more important services rendered by the utility.

UF analysis (load)

UF load characteristics

RT electric utilities

RT gas utilities

RT load management

RT peak load

**load characteristics**

INIS: 1999-04-22; ETDE: 1981-04-17

USE load analysis

**LOAD COLLECTOR RATIO**

INIS: 2000-04-12; ETDE: 1981-05-18

Ratio of building load coefficient (btu/dd) to the solar collector area (sq. Ft.).

UF lcr

RT buildings

RT heating load

RT passive solar heating systems

**LOAD MANAGEMENT**

INIS: 1977-11-21; ETDE: 1976-03-22

Management of electric power demands on a distribution grid to achieve maximum power-production efficiency.

BT1 management

RT capacity

RT dispersed storage and generation

RT electric power

RT load analysis

RT marginal-cost pricing

RT off-peak energy storage

RT peak load

RT peak-load pricing

RT peaking power plants

RT time-of-use pricing

**LOADERS**

INIS: 2000-04-12; ETDE: 1985-04-09

\*BT1 haulage equipment

NT1 cutter loaders

NT2 coal plows

NT2 continuous miners

NT2 heading machines

NT2 shearer loaders

RT materials handling

RT mine haulage

**LOADING**

INIS: 1997-06-05; ETDE: 1978-08-08

(Until June 1997 this concept was indexed to MATERIALS HANDLING.)

BT1 materials handling

RT unloading

**loading (fission reactor)**

1982-11-29

USE reactor fueling

**loading machines (fission reactor)**

1993-11-09

USE reactor charging machines

**LOADING RATE**

INIS: 2000-05-02; ETDE: 1978-07-05

RT chemical reactors

**loads (dynamic)**

INIS: 1981-02-27; ETDE: 2002-03-28

USE dynamic loads

**loads (power demand)**

INIS: 1984-04-04; ETDE: 2002-03-28

USE power demand

**loads (static)**

INIS: 1981-02-27; ETDE: 1976-08-05

USE static loads

**loads (stresses)**

INIS: 1984-04-04; ETDE: 2002-03-28

USE stresses

**LOAM**

BT1 soils

RT clays

**loan guarantees**

INIS: 1982-12-03; ETDE: 1981-01-27

(Prior to March 1997 this was a valid ETDE descriptor.)

USE financial incentives

**loans**

INIS: 2000-04-12; ETDE: 1980-04-14

(Prior to March 1996 FINANCIAL

ASSISTANCE was used for this concept in ETDE.)

USE financing

**lobachevsky-bolyai geometry**

USE lobachevsky geometry

**LOBACHEVSKY GEOMETRY**

1999-08-24

UF lobachevsky-bolyai geometry

UF lobachevsky space

\*BT1 geometry

RT mathematical space

**lobachevsky space**

USE lobachevsky geometry

**lobbies**

INIS: 1982-12-03; ETDE: 1980-12-08

USE interest groups

**LOBSTERS**

INIS: 1977-04-07; ETDE: 1976-01-07

\*BT1 decapods

RT prawns

RT seafood

**loca**

INIS: 2000-04-12; ETDE: 1983-03-07

USE loss of coolant

**LOCAL AREA NETWORKS**

1994-04-12

UF lans

BT1 computer networks

**local boiling**

USE subcooled boiling

**LOCAL FALLOUT**

UF close-in fallout

BT1 fallout

RT civil defense

RT external irradiation

RT fallout shelters

RT nuclear weapons

RT shelters

**local galaxy**

USE milky way

**LOCAL GOVERNMENT**

INIS: 1981-02-27; ETDE: 1977-08-09

RT government policies

RT legislation

RT national government

RT public officials

RT regional cooperation

RT regulations

RT social services

RT state government

RT us federal assistance programs

**local group**

USE galaxies

**LOCAL IRRADIATION**

BT1 irradiation

RT abscopal radiation effects

RT external irradiation

RT local radiation effects

RT partial body irradiation

RT spatial dose distributions

**LOCAL RADIATION EFFECTS**

\*BT1 biological radiation effects

NT1 osteoradionecrosis

NT1 radiation burns

NT1 radiodermatitis

RT local irradiation

**local thermodynamic equilibrium**

USE lte

**LOCALITY**

RT nonlocal potential

RT phi4-field theory

RT quantum field theory

**localization (biological)**

USE biological localization

**LOCK-IN AMPLIFIERS**

INIS: 2000-04-12; ETDE: 1984-03-06

Amplifiers that use some automatic synchronization with an external reference signal to measure very weak signals in the presence of very strong noise.

\*BT1 amplifiers

RT electronic circuits

RT gain

**locks (security)**

USE physical protection devices

**LOCOMOTIVES**

INIS: 1993-03-25; ETDE: 1986-01-15

- \*BT1 trains
- RT railroad cars
- RT railways

**LOCUST TREES**

INIS: 1999-07-20; ETDE: 1986-04-29

- UF *robinia pseudoacacia*
- \*BT1 leguminosae
- \*BT1 trees
- RT mycorrhizas

**LOCUSTS**

- \*BT1 grasshoppers

**LODOCHNIKITE**

2000-04-12

- \*BT1 oxide minerals
- \*BT1 thorium minerals
- \*BT1 uranium minerals
- RT thorium oxides
- RT titanium oxides
- RT uranium oxides

**LOFRECO PROCESS**

INIS: 2000-04-12; ETDE: 1980-06-06

*Horizontal in-situ retorting process with low front end cost developed by Geokinetics Inc. For areas where shale bed is relatively thin and close to the surface.*

- RT oil shales

**LOFT REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1985.

- UF *loss of fluid test reactor*
- \*BT1 pwr type reactors
- \*BT1 tank type reactors
- \*BT1 test reactors

**LOGARITHMIC RATEMETERS**

- \*BT1 counting ratemeters

**logging while drilling**

INIS: 2000-04-12; ETDE: 1978-12-11

- USE mwd systems

**logic (mathematics)**

INIS: 2000-04-12; ETDE: 1975-11-11

- USE mathematical logic

**LOGIC CIRCUITS**

- BT1 electronic circuits
- RT gating circuits

**lollipop event**

1997-01-28

(Prior to February 1996 this was a valid ETDE descriptor.)

- USE vela project

**london convention for prevention of marine pollution**

INIS: 1993-11-09; ETDE: 2002-03-28

*1972 London Convention on Prevention of Marine Pollution by Dumping of Waste and other Matter.*

- USE lcpmpdpw

**LONDON EQUATION**

- BT1 equations
- RT superconductivity

**london safety of life at sea convention**

- USE solas convention

**LONG COUNTERS**

- \*BT1 moderating detectors

**LONG ISLAND SOUND**

INIS: 1992-04-08; ETDE: 1981-03-17

- \*BT1 atlantic ocean
- \*BT1 estuaries
- RT connecticut
- RT mid-atlantic bight
- RT new york

**long-lens spectrometers**

- USE magnetic lens spectrometers

**long-range interactions**

- USE interaction range

**LONG-RANGE TRANSPORT**

INIS: 1992-09-16; ETDE: 1983-08-25

- \*BT1 environmental transport
- RT air pollution
- RT pollutants
- RT pollution
- RT transfrontier pollution
- RT water pollution

**LONG SHOT EVENT**

- BT1 vela project

**long term intake**

- USE chronic intake

**long term irradiation**

- USE chronic irradiation

**LONG VALLEY**

INIS: 1992-06-04; ETDE: 1976-04-19

- BT1 valleys
- RT california

**LONG WAVE RADIATION**

- UF *low frequency radiation*
- \*BT1 radiowave radiation

**LONGITUDINAL MOMENTUM**

- UF *momentum (longitudinal)*
- BT1 linear momentum
- RT center-of-mass system
- RT nuclear reactions
- RT particle interactions
- RT particle rapidity
- RT transverse momentum

**LONGITUDINAL PINCH**

- UF *zet pinch*
- BT1 pinch effect
- NT1 belt pinch
- RT linear z pinch devices
- RT tlp devices

**longitudinal pinch devices (linear)**

1993-11-09

- USE linear z pinch devices

**longitudinal pinch devices (toroidal)**

1993-11-09

- USE tlp devices

**LONGWALL MINING**

INIS: 1992-07-21; ETDE: 1977-03-08

- \*BT1 underground mining
- RT coal mining
- RT hydraulic mining

**loops (coolant)**

- USE coolant loops

**loops (in pile)**

- USE in pile loops

**LOOSE PARTS MONITORING**

INIS: 1981-08-18; ETDE: 1976-12-16

*Monitoring foreign, misplaced, or loose objects in reactor cores and cooling systems.*

- BT1 monitoring
- RT reactor instrumentation

- RT reactor monitoring systems

**LOPRA REACTOR**

*Univ. of Illinois at Urbana-Champaign, Urbana, Illinois, USA. Decommissioned.*

- UF *low power reactor assembly*
- UF *university of illinois lopra reactor*
- \*BT1 triga type reactors

**LORENTZ FORCE**

- RT charged particles
- RT interactions
- RT magnetic fields
- RT ponderomotive force

**LORENTZ GAS**

- UF *lorentz plasma*
- \*BT1 fully ionized gases

**LORENTZ GROUPS**

- \*BT1 poincare groups
- RT anti de sitter space
- RT de sitter space

**LORENTZ INVARIANCE**

- BT1 invariance principles
- RT lorentz transformations
- RT special relativity theory

**lorentz plasma**

- USE lorentz gas

**LORENTZ POLES**

- UF *toller poles*
- RT regge poles

**LORENTZ TRANSFORMATIONS**

1999-08-25

- BT1 transformations
- RT center-of-mass system
- RT laboratory system
- RT limiting fragmentation
- RT lorentz invariance
- RT minkowski space
- RT poincare groups
- RT space-time
- RT special relativity theory

**LOS ALAMOS**

INIS: 1992-06-04; ETDE: 1979-03-05

- \*BT1 new mexico
- BT1 urban areas

**los alamos meson physics facility**

- USE lampf linac

**los alamos molten plutonium reactor experiment**

1993-11-09

- USE lampre-1 reactor

**los alamos national laboratory**

INIS: 1984-04-04; ETDE: 1989-06-30

- USE lanl

**los alamos omega west reactor**

1993-11-09

- USE owr reactor

**los alamos scientific laboratory**

1995-04-03

*Name changed in 1980 to Los Alamos National Laboratory.*

(Older material should have been indexed to LASL, which was a valid descriptor until March 1995.)

- USE lanl

**los alamos water boiler reactor**

2000-04-12

- USE supo reactor

**LOS ANGELES**

1992-07-21

- \*BT1 california
- BT1 urban areas

**LOSS CONE**

- RT earth magnetosphere
- RT loss cone instability
- RT plasma
- RT plasmopause
- RT solar wind

**LOSS CONE INSTABILITY**

- \*BT1 plasma microinstabilities
- RT loss cone

**LOSS OF COOLANT**

- UF loca
- \*BT1 reactor accidents
- RT blowdown
- RT coolants
- RT core flooding systems
- RT core spray systems
- RT loss of flow
- RT reactor cooling systems

**LOSS OF FLOW**

- \*BT1 reactor accidents
- RT flow blockage
- RT loss of coolant

**loss of fluid test reactor**

- USE loft reactor

**LOSSES**

- UF lost circulation
- NT1 chromosome losses
- NT1 energy losses
  - NT2 ac losses
  - NT2 heat losses
  - NT2 power losses
  - NT2 relaxation losses
- NT1 particle losses
- RT accounting
- RT inventories
- RT material balance
- RT material unaccounted for
- RT nuclear materials management
- RT safeguards

**lost circulation**

INIS: 2000-04-12; ETDE: 1981-10-24

Excessive loss of drilling fluids to exposed formations.

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE drilling fluids
- USE losses

**LOTUS FACILITY**

INIS: 1985-12-10; ETDE: 1986-01-16

- RT breeding blankets
- RT hybrid reactors

**LOUISIANA**

- \*BT1 usa
- RT mississippi river
- RT us gulf coast

**louvain isochronous cyclotron**

INIS: 1984-01-18; ETDE: 2002-03-28

- USE cyclone cyclotron

**love waves**

INIS: 2000-04-12; ETDE: 1978-07-05

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE seismic surface waves

**lovelace biomedical and environmental research institute**

INIS: 2000-04-12; ETDE: 1982-07-27

- USE inhalation toxicology research institute

**LOVIISA-1 REACTOR**

1976-08-13

Loviisa, Finland.

- UF imatran voima-1 reactor
- UF imatran voima power reactor
- UF loviisa reactor
- \*BT1 wwcr type reactors

**LOVIISA-2 REACTOR**

1976-08-13

Loviisa, Finland.

- UF imatran voima-2 reactor
- \*BT1 wwcr type reactors

**loviisa reactor**

2000-04-12

- USE loviisa-1 reactor

**LOVOZERITE**

2000-04-12

- \*BT1 silicate minerals
- RT sodium silicates
- RT zirconium silicates

**LOVOZERO**

2000-04-12

- \*BT1 russian federation

**LOW ALLOY STEELS**

INIS: 1996-11-13; ETDE: 1988-11-09

- UF steel-20n14
- UF steel-astm-a350 (gr 3)
- UF steel-din-1-6348
- UF steel-ni3mov
- UF steel-ni4
- \*BT1 steels
- NT1 steel-astm-a350
- NT1 steel-astm-a387
- NT1 steel-astm-a508
- NT1 steel-astm-a533
- NT1 steel-cr2mo
  - NT2 steel-astm-a542
- NT1 steel-cr2moninb
- NT1 steel-cr2mov
- NT1 steel-cr2nimov
- NT1 steel-cr5mo
- NT1 steel-cralnim
- NT1 steel-crmo
- NT1 steel-crmov
- NT1 steel-crni
- NT1 steel-mncumo
  - NT2 steel-astm-a537
- NT1 steel-mnmo
  - NT2 steel-astm-a302
- NT1 steel-mnnimo
  - NT2 steel-astm-a533-b
- NT1 steel-mnnimov
- NT1 steel-ni3cr
  - NT1 steel-ni3crmo
    - NT2 steel-astm-a543
- NT1 steel-ni3crmov
- NT1 steel-ni4crw
- NT1 steel-nicr
  - NT1 steel-nicrmo
  - NT1 steel-nimocr

**low-angle silicon-sheet growth method**

INIS: 2000-04-12; ETDE: 1982-07-27

- USE crystal growth methods

**LOW-BETA PLASMA**

Beta from 0 to 0.01.

- BT1 plasma
- RT beta ratio

**LOW BTU GAS**

2000-04-12

150 to 250 btu per cubic foot.

- UF pyrotek process
- \*BT1 fuel gas
- NT1 producer gas
- RT gegas process
- RT woodall-duckham process

**LOW CARBON-HIGH ALLOY STEELS**

INIS: 1996-11-13; ETDE: 1988-12-16

High alloy steels with not more than 0.05% C.

- UF stainless steel-44ln
- UF steel-cr13ni6mo-1
- UF steel-cr26ni5mo-1
- UF steel-ni17cr14motti-1
- \*BT1 stainless steels
- NT1 steel-cr11ni10mo2ti-1
- NT1 steel-cr17cu4ni4nb-1
  - NT2 stainless steel-17-4ph
- NT1 steel-cr17ni12mo3-1
  - NT2 stainless steel-316l
  - NT2 stainless steel-zcnd17-13
- NT1 steel-cr18ni10-1
- NT1 steel-cr19ni10-1
  - NT2 stainless steel-304l
- NT1 steel-cr20ni11-1
  - NT2 stainless steel-308l
- NT1 steel-ni36cr12ti3al-1

**LOW DOSE IRRADIATION**

- BT1 irradiation
- RT chronic irradiation
- RT dose rates
- RT dose-response relationships
- RT radiation doses

**LOW-EMISSION VEHICLES**

2004-11-02

Vehicles with much lower amounts of polluting emissions than usual, e.g. ELECTRIC VEHICLES.

- UF zero-emission vehicles
- BT1 vehicles
- RT air pollution abatement

**LOW-ENERGY BUILDINGS**

2004-02-11

Buildings using significantly less energy (e.g., for domestic water and space heating) than similar buildings in the same location which lack advanced energy conservation measures.

- BT1 buildings
- RT energy audits
- RT energy conservation
- RT energy management systems

**low energy electron diffraction**

- USE electron diffraction

**LOW-ENERGY THEOREM**

- UF soft pion theorem
- UF soft-pion theorem
- RT current algebra

**LOW EQUATION**

- BT1 equations

**low flux reactor petten**

- USE lfr reactor

**low frequency radiation**

- USE long wave radiation

**LOW-HEAD HYDROELECTRIC POWER PLANTS**

INIS: 1992-04-06; ETDE: 1978-08-08

Heads less than 15 meters.

- \*BT1 hydroelectric power plants
- RT microgeneration



RT small-scale hydroelectric power plants

**LOW INCOME GROUPS**

INIS: 2000-07-24; ETDE: 1978-04-05

UF poor people  
 \*BT1 minority groups  
 RT economics  
 RT handicapped people  
 RT high income groups  
 RT income  
 RT socio-economic factors

**low intensity test reactor**

USE litr reactor

**LOW LEVEL COUNTERS**

\*BT1 radiation detectors  
 RT low level counting

**LOW LEVEL COUNTING**

INIS: 1976-08-17; ETDE: 1976-11-01

BT1 counting techniques  
 RT low level counters

**LOW-LEVEL RADIOACTIVE****WASTES**

INIS: 1978-05-19; ETDE: 1978-01-23  
*Wastes containing less than  $5 \times 10 \exp(-5)$  microcuries/milliliter of radioactivity.*

\*BT1 radioactive wastes  
 RT alpha-bearing wastes  
 RT bohunice radioactive waste processing center  
 RT compact commissions  
 RT high-level radioactive wastes  
 RT intermediate-level radioactive wastes  
 RT konrad ore mine  
 RT morsleben salt mine  
 RT nuclear waste policy acts

**low power reactor assembly**

2000-04-12

USE lopra reactor

**low power test facility-nrts**

USE lptf reactor

**low pressure**

(Prior to November 2003 this was a valid descriptor.)

SEE pressure range kilo pa  
 SEE pressure range pa

**LOW PRESSURE COOLANT****INJECTION**

1977-09-06

UF lpci  
 \*BT1 eccs  
 RT reactor safety

**low temperature**

1992-01-23

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range 0065-0273 k

**lowell technical institute reactor**

1993-11-09

USE ltir reactor

**LOWER HYBRID CURRENT DRIVE**

INIS: 1989-07-19; ETDE: 1989-08-01

BT1 non-inductive current drive  
 RT lower hybrid heating

**LOWER HYBRID HEATING**

1983-03-15

UF lhr heating  
 UF lower hybrid resonance heating  
 \*BT1 high-frequency heating  
 RT lower hybrid current drive

**lower hybrid resonance heating**

1983-03-15

USE lower hybrid heating

**lp-gas**

INIS: 2000-04-12; ETDE: 1977-08-24

USE liquefied petroleum gases

**lpci**

1977-09-06

(Prior to July 1985, this was a valid ETDE descriptor.)

USE low pressure coolant injection

**LPG INDUSTRY**

INIS: 1993-03-10; ETDE: 1982-12-01

\*BT1 petroleum industry  
 RT liquefied petroleum gases

**LPR REACTOR**

2000-04-12

*Babcock and Wilcox, Lynchburg, Virginia, USA. Shut down in 1981.*

UF babcock and wilcox lpr reactor  
 UF lynchburg pool reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 materials testing reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**LPTF REACTOR**

INEEL, Idaho Falls, Idaho, USA.

UF low power test facility-nrts  
 UF nrts-lptf reactor  
 \*BT1 zero power reactors

**LPTR REACTOR**

*Univ. of California, Lawrence Livermore Laboratory, Livermore, California, USA. Shut down in 1980.*

UF livermore pool type reactor  
 UF us aec lptr reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**LR-0 REACTOR**

INIS: 1998-07-07; ETDE: 1982-01-07

(Until July 1998, this was a forbidden term and this concept was indexed by LVR-15 REACTOR.)

UF czechoslovak lr-0 reactor  
 UF rez lr-0 reactor  
 \*BT1 pool type reactors  
 \*BT1 zero power reactors

**LSZ THEORY**

UF lehmann-symanzik-zimmermann method

\*BT1 axiomatic field theory

**LT-3 TOKAMAK**

UF canberra tokamak  
 \*BT1 tokamak devices

**LT-4 TOKAMAK**

INIS: 1984-06-21; ETDE: 1984-07-10

\*BT1 tokamak devices

**LTE**

UF local thermodynamic equilibrium  
 BT1 equilibrium  
 RT thermodynamics

**LTH**

UF luteotropic hormone  
 UF prolactin  
 \*BT1 gonadotropins

RT mammary glands

RT progesterone

**LTIR REACTOR**

*Univ. of Lowell, Lowell, Massachusetts, USA.*

UF lowell technical institute reactor  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**LUBRICANTS**

UF synthetic lubricants  
 SF mineral oil(s)  
 NT1 gas lubricants  
 NT1 greases  
 NT1 lubricating oils  
 NT1 solid lubricants  
 RT cutting fluids  
 RT gears  
 RT lubrication  
 RT tribology

**LUBRICATING OILS**

BT1 lubricants  
 \*BT1 oils  
 BT1 petroleum products  
 RT meadow foam  
 RT tribology  
 RT waste oil refineries  
 RT waste oils

**lubricating properties**

INIS: 2000-04-12; ETDE: 1985-04-24

(Prior to March 1997 this was a valid ETDE descriptor.)

USE lubrication

**LUBRICATION**

(From April 1985 till March 1997

LUBRICATING PROPERTIES was a valid ETDE descriptor.)

UF lubricating properties  
 RT bearings  
 RT gears  
 RT greases  
 RT hydrostatic bearings  
 RT lubricants  
 RT tribology

**lucas process**

INIS: 2000-04-12; ETDE: 1977-04-12

*Low-sulfur flue gas from Claus plants is incinerated with low surplus of air, passed through a coke filter to remove sulfur trioxide, and oxygen, and hydrogen sulfide, and stripped of sulfur dioxide by absorption in aqueous alkali phosphate solution. The sulfur is recovered.*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE desulfurization

**luccu oil**

USE olive oil

**LUCENS REACTOR**

\*BT1 carbon dioxide cooled reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 hwgr type reactors  
 \*BT1 pressure tube reactors  
 \*BT1 thermal reactors

**LUCIE-1 REACTOR**

*Florida Power and Light Co., Fort Pierce, Florida, USA.*

UF hutchinson island-1 reactor  
 UF st lucie-1 reactor  
 \*BT1 pwr type reactors

**LUCIE-2 REACTOR**

*Florida Power and Light Co., Fort Pierce, Florida, USA.*

UF hutchinson island-2 reactor

*UF* *st lucie-2 reactor*  
 \*BT1 pwr type reactors

**LUCIFERASE**

\*BT1 oxidases

**LUCIFERIN**

\*BT1 albumins

**LUCITE**

\*BT1 plastics  
 \*BT1 polyacrylates  
*RT* pmma

**LUGOL**

*UF* *lugol solution*  
*RT* glycerol  
*RT* iodine  
*RT* potassium iodides

**lugol solution**

USE lugol

**lumber industry**

*INIS: 1992-03-10; ETDE: 1979-01-30*  
 USE wood products industry

**luminal**

USE phenobarbital

**LUMINESCENCE**

\*BT1 photon emission  
 NT1 bioluminescence  
 NT1 cathodoluminescence  
 NT1 chemiluminescence  
 NT1 electroluminescence  
 NT1 fluorescence  
 NT2 resonance fluorescence  
 NT1 lyoluminescence  
 NT1 phosphorescence  
 NT1 photoluminescence  
 NT1 radioluminescence  
 NT2 radiothermoluminescence  
 NT1 thermoluminescence  
 NT2 radiothermoluminescence  
*RT* glow curve  
*RT* noctilucent clouds  
*RT* traps

**LUMINESCENT CHAMBERS**

*RT* phosphors  
*RT* scintillation counters

**LUMINESCENT CONCENTRATORS**

*INIS: 2000-04-12; ETDE: 1980-02-11*  
*Solar concentrators based on light absorption and reemission by luminescent molecules dispersed in a transparent medium and on light guiding by total internal reflections.*  
*UF* *fluorescent concentrators*  
 \*BT1 solar concentrators  
*RT* phosphors

**LUMINESCENT DOSEMETERS**

\*BT1 dosimeters  
 NT1 rpl dosimeters  
 NT1 thermoluminescent dosimeters  
*RT* dielectric track detectors  
*RT* glass scintillators  
*RT* phosphors

**LUMINOL**

*INIS: 2000-04-12; ETDE: 1982-01-21*  
*A crystalline compound giving a bluish luminescence when oxidized.*  
*UF* *5-amino-2,3-dihydro-1,4-phthalazine-dione*  
 \*BT1 amines  
 \*BT1 phthalazines  
*RT* chemiluminescence  
*RT* ketones

**LUMINOSITY**

\*BT1 optical properties  
*RT* brightness  
*RT* visibility

**luminous flux density**

*INIS: 1986-07-09; ETDE: 1981-10-24*  
 USE illuminance

**LUMINOUS PAINTS**

\*BT1 paints  
*RT* dial painters

**lummus clean fuel firm coal process**

*INIS: 2000-04-12; ETDE: 1981-10-24*  
 USE coal liquefaction

**LUNA SPACE PROBES**

*INIS: 1979-02-21; ETDE: 1979-03-28*  
 \*BT1 space vehicles

**LUNAR ATMOSPHERE**

\*BT1 satellite atmospheres  
*RT* lunar materials  
*RT* moon

**LUNAR MATERIALS**

*UF* *materials (lunar)*  
 BT1 materials  
*RT* anorthosites  
*RT* apollo project  
*RT* dusts  
*RT* lunar atmosphere  
*RT* moon  
*RT* rocks

**lunar occultation**

USE eclipse

**lund synchrotron**

USE lusy

**lung cells**

*INIS: 1978-11-24; ETDE: 1978-04-06*  
 USE respiratory tract cells

**LUNG CLEARANCE**

\*BT1 excretion  
*RT* exhalation  
*RT* lungs  
*RT* respiratory system

**LUNGS**

*UF* *alveoli (pulmonary)*  
*UF* *pulmonary lavage*  
 \*BT1 organs  
 BT1 respiratory system  
*RT* blood circulation  
*RT* bronchi  
*RT* chest  
*RT* diaphragm  
*RT* emphysema  
*RT* lavage  
*RT* lung clearance  
*RT* lymphatic system  
*RT* pleura  
*RT* pneumoconioses  
*RT* pneumonia  
*RT* pneumonitis  
*RT* respiration  
*RT* respiratory tract cells

**LUPUS**

\*BT1 immune system diseases  
*RT* skin  
*RT* skin diseases

**LURGI CFB GASIFICATION PROCESS**

*INIS: 2000-04-12; ETDE: 1986-10-07*  
*Circulating fluidized bed gasification process.*  
 \*BT1 coal gasification

*RT* lurgi process

**LURGI PROCESS**

*2000-04-12*  
*A process in which noncaking coal is converted into intermediate- or high-btu gas at 1150 to 1400 degrees F and 350 to 450 psi in a moving bed gasifier. Substitution of air for oxygen will produce low-btu gas.*  
 \*BT1 coal gasification  
*RT* lurgi cfb gasification process  
*RT* lurgi slagging process  
*RT* sasol-ii process  
*RT* sng processes

**LURGI-RUHRGAS PROCESS**

*2000-04-12*  
*An indirect-heat process for retorting finely crushed shale. Heat-carrier solids (sand grains, coke particles, or spent shale solids) are mixed with shale in a screw-type conveyor where retorting takes place.*  
*RT* oil shales  
*RT* retorting

**LURGI SLAGGING PROCESS**

*INIS: 2000-04-12; ETDE: 1979-03-29*  
 \*BT1 coal gasification  
*RT* lurgi process

**LUSY**

*UF* *lund synchrotron*  
 \*BT1 synchrotrons

**LUTEINIZING HORMONE**

*ETDE: 2005-01-28*  
*(Prior to January 2005 LH was used for this concept.)*  
*UF* *interstitial cell stim hormone*  
*UF* *lh (luteinizing hormone)*  
 \*BT1 glycoproteins  
 \*BT1 gonadotropins  
*RT* androgens  
*RT* estrous cycle  
*RT* lh-rh

**luteotropic hormone**

USE lth

**LUTETIUM**

\*BT1 rare earths

**LUTETIUM 150**

*2007-02-15*  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rare earth nuclei

**LUTETIUM 151**

*INIS: 1983-09-05; ETDE: 1982-07-27*  
 \*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rare earth nuclei

**LUTETIUM 152**

*INIS: 1988-10-10; ETDE: 1987-11-24*  
 \*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 153**

*INIS: 1986-05-05; ETDE: 1986-07-03*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes

- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 154***1984-11-30*

- \*BT1 electron capture radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LUTETIUM 155***INIS: 1976-01-27; ETDE: 1975-09-12*

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 156***INIS: 1976-11-08; ETDE: 1976-09-14*

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 157***INIS: 1978-04-21; ETDE: 1978-07-06*

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LUTETIUM 158***INIS: 1979-12-20; ETDE: 1980-01-24*

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LUTETIUM 159***INIS: 1980-12-01; ETDE: 1981-01-09*

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LUTETIUM 160***INIS: 1979-12-20; ETDE: 1980-01-24*

- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LUTETIUM 161**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 162***INIS: 1976-07-06; ETDE: 1976-04-19*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes

- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 163***INIS: 1979-12-20; ETDE: 1980-01-24*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 164**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 165**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 166**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 167**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 168**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 169**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 170**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 171**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes

- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 172**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 173**

- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LUTETIUM 174**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LUTETIUM 174 TARGET***INIS: 1975-12-19; ETDE: 1976-07-12*

- BT1 targets

**LUTETIUM 175**

- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**LUTETIUM 175 TARGET***ETDE: 1976-07-12*

- BT1 targets

**LUTETIUM 176**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LUTETIUM 176 TARGET***ETDE: 1976-07-09*

- BT1 targets

**LUTETIUM 177**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 178**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 179**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 180**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes

- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 181**

*INIS: 1982-06-09; ETDE: 1982-07-08*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 182**

*1982-06-09*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 183**

*1983-03-14*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LUTETIUM 184**

*INIS: 1988-03-08; ETDE: 1988-04-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 lutetium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LUTETIUM 187**

*INIS: 1992-09-22; ETDE: 1982-06-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM ADDITIONS**

*Alloys containing not more than 1% Lu are listed here.*

- \*BT1 lutetium alloys
- \*BT1 rare earth additions

**LUTETIUM ALLOYS**

*Alloys containing more than 1% Lu.*

- \*BT1 rare earth alloys
- NT1 lutetium additions
- NT1 lutetium base alloys

**LUTETIUM BASE ALLOYS**

- \*BT1 lutetium alloys

**LUTETIUM BORIDES**

- \*BT1 borides
- \*BT1 lutetium compounds

**LUTETIUM BROMIDES**

- \*BT1 bromides
- \*BT1 lutetium compounds

**LUTETIUM CARBIDES**

- \*BT1 carbides
- \*BT1 lutetium compounds

**LUTETIUM CARBONATES**

*INIS: 2000-04-12; ETDE: 1989-05-11*

- \*BT1 carbonates
- \*BT1 lutetium compounds

**LUTETIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 lutetium compounds

**LUTETIUM COMPLEXES**

- \*BT1 rare earth complexes

**LUTETIUM COMPOUNDS**

*1997-06-17*

- BT1 rare earth compounds
- NT1 lutetium borides
- NT1 lutetium bromides
- NT1 lutetium carbides
- NT1 lutetium carbonates
- NT1 lutetium chlorides
- NT1 lutetium fluorides
- NT1 lutetium hydrides
- NT1 lutetium hydroxides
- NT1 lutetium iodides
- NT1 lutetium nitrates
- NT1 lutetium oxides
- NT1 lutetium perchlorates
- NT1 lutetium phosphates
- NT1 lutetium selenides
- NT1 lutetium silicates
- NT1 lutetium silicides
- NT1 lutetium sulfates
- NT1 lutetium sulfides
- NT1 lutetium tungstates

**LUTETIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 lutetium compounds

**LUTETIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 lutetium compounds

**LUTETIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 lutetium compounds

**LUTETIUM IODIDES**

- \*BT1 iodides
- \*BT1 lutetium compounds

**LUTETIUM IONS**

- \*BT1 ions

**LUTETIUM ISOTOPES**

- BT1 isotopes
- NT1 lutetium 150
- NT1 lutetium 151
- NT1 lutetium 152
- NT1 lutetium 153
- NT1 lutetium 154
- NT1 lutetium 155
- NT1 lutetium 156
- NT1 lutetium 157
- NT1 lutetium 158
- NT1 lutetium 159
- NT1 lutetium 160
- NT1 lutetium 161
- NT1 lutetium 162
- NT1 lutetium 163
- NT1 lutetium 164
- NT1 lutetium 165
- NT1 lutetium 166
- NT1 lutetium 167
- NT1 lutetium 168
- NT1 lutetium 169
- NT1 lutetium 170
- NT1 lutetium 171
- NT1 lutetium 172
- NT1 lutetium 173
- NT1 lutetium 174
- NT1 lutetium 175
- NT1 lutetium 176
- NT1 lutetium 177
- NT1 lutetium 178
- NT1 lutetium 179
- NT1 lutetium 180
- NT1 lutetium 181
- NT1 lutetium 182
- NT1 lutetium 183

NT1 lutetium 184

NT1 lutetium 187

**LUTETIUM NITRATES**

- \*BT1 lutetium compounds
- \*BT1 nitrates

**LUTETIUM OXIDES**

- \*BT1 lutetium compounds
- \*BT1 oxides

**LUTETIUM PERCHLORATES**

*1996-06-28*

(From June 1996 to November 2007

LUTETIUM COMPOUNDS + PERCHLORATES was used for this concept.)

- \*BT1 lutetium compounds
- \*BT1 perchlorates

**LUTETIUM PHOSPHATES**

*INIS: 1975-10-23; ETDE: 1975-12-16*

- \*BT1 lutetium compounds
- \*BT1 phosphates

**LUTETIUM SELENIDES**

*INIS: 1996-06-28; ETDE: 1975-11-28*

(From June 1996 to November 2007

LUTETIUM COMPOUNDS + SELENIDES was used for this concept.)

- \*BT1 lutetium compounds
- \*BT1 selenides

**LUTETIUM SILICATES**

*INIS: 1979-02-21; ETDE: 1977-04-12*

- \*BT1 lutetium compounds
- \*BT1 silicates

**LUTETIUM SILICIDES**

*INIS: 1978-07-31; ETDE: 1978-09-11*

- \*BT1 lutetium compounds
- \*BT1 silicides

**LUTETIUM SULFATES**

- \*BT1 lutetium compounds
- \*BT1 sulfates

**LUTETIUM SULFIDES**

- \*BT1 lutetium compounds
- \*BT1 sulfides

**LUTETIUM TUNGSTATES**

*INIS: 2000-04-12; ETDE: 1990-05-16*

- \*BT1 lutetium compounds
- \*BT1 tungstates

**LUXEMBOURG**

*1995-04-03*

- BT1 developed countries
- \*BT1 western europe
- RT oecd

**LVR-15 REACTOR**

*1995-01-04*

*Nuclear Research Institute, Rez, Czech Republic.*

*UF czech wwr-s reactor*

*UF prague wwr-s reactor*

*UF wwr-c-prague reactor*

*UF wwr-s-rez reactor*

- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors
- \*BT1 zero power reactors

**LWBR TYPE REACTORS**

- \*BT1 breeder reactors

- \*BT1 thermal reactors

- \*BT1 water cooled reactors

- \*BT1 water moderated reactors

**LWGR TYPE REACTORS**

*1996-02-09*

*UF rbnk type reactors*

*UF* water cooled graphite moderated reactors

\*BT1 graphite moderated reactors

\*BT1 water cooled reactors

NT1 aps reactor

NT1 beloyarsk-1 reactor

NT1 beloyarsk-2 reactor

NT1 bilibin reactor

NT1 chernobylsk-1 reactor

NT1 chernobylsk-2 reactor

NT1 chernobylsk-3 reactor

NT1 chernobylsk-4 reactor

NT1 ignalina-1 reactor

NT1 ignalina-2 reactor

NT1 kursk-1 reactor

NT1 kursk-2 reactor

NT1 kursk-3 reactor

NT1 kursk-4 reactor

NT1 leningrad-1 reactor

NT1 leningrad-2 reactor

NT1 leningrad-3 reactor

NT1 leningrad-4 reactor

NT1 n-reactor

NT1 rpt reactor

NT1 smolensk-1 reactor

NT1 smolensk-2 reactor

NT1 smolensk-3 reactor

NT1 uwtr reactor

*RT* enriched uranium reactors

*RT* power reactors

*RT* thermal reactors

## LWOR TYPE REACTORS

*UF* water moderated organic cooled reactors

\*BT1 organic cooled reactors

\*BT1 water moderated reactors

*RT* power reactors

## *lwr type reactors*

*INIS: 2000-04-12; ETDE: 1983-03-07*

USE water cooled reactors

## LYAPUNOV METHOD

*INIS: 1976-09-06; ETDE: 1976-11-01*

*UF* liapunov method

BT1 calculation methods

*RT* differential equations

*RT* limit cycle

*RT* stability

## LYASES

Code number 4.

\*BT1 enzymes

NT1 carbon-carbon lyases

NT2 aldehyde-lyases

NT2 aldolases

NT2 carboxy-lyases

NT3 carboxylase

NT3 decarboxylases

NT3 ribulose diphosphate carboxylase

NT1 carbon-oxygen lyases

NT2 hyaluronidase

NT2 hydro-lyases

NT3 carbonic anhydrase

NT1 cyclases

NT1 dna methylases

*RT* aldehydes

*RT* carboxylation

*RT* decarboxylation

## *lyman alpha emission*

USE lyman lines

## *lyman alpha radiation*

USE lyman lines

## *lyman continuum*

USE lyman lines

## LYMAN LINES

*Includes all aspects of the transitions associated with Lyman lines.*

*UF* lyman alpha emission

*UF* lyman alpha radiation

*UF* lyman continuum

*UF* lyman series

*RT* hydrogen

*RT* spectra

## *lyman series*

USE lyman lines

## LYMANTRIA DISPAR

*UF* gypsy moth

\*BT1 moths

## LYMPH

\*BT1 body fluids

*RT* lymphatic system

## LYMPH NODES

BT1 lymphatic system

*RT* immune system diseases

*RT* lymph vessels

*RT* reticuloendothelial system

## LYMPH VESSELS

*UF* thoracic duct

BT1 lymphatic system

*RT* angiomas

*RT* lymph nodes

*RT* veins

## LYMPHATIC SYSTEM

*UF* appendix (vermiform)

*UF* bursa of fabricius

*UF* tonsils

NT1 lymph nodes

NT1 lymph vessels

NT1 thymus

*RT* cardiovascular system

*RT* leukemia

*RT* lungs

*RT* lymph

*RT* lymphocytes

*RT* lymphomas

*RT* organs

*RT* radiation syndrome

*RT* reticuloendothelial system

*RT* spleen

*RT* splenectomy

## *lymphoblastomas*

USE lymphomas

## LYMPHOCYTES

*UF* lymphoid cells

\*BT1 connective tissue cells

\*BT1 leukocytes

*RT* concanavalin a

*RT* histocompatibility complex

*RT* hybridomas

*RT* immune system diseases

*RT* immunity

*RT* lymphatic system

*RT* lymphokines

*RT* lymphomas

*RT* lymphopenia

*RT* natural killer cells

*RT* phytohemagglutinin

*RT* plasma cells

*RT* radiation syndrome

*RT* thymus

## *lymphogranuloma malignum*

USE hodgkins disease

## *lymphogranulomas*

USE lymphomas

## *lymphogranulomatosis*

USE hodgkins disease

## *lymphoid cells*

USE lymphocytes

## LYMPHOKINES

*INIS: 1999-09-08; ETDE: 1981-01-09*

*Biologically active molecules released from lymphocytes stimulated by antigens of mitogens.*

*UF* cytokines

*UF* interleukins

\*BT1 growth factors

NT1 interferon

*RT* complement

*RT* immunity

*RT* lymphocytes

## LYMPHOMAS

*UF* lymphoblastomas

*UF* lymphogranulomas

\*BT1 immune system diseases

\*BT1 neoplasms

NT1 hodgkins disease

NT1 lymphosarcomas

*RT* lymphatic system

*RT* lymphocytes

## LYMPHOPENIA

\*BT1 leukopenia

*RT* lymphocytes

## *lymphopoiesis*

USE leukopoiesis

## LYMPHOSARCOMAS

\*BT1 lymphomas

\*BT1 sarcomas

## *lynchburg pool reactor*

*2000-04-12*

USE lpr reactor

## LYNDOCHITE

*2000-04-12*

\*BT1 oxide minerals

\*BT1 thorium minerals

*RT* niobium oxides

*RT* thorium oxides

## LYNITE

*2000-04-12*

\*BT1 aluminium base alloys

\*BT1 copper alloys

\*BT1 iron alloys

\*BT1 zinc alloys

## LYOLUMINESCENCE

*INIS: 1977-09-06; ETDE: 1977-10-19*

\*BT1 chemical radiation effects

\*BT1 luminescence

*RT* dosimetry

## LYOPHILIZATION

*SF* freeze drying

*RT* drying

*RT* freezing

## LYSERGIC ACID

\*BT1 alkaloids

\*BT1 heterocyclic acids

\*BT1 indoles

## *lysholm engine*

*INIS: 2000-04-12; ETDE: 1984-07-20*

USE helical rotary screw expander

**LYSIMETERS**

INIS: 1986-07-09; ETDE: 1985-11-19

*Devices for measuring the percolation of water through soils and for determining the soluble constituents removed in the drainage.*

BT1 measuring instruments

**LYSINE**

UF *diaminocaproic acid*

\*BT1 amino acids

**LYSIS**

INIS: 1976-05-07; ETDE: 1975-11-11

NT1 electrolysis

NT2 anodization

NT2 electrodeposition

NT3 electroplating

NT2 electropolishing

NT2 electrorefining

NT2 photoelectrolysis

NT1 hemolysis

NT1 hydrolysis

NT2 acid hydrolysis

NT2 alkaline hydrolysis

NT2 autohydrolysis

NT2 enzymatic hydrolysis

NT2 saccharification

NT2 saponification

**LYSOSOMES**

1999-04-20

RT golgi complexes

RT subcellular distribution

**LYSOZYME**

Code number 3.2.1.17.

\*BT1 o-glycosyl hydrolases

RT mucoproteins

RT polysaccharides

**M CAPTURE**

INIS: 1979-09-18; ETDE: 1979-08-09

\*BT1 electron capture decay

**M CENTERS**

\*BT1 color centers

**M CODES**

BT1 computer codes

**M CONVERSION**

UF *m-conversion coefficient*

\*BT1 internal conversion

***m-conversion coefficient***

USE m conversion

***m-gas process***

INIS: 2000-04-12; ETDE: 1979-02-27

*Two vessel system to convert hydrocarbons to fuel gas in which steam gasification of feedstock occurs in one fluidized bed and regeneration of catalyst with combustion of coke and fuel in a separate fluidized bed. (Prior to January 1995, this was a valid ETDE descriptor.)*

SEE synthetic fuels

**M SHELL**

INIS: 1976-07-06; ETDE: 1976-08-24

*Atomic electron shells.*

UF *atomic shells (m)*

BT1 electronic structure

**M-THEORY**

2007-08-13

*Highly symmetric multi-dimensional theory of particles and their interactions; generalization of supergravity and related by weak-strong duality to each of the five known variations of string theory.*

UF *brane cosmology*

UF *brane models*

UF *brane theory*

SF *membrane theory*

NT1 string theory

NT2 superstring theory

RT cosmological models

RT general relativity theory

RT particle interactions

RT particle models

RT quantum mechanics

RT standard model

RT supergravity

RT supersymmetry

**M1-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

*Magnetic dipole transitions.*

UF *magnetic dipole transitions*

\*BT1 multipole transitions

**M2-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-05-01

*Magnetic quadrupole transitions.*

UF *magnetic quadrupole transitions*

\*BT1 multipole transitions

**M3-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

*Magnetic octupole transitions.*

UF *magnetic octupole transitions*

\*BT1 multipole transitions

**M4-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-05-01

*Magnetic hexadecapole transitions.*

UF *magnetic hexadecapole transitions*

\*BT1 multipole transitions

***ma 754***

INIS: 2000-04-12; ETDE: 1979-08-09

USE nickel base alloys

***ma 956***

INIS: 2000-04-12; ETDE: 1979-08-09

USE iron base alloys

**MAANSHAN-1 REACTOR**

1991-10-09

*Taiwan, China.*

\*BT1 pwr type reactors

***mac***

USE maximum acceptable contamination

***macaca***

USE macacus

**MACACUS**

UF *macaca*

UF *rhesus monkeys*

\*BT1 monkeys

**MACAO**

BT1 asia

***macedonia (the former yugoslav republic of)***

INIS: 1997-06-05; ETDE: 1998-04-10

USE the former yugoslav republic of macedonia

**MACEDONIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**MACERALS**

INIS: 1997-06-19; ETDE: 1977-06-24

*Petrologic units seen in microscopic sections of coal.*

NT1 exinite

NT1 inertinite

NT1 resinite

NT1 vitrinite

RT coal

RT lithotypes

RT petrology

**MACH NUMBER**

BT1 dimensionless numbers

BT1 velocity

RT aerodynamics

RT flow rate

RT shock waves

**MACH PRINCIPLE**

BT1 hypothesis

RT cosmology

RT general relativity theory

RT space-time

**MACH-ZEHNDER INTERFEROMETER**

\*BT1 interferometers

**MACHINE PARTS**

1996-04-18

UF *couplings (machine parts)*

NT1 brakes

NT2 water brakes

NT1 gears

NT1 mechanical shafts

NT1 mechanical transmissions

NT1 pistons

NT1 springs

RT castings

RT rotors

RT stators

**MACHINE TOOLS**

\*BT1 tools

NT1 grinding machines

NT1 lathes

NT1 milling machines

RT computer-aided manufacturing

RT drill bits

RT machining

RT presses

**MACHINE TRANSLATIONS**

INIS: 1992-08-18; ETDE: 1976-12-15

*Not for translation of computer programs, for which use TRANSLATORS.*

RT computers

RT dictionaries

RT expert systems

RT standardized terminology

**MACHINERY**

INIS: 1992-01-16; ETDE: 1979-12-10

BT1 equipment

NT1 pulverizers

NT1 refrigerating machinery

NT1 turbomachinery

NT2 turbines

NT3 gas turbines

NT4 coal-fired gas turbines

NT3 hydraulic turbines

NT4 pump turbines

NT3 radial inflow turbines

NT3 radial-outflow reaction turbines

NT3 rotary separator turbines

NT3 steam turbines

NT3 wind turbines

NT4 diffuser augmented turbines

NT4 horizontal axis turbines

NT4 vertical axis turbines

NT5 giromill turbines

NT5 tornado turbines

NT4 vortex augmented turbines

NT2 turbochargers

NT2 turbodrills

NT2 turbofan engines

NT2 turbogenerators

NT2 turbojet engines

**NT1** winding machines  
*RT* manufacturing

**MACHINING**

**NT1** chemical machining  
**NT2** electrochemical machining  
**NT1** cutting  
**NT1** electron beam machining  
**NT1** grinding  
**NT1** honing  
**NT1** laser beam machining  
**NT1** materials drilling  
**NT2** laser drilling  
**NT2** rock drilling  
**NT1** milling  
**NT1** spark machining  
**NT1** ultrasonic machining  
*RT* cutting fluids  
*RT* lathes  
*RT* machine tools  
*RT* materials working  
*RT* surface finishing  
*RT* tools

**MACKINTOSHITE**

2000-04-12  
\*BT1 silicate minerals  
\*BT1 thorium minerals  
\*BT1 uranium minerals  
*RT* thorium silicates  
*RT* uranium silicates

**MACROPHAGES**

\*BT1 connective tissue cells  
\*BT1 phagocytes  
*RT* phagocytosis  
*RT* reticuloendothelial system  
*RT* spleen

**MADAGASCAR**

BT1 africa  
BT1 developing countries  
BT1 islands  
**NT1** malagasy republic  
*RT* indian ocean

**MADARAS ROTORS**

*INIS: 2000-04-12; ETDE: 1978-10-23*  
BT1 rotors  
*RT* vertical axis turbines

**MAGELLANIC CLOUDS**

BT1 galaxies

**MAGIC NUCLEI**

*UF* magic numbers  
BT1 nuclei  
*RT* nuclear structure  
*RT* stable isotopes

**magic numbers**

USE magic nuclei

**MAGMA**

1996-04-29  
*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.*  
*RT* igneous rocks  
*RT* lava  
*RT* magmatism  
*RT* volcanism  
*RT* volcanoes

**MAGMA SYSTEMS**

1992-03-30  
*A geothermal system in which the dominant heat source is a reservoir of magma.*  
BT1 geothermal systems

**magmamax process**

*INIS: 2000-04-12; ETDE: 1977-11-29*  
USE binary-fluid systems

**MAGMATIC WATER**

2000-04-12  
*Water that exists in, or which is derived from, molten igneous rocks or magma.*  
\*BT1 ground water

**MAGMATISM**

*INIS: 1993-01-22; ETDE: 1978-07-05*  
*The development, movement, and solidification of magma to igneous rocks.*  
*RT* igneous rocks  
*RT* magma  
*RT* volcanism

**MAGNALIUM**

2000-04-12  
\*BT1 aluminium base alloys  
\*BT1 copper alloys  
\*BT1 magnesium alloys

**MAGNESIUM**

\*BT1 alkaline earth metals

**MAGNESIUM 19**

2004-09-14  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 magnesium isotopes  
\*BT1 milliseconds living radioisotopes

**MAGNESIUM 20**

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 magnesium isotopes  
\*BT1 milliseconds living radioisotopes

**MAGNESIUM 21**

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 magnesium isotopes  
\*BT1 milliseconds living radioisotopes

**MAGNESIUM 22**

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 magnesium isotopes  
\*BT1 seconds living radioisotopes

**MAGNESIUM 23**

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 magnesium isotopes  
\*BT1 seconds living radioisotopes

**MAGNESIUM 23 TARGET**

*INIS: 1976-04-03; ETDE: 1976-07-12*  
BT1 targets

**MAGNESIUM 24**

\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 magnesium isotopes  
\*BT1 stable isotopes  
*RT* magnesium 24 beams  
*RT* magnesium 24 reactions

**MAGNESIUM 24 BEAMS**

*INIS: 1976-01-27; ETDE: 1976-03-12*  
\*BT1 ion beams  
*RT* magnesium 24

**MAGNESIUM 24 REACTIONS**

\*BT1 heavy ion reactions  
*RT* magnesium 24

**MAGNESIUM 24 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**MAGNESIUM 25**

1995-01-04  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 magnesium isotopes  
\*BT1 stable isotopes  
*RT* magnesium 25 beams

**MAGNESIUM 25 BEAMS**

1995-01-04  
\*BT1 ion beams  
*RT* magnesium 25

**MAGNESIUM 25 REACTIONS**

*INIS: 1982-04-14; ETDE: 1981-08-04*  
\*BT1 heavy ion reactions

**MAGNESIUM 25 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**MAGNESIUM 26**

\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 magnesium isotopes  
\*BT1 stable isotopes

**MAGNESIUM 26 REACTIONS**

*INIS: 1982-06-09; ETDE: 1982-07-08*  
\*BT1 heavy ion reactions

**MAGNESIUM 26 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**MAGNESIUM 27**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 magnesium isotopes  
\*BT1 minutes living radioisotopes

**MAGNESIUM 27 TARGET**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
BT1 targets

**MAGNESIUM 28**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 hours living radioisotopes  
\*BT1 light nuclei  
\*BT1 magnesium isotopes  
*RT* radioisotope generators

**MAGNESIUM 28 DECAY RADIOISOTOPES**

*INIS: 1990-01-30; ETDE: 1990-02-13*  
\*BT1 heavy ion decay radioisotopes  
**NT1** plutonium 236  
**NT1** uranium 234  
*RT* magnesium 28 emission decay

**MAGNESIUM 28 EMISSION DECAY**

*INIS: 1990-01-30; ETDE: 1990-02-13*  
\*BT1 heavy ion emission decay  
*RT* magnesium 28 decay radioisotopes

**MAGNESIUM 29**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 magnesium isotopes  
\*BT1 seconds living radioisotopes

**MAGNESIUM 30**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 magnesium isotopes

\*BT1 milliseconds living radioisotopes

**MAGNESIUM 30 EMISSION DECAY**  
*INIS: 1989-10-27; ETDE: 1989-11-21*  
 \*BT1 heavy ion emission decay

**MAGNESIUM 31**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes  
 \*BT1 milliseconds living radioisotopes

**MAGNESIUM 32**  
*INIS: 1977-10-17; ETDE: 1977-08-09*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes

**MAGNESIUM 33**  
*INIS: 1980-07-24; ETDE: 1980-02-11*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes

**MAGNESIUM 34**  
*INIS: 1980-07-24; ETDE: 1980-02-11*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes

**MAGNESIUM 35**  
*INIS: 1989-09-14; ETDE: 1989-10-16*  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes

**MAGNESIUM 36**  
*INIS: 1989-09-14; ETDE: 1989-10-16*  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes

**MAGNESIUM 37**  
*2007-02-15*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes  
 \*BT1 nanoseconds living radioisotopes

**MAGNESIUM 38**  
*2006-12-20*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes

**MAGNESIUM 39**  
*2006-09-04*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes  
 \*BT1 nanoseconds living radioisotopes

**MAGNESIUM 40**  
*2005-01-19*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes

**MAGNESIUM ADDITIONS**  
*Alloys containing not more than 1% Mg are listed here.*  
 \*BT1 magnesium alloys  
 NT1 alloy-al95cu4  
 NT2 duralumin  
 NT1 bondur

NT1 zamak

**MAGNESIUM ALLOY-AZ31B**  
*2000-04-12*  
 \*BT1 aluminium alloys  
 \*BT1 magnesium base alloys  
 \*BT1 manganese additions  
 \*BT1 zinc alloys

**MAGNESIUM ALLOY-EK**  
*2000-04-12*  
 \*BT1 magnesium base alloys  
 \*BT1 rare earth alloys  
 \*BT1 zirconium additions

**MAGNESIUM ALLOY-EZ**  
*2000-04-12*  
 \*BT1 magnesium base alloys  
 \*BT1 rare earth alloys  
 \*BT1 zinc alloys  
 \*BT1 zirconium additions

**MAGNESIUM ALLOY-HK31A**  
*2000-04-12*  
 \*BT1 magnesium base alloys  
 \*BT1 thorium alloys  
 \*BT1 zirconium additions

**MAGNESIUM ALLOY-ZR**  
*2000-04-12*  
 \*BT1 chromium alloys  
 \*BT1 magnesium base alloys  
 \*BT1 zinc alloys

**MAGNESIUM ALLOYS**  
*Alloys containing more than 1% Mg.*  
 BT1 alloys  
 NT1 duranadium  
 NT1 magnalium  
 NT1 magnesium additions  
 NT2 alloy-al95cu4  
 NT3 duralumin  
 NT2 bondur  
 NT2 zamak  
 NT1 magnesium base alloys  
 NT2 magnesium alloy-az31b  
 NT2 magnesium alloy-ek  
 NT2 magnesium alloy-ez  
 NT2 magnesium alloy-hk31a  
 NT2 magnesium alloy-zr  
 NT2 magnox

**MAGNESIUM ARSENIDES**  
*INIS: 2000-04-12; ETDE: 1976-11-29*  
 \*BT1 arsenides  
 \*BT1 magnesium compounds

**MAGNESIUM BASE ALLOYS**  
 \*BT1 magnesium alloys  
 NT1 magnesium alloy-az31b  
 NT1 magnesium alloy-ek  
 NT1 magnesium alloy-ez  
 NT1 magnesium alloy-hk31a  
 NT1 magnesium alloy-zr  
 NT1 magnox

**MAGNESIUM BORIDES**  
 \*BT1 borides  
 \*BT1 magnesium compounds

**MAGNESIUM BROMIDES**  
 \*BT1 bromides  
 \*BT1 magnesium compounds

**MAGNESIUM CARBIDES**  
 \*BT1 carbides  
 \*BT1 magnesium compounds

**MAGNESIUM CARBONATES**  
*1996-06-26*  
 \*BT1 carbonates  
 \*BT1 magnesium compounds  
 RT ankerite

RT carbonate minerals  
 RT dolomite  
 RT limestone

**MAGNESIUM CHLORIDES**  
 \*BT1 chlorides  
 \*BT1 magnesium compounds  
 RT carnallite  
 RT halide minerals

**MAGNESIUM COMPLEXES**  
 \*BT1 alkaline earth metal complexes

**MAGNESIUM COMPOUNDS**  
*1997-06-17*  
 BT1 alkaline earth metal compounds  
 NT1 grignard reagents  
 NT1 magnesium arsenides  
 NT1 magnesium borides  
 NT1 magnesium bromides  
 NT1 magnesium carbides  
 NT1 magnesium carbonates  
 NT1 magnesium chlorides  
 NT1 magnesium fluorides  
 NT1 magnesium hydrides  
 NT1 magnesium hydroxides  
 NT1 magnesium iodides  
 NT1 magnesium nitrates  
 NT1 magnesium nitrides  
 NT1 magnesium oxides  
 NT1 magnesium perchlorates  
 NT1 magnesium phosphates  
 NT1 magnesium silicates  
 NT1 magnesium silicides  
 NT1 magnesium sulfates  
 NT1 magnesium sulfides  
 NT1 magnesium tellurides

**MAGNESIUM FLUORIDES**  
 \*BT1 fluorides  
 \*BT1 magnesium compounds

**MAGNESIUM HYDRIDES**  
 \*BT1 hydrides  
 \*BT1 magnesium compounds

**MAGNESIUM HYDROXIDES**  
 \*BT1 hydroxides  
 \*BT1 magnesium compounds

**MAGNESIUM IODIDES**  
 \*BT1 iodides  
 \*BT1 magnesium compounds

**MAGNESIUM IONS**  
 \*BT1 ions

**MAGNESIUM ISOTOPES**  
*1999-02-01*  
 \*BT1 alkaline earth isotopes  
 NT1 magnesium 19  
 NT1 magnesium 20  
 NT1 magnesium 21  
 NT1 magnesium 22  
 NT1 magnesium 23  
 NT1 magnesium 24  
 NT1 magnesium 25  
 NT1 magnesium 26  
 NT1 magnesium 27  
 NT1 magnesium 28  
 NT1 magnesium 29  
 NT1 magnesium 30  
 NT1 magnesium 31  
 NT1 magnesium 32  
 NT1 magnesium 33  
 NT1 magnesium 34  
 NT1 magnesium 35  
 NT1 magnesium 36  
 NT1 magnesium 37  
 NT1 magnesium 38  
 NT1 magnesium 39  
 NT1 magnesium 40



**MAGNESIUM NITRATES**

- \*BT1 magnesium compounds
- \*BT1 nitrates

**MAGNESIUM NITRIDES**

- \*BT1 magnesium compounds
- \*BT1 nitrides

**MAGNESIUM OXIDES**

- \*BT1 magnesium compounds
- \*BT1 oxides
- RT novacekite
- RT oxide minerals
- RT spinels

**MAGNESIUM PERCHLORATES**

- \*BT1 magnesium compounds
- \*BT1 perchlorates

**MAGNESIUM PHOSPHATES**

- \*BT1 magnesium compounds
- \*BT1 phosphates
- RT phosphate minerals
- RT saleeite

**MAGNESIUM SILICATES**

- \*BT1 magnesium compounds
- \*BT1 silicates
- RT enstatite
- RT lava
- RT olivine
- RT sepiolite
- RT serpentine
- RT silicate minerals
- RT sklodowskite
- RT talc
- RT vermiculite

**MAGNESIUM SILICIDES**

INIS: 1976-10-07; ETDE: 1975-10-28

- \*BT1 magnesium compounds
- \*BT1 silicides

**MAGNESIUM SLURRY SCRUBBING PROCESS**

INIS: 2000-04-12; ETDE: 1977-04-12

Process uses magnesium oxide to absorb sulfur dioxide in a wet scrubber. Aqueous slurry of magnesium sulfite formed in the scrubber is dried and calcined to regenerate magnesium oxide and produce an sulfur dioxide-rich gas stream for recovery of sulfuric acid or elemental sulfur.

- \*BT1 desulfurization
- RT scrubbing
- RT waste processing

**MAGNESIUM SULFATES**

- \*BT1 magnesium compounds
- \*BT1 sulfates
- RT lava
- RT polyhalite
- RT sulfate minerals

**MAGNESIUM SULFIDES**

- \*BT1 magnesium compounds
- \*BT1 sulfides

**MAGNESIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1975-09-11

- \*BT1 magnesium compounds
- \*BT1 tellurides

**MAGNET COILS**

- UF coils (magnetic)
- UF magnetic coils
- \*BT1 electric coils
- NT1 pulsed magnet coils
- RT magnets
- RT septum magnets
- RT solenoids
- RT superconducting coils

- RT superconducting magnets
- RT winding machines

**MAGNET CORES**

- UF cores (magnet)
- RT magnet pole pieces
- RT magnets

**MAGNET POLE PIECES**

- RT magnet cores
- RT magnets

**MAGNET STEEL-KS**

2000-04-12

- \*BT1 chromium steels
- \*BT1 cobalt alloys
- \*BT1 tungsten alloys

**MAGNETIC AMPLIFIERS**

- \*BT1 amplifiers

**MAGNETIC ANALYZERS**

- BT1 beam analyzers
- RT beam bending magnets
- RT electromagnetic lenses
- RT electrostatic septa
- RT septum magnets

**MAGNETIC BALANCES**

- UF balances (magnetic)
- BT1 measuring instruments
- RT magnetic susceptibility

**MAGNETIC BAYS**

- UF auroral substorms
- UF bays (magnetic)
- UF polar substorms
- RT disturbances
- RT magnetic storms

**MAGNETIC BEARINGS**

- BT1 bearings

**magnetic bremsstrahlung**

- USE synchrotron radiation

**MAGNETIC CIRCUITS**

- UF circuits (magnetic)
- RT electric coils

**MAGNETIC CIRCULAR DICHROISM**

INIS: 1994-06-27; ETDE: 1981-07-18

- BT1 dichroism
- RT structural chemical analysis

**magnetic coils**

- USE magnet coils

**MAGNETIC COMPRESSION**

- UF pulsar concept
- BT1 compression
- RT linus reactors
- RT magnetic fields
- RT pinch effect

**MAGNETIC CONFINEMENT**

INIS: 1996-04-16; ETDE: 1989-11-02

- \*BT1 plasma confinement
- NT1 h-mode plasma confinement
- NT1 l-mode plasma confinement
- RT electron rings
- RT ion rings
- RT magnetic field configurations
- RT rotational transform

**magnetic cooling**

INIS: 2000-04-12; ETDE: 1976-02-20

- USE adiabatic demagnetization

**MAGNETIC CORES**

For the storage of information in machine-readable form only.

- UF cores (magnetic)

- \*BT1 magnetic storage devices
- RT computers

**MAGNETIC DIPOLE MOMENTS**

- BT1 dipole moments
- BT1 magnetic moments
- RT nuclear magnetic moments

**magnetic dipole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28

- USE m1-transitions

**MAGNETIC DIPOLES**

- \*BT1 dipoles
- RT magnetic fields

**MAGNETIC DISKS**

- UF disks (magnetic)
- \*BT1 magnetic storage devices

**MAGNETIC DRUMS**

- \*BT1 magnetic storage devices

**MAGNETIC ENERGY STORAGE**

INIS: 1995-02-27; ETDE: 1977-01-28

- \*BT1 energy storage
- NT1 superconducting magnetic energy storage
- RT magnetic energy storage equipment
- RT superconducting magnets

**MAGNETIC ENERGY STORAGE EQUIPMENT**

INIS: 1995-02-27; ETDE: 1977-09-19

- \*BT1 energy storage systems
- BT1 equipment
- RT magnetic energy storage
- RT magnets
- RT peaking power plants
- RT superconducting coils
- RT superconducting magnets

**MAGNETIC FIELD CONFIGURATIONS**

For pinch configurations, use the narrower terms of PINCHEFFECT.

- NT1 closed configurations
- NT2 minimum average-b configurations
- NT2 multipolar configurations
- NT3 hexapolar configurations
- NT3 octupolar configurations
- NT3 quadrupolar configurations
- NT2 toroidal configuration
- NT1 magnetic field reversal
- NT1 magnetic field ripples
- NT1 magnetic islands
- NT1 magnetic surfaces
- NT2 mode rational surfaces
- NT1 open configurations
- NT2 baseball seam configurations
- NT2 cusped geometries
- NT2 magnetic mirror configurations
- NT3 tlm configurations
- NT2 minimum-b configurations
- RT confinement
- RT divertors
- RT helical configuration
- RT magnetic confinement
- RT magnetic fields
- RT magnetic reconnection
- RT pinch effect
- RT plasma
- RT reversed-field pinch devices
- RT rotational transform
- RT thermonuclear devices

**MAGNETIC FIELD REVERSAL**

INIS: 1981-08-31; ETDE: 1978-02-14

- BT1 magnetic field configurations
- RT magnetic fields
- RT magnetic reconnection
- RT reverse-field pinch

RT reversed-field mirrors

### MAGNETIC FIELD RIPPLES

INIS: 1981-07-06; ETDE: 1978-04-06

BT1 magnetic field configurations  
RT magnetic fields  
RT plasma

### MAGNETIC FIELDS

UF external magnetic fields  
UF fields (magnetic)  
UF magnetic force microscopy  
UF magnetolectricity  
UF photoelectromagnetic effect  
UF photomagnetolectric effect  
NT1 critical field  
NT1 force-free magnetic fields  
NT1 geomagnetic field  
NT1 interplanetary magnetic fields  
NT1 interstellar magnetic fields  
RT beta ratio  
RT biot-savart law  
RT crossed fields  
RT demagnetization  
RT electromagnetic fields  
RT end effects  
RT faraday method  
RT galvanomagnetic effect  
RT guiding-center approximation  
RT inhomogeneous fields  
RT langevin equation  
RT larmor radius  
RT levitation  
RT lorentz force  
RT magnetic compression  
RT magnetic dipoles  
RT magnetic field configurations  
RT magnetic field reversal  
RT magnetic field ripples  
RT magnetic flux  
RT magnetic islands  
RT magnetic mirror configurations  
RT magnetic mirrors  
RT magnetic properties  
RT magnetic reconnection  
RT magnetic rigidity  
RT magnetism  
RT magnetization  
RT magneto-thermal effects  
RT mirror ratio  
RT righi-leduc effect  
RT rotational transform  
RT shear  
RT shubnikov-de haas effect  
RT stoermer theory  
RT tlm configurations  
RT trapping  
RT zeeman effect

### MAGNETIC FILTERS

INIS: 1983-03-15; ETDE: 1979-10-23

Devices for the collection or removal of magnetic particles from a liquid or gaseous stream by magnetic fields.

BT1 filters  
RT filtration  
RT magnetic separators  
RT separation processes

### MAGNETIC FLUX

UF flux (magnetic)  
UF flux jumps  
UF flux pinning  
UF fluxoids  
UF foucault current  
UF magnetic vortices  
UF pinning force  
UF vortices (magnetic)  
RT aharonov-bohm effect  
RT flux density

RT flux quantization

RT magnetic fields  
RT skin effect  
RT superconductivity

### MAGNETIC FLUX COORDINATES

INIS: 1988-11-16; ETDE: 1988-12-05

A coordinate system for a toroidally confined plasma in which the radial coordinate is defined by the magnetic flux contained within a given magnetic flux surface.

\*BT1 curvilinear coordinates  
RT magnetic surfaces  
RT plasma radial profiles  
RT rotational transform

### magnetic force microscopy

INIS: 2002-09-11; ETDE: 2002-08-26

USE atomic force microscopy  
USE magnetic fields

### MAGNETIC FORCE WELDING

\*BT1 welding  
RT magnetic forming

### MAGNETIC FORMING

\*BT1 materials working  
RT magnetic force welding

### MAGNETIC GRADIENT

#### ACCELERATORS

INIS: 1982-10-29; ETDE: 1980-01-15

Type of macroparticle accelerator which uses a high-gradient magnetic field to accelerate a projectile. The magnetic field motion of the accelerator is synchronized with the projectile.

\*BT1 impact fusion drivers  
RT impact fusion

### magnetic hexadecapole transitions

INIS: 1978-02-23; ETDE: 1978-04-27

USE m4-transitions

### magnetic induction logging

INIS: 2000-04-12; ETDE: 1976-06-07

USE induction logging

### MAGNETIC INSULATION

Insulation of electric fields by means of magnetic fields; not for insulation of the magnetic fields themselves.

UF insulation (electrical, by magnetic fields)  
UF insulation (magnetic)  
RT confinement  
RT thermionic diodes

### MAGNETIC ISLANDS

INIS: 1981-07-06; ETDE: 1978-04-27

BT1 magnetic field configurations  
RT magnetic fields  
RT plasma

### MAGNETIC LENS

#### SPECTROMETERS

UF intermediate image spectrometer  
UF long-lens spectrometers  
UF short-lens spectrometers  
UF slatis-siegbahn spectrometers  
\*BT1 magnetic spectrometers

### magnetic levitated trains

INIS: 2000-04-12; ETDE: 1975-11-11

USE levitated trains

### magnetic liquids

INIS: 2000-04-12; ETDE: 1985-03-12

(Prior to March 1997 this was a valid ETDE descriptor.)  
USE liquids  
USE magnetic materials

### MAGNETIC MATERIALS

UF ferrofluids  
UF liquid magnets  
UF magnetic liquids  
UF materials (magnetic)  
BT1 materials  
NT1 antiferromagnetic materials  
NT1 ferrimagnetic materials  
NT2 ferrites  
NT1 ferromagnetic materials  
RT magnetism

### MAGNETIC MIRROR CONFIGURATIONS

\*BT1 open configurations  
NT1 tlm configurations  
RT magnetic fields  
RT magnetic mirrors  
RT mirror ratio  
RT plasma potential

### MAGNETIC MIRROR TYPE REACTORS

INIS: 1995-01-16; ETDE: 1976-09-15

UF field-reversed mirror reactors  
UF frm reactors (thermonuclear)  
BT1 thermonuclear reactors  
NT1 mars reactor  
NT1 minimars reactor  
NT1 tmr reactors  
RT magnetic mirrors  
RT tmx devices

### MAGNETIC MIRRORS

1996-07-23

Including systems with minimum-B configuration.

UF bsg devices  
UF dcx devices  
UF elmax devices  
UF ixion  
UF mfx device  
UF mirrors (magnetic)  
UF mtse devices  
UF pr-6 device  
UF pr-7 device  
UF pr devices  
UF vgl devices  
\*BT1 open plasma devices  
NT1 2x devices  
NT1 alic  
NT1 beta ii devices  
NT1 bumpy tori  
NT2 elmo bumpy torus  
NT1 burnout devices  
NT1 circe devices  
NT1 deca devices  
NT1 elmo devices  
NT2 elmo bumpy torus  
NT1 gol-3 device  
NT1 imp device  
NT1 mftf devices  
NT1 ogra  
NT1 phoenix devices  
NT1 pleiade device  
NT1 reversed-field mirrors  
NT1 tandem mirrors  
NT2 gamma 10 devices  
NT2 phaedrus mirror devices  
NT2 tara devices  
NT2 tmx devices  
RT magnetic fields  
RT magnetic mirror configurations  
RT magnetic mirror type reactors  
RT mirror ratio  
RT plasma potential  
RT q devices  
RT tlm configurations  
RT tmr reactors

**MAGNETIC MOMENTS**

- NT1 magnetic dipole moments
- NT1 nuclear magnetic moments
- RT fermi-segre formula
- RT gyromagnetic ratio
- RT magnetism
- RT magnetization
- RT quadrupole moments

**MAGNETIC MONOPOLES**

- UF *dirac monopoles*
- BT1 monopoles
- \*BT1 postulated particles

**magnetic octupole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28  
USE m3-transitions

**magnetic permeability**

- USE magnetic susceptibility

**MAGNETIC PROBES**

- BT1 probes
- RT magnetometers

**MAGNETIC PROPERTIES**

- BT1 physical properties
- NT1 magnetic susceptibility
- NT1 magnetostriction
- RT abrikosov theory
- RT coercive force
- RT domain structure
- RT electrical properties
- RT electromagnets
- RT magnetic fields
- RT magnetism
- RT magnetization
- RT magneto-optical effects
- RT muon spin relaxation
- RT permanent magnets

**MAGNETIC-PUMPING HEATING**

*Plasma heating by a series of periodic compressions and expansions in a limited region of the confinement volume by means of an RF modulation of the confining field.*

- \*BT1 high-frequency heating
- NT1 acoustic heating
- NT1 collisional heating
- NT1 transit-time magnetic pumping

**magnetic quadrupole transitions**

INIS: 1978-02-23; ETDE: 1978-04-27  
USE m2-transitions

**MAGNETIC RECONNECTION**

INIS: 1987-03-24; ETDE: 1986-07-25

*A topological rearrangement of the magnetic field lines surrounding a plasma.*

- RT magnetic field configurations
- RT magnetic field reversal
- RT magnetic fields
- RT reverse-field pinch
- RT sawtooth oscillations
- RT solar flares
- RT solar radio bursts
- RT solar x-ray bursts

**MAGNETIC REFRIGERATORS**

INIS: 1978-08-30; ETDE: 1978-06-14

- BT1 refrigerators
- RT cryogenics
- RT cryostats
- RT refrigeration

**MAGNETIC RESONANCE**

- UF *abmr method*
- BT1 resonance
- NT1 eldor
- NT1 electron spin resonance
- NT2 acoustic esr
- NT1 endor

- NT1 ferrimagnetic resonance
- NT1 ferromagnetic resonance
- NT1 nuclear magnetic resonance
- NT2 acoustic nmr
- NT2 td-nmr
- RT bloch equations
- RT muon spin relaxation

**MAGNETIC REYNOLDS NUMBER**

- \*BT1 reynolds number
- RT magnetohydrodynamics

**MAGNETIC RIGIDITY**

- RT magnetic fields
- RT stratosphere

**MAGNETIC SEMICONDUCTORS**

INIS: 1976-01-28; ETDE: 1976-03-12

- \*BT1 semiconductor materials
- RT ferromagnetic materials

**MAGNETIC SEPARATORS**

INIS: 1994-06-27; ETDE: 1977-12-22

(Until June 1994 this concept was indexed to MAGNETIC FILTERS.)

- BT1 concentrators
- RT magnetic filters
- RT separation processes

**MAGNETIC SHIELDING**

1998-10-22

(Until October, 1998, this concept was indexed by SHIELDING and MAGNETIC FIELDS.)

- UF *screening (magnetic fields)*
- BT1 shielding
- RT superconductors

**MAGNETIC SPECIFIC HEAT**

INIS: 2000-04-12; ETDE: 1979-07-18

*Magnetic contribution to specific heat.*

- \*BT1 specific heat
- RT electronic specific heat

**MAGNETIC SPECTROMETERS**

- \*BT1 spectrometers
- NT1 flat magnetic spectrometers
- NT1 magnetic lens spectrometers

**MAGNETIC STARS**

- UF *peculiar a-stars*
- BT1 stars
- RT pulsars
- RT stellar magnetospheres
- RT variable stars

**MAGNETIC STORAGE DEVICES**

- BT1 memory devices
- NT1 magnetic cores
- NT1 magnetic disks
- NT1 magnetic drums
- NT1 magnetic tapes
- NT2 video tapes

**MAGNETIC STORMS**

- UF *geomagnetic storms*
- RT disturbances
- RT earth magnetosphere
- RT forbush decrease
- RT ionospheric storms
- RT magnetic bays
- RT sudden commencements

**MAGNETIC SURFACES**

INIS: 1981-05-11; ETDE: 1978-04-27

- UF *flux surfaces*
- BT1 magnetic field configurations
- NT1 mode rational surfaces
- RT divertors
- RT equilibrium plasma
- RT magnetic flux coordinates
- RT plasma confinement
- RT plasma radial profiles

- RT rotational transform
- RT stellarators
- RT tokamak devices

**MAGNETIC SURVEYS**

1979-01-18

- \*BT1 geophysical surveys
- RT aerial monitoring
- RT aerial prospecting
- RT aerial surveying
- RT exploration
- RT geothermal exploration
- RT induction logging
- RT seismic surveys

**MAGNETIC SUSCEPTIBILITY**

- UF *magnetic permeability*
- UF *permeability (magnetic)*
- UF *photomagnetic effect*
- UF *susceptibility (magnetic)*
- \*BT1 magnetic properties
- RT curie point
- RT curie-weiss law
- RT magnetic balances
- RT neel temperature

**MAGNETIC TAPES**

- \*BT1 magnetic storage devices
- NT1 video tapes

**MAGNETIC TESTING**

- \*BT1 nondestructive testing

**magnetic traps (closed)**

- USE closed configurations

**magnetic traps (open)**

- USE open configurations

**magnetic vortices**

- USE magnetic flux

**magnetic well**

- USE minimum-b configurations

**MAGNETISM**

- NT1 antiferromagnetism
- NT2 mictomagnetism
- NT1 diamagnetism
- NT2 plasma diamagnetism
- NT1 electromagnetism
- NT1 ferrimagnetism
- NT1 ferromagnetism
- NT2 mictomagnetism
- NT1 nuclear magnetism
- NT1 paleomagnetism
- NT1 paramagnetism
- NT1 superparamagnetism
- NT1 thermomagnetism
- RT adiabatic demagnetization
- RT demagnetization
- RT magnetic fields
- RT magnetic materials
- RT magnetic moments
- RT magnetic properties
- RT magnetization
- RT magnets
- RT spin glass state

**MAGNETITE**

- \*BT1 iron ores
- \*BT1 oxide minerals
- RT black sands
- RT ferrite
- RT iron oxides
- RT spinels

**MAGNETIZATION**

1976-02-11

*Magnetic moment of unit volume of a material.*

- RT demagnetization

RT magnetic fields  
 RT magnetic moments  
 RT magnetic properties  
 RT magnetism

**MAGNETO-OPTICAL EFFECTS**

NT1 voigt effect  
 RT electro-optical effects  
 RT faraday effect  
 RT kerr effect  
 RT magnetic properties  
 RT optical properties  
 RT stark effect  
 RT zeeman effect

**MAGNETO-THERMAL EFFECTS**

INIS: 1975-10-23; ETDE: 1975-12-16  
 RT magnetic fields

**MAGNETOACOUSTIC WAVES**

UF magnetosonic waves  
 BT1 hydromagnetic waves  
 NT1 fast magnetoacoustic waves  
 RT magnetoacoustics

**MAGNETOACOUSTICS**

1999-01-20  
 BT1 acoustics  
 RT hydromagnetic waves  
 RT magnetoacoustic waves  
 RT sound waves

**magnetolectricity**

INIS: 1984-04-04; ETDE: 2002-03-28  
*Appearance of an electric field in certain substances when they are subjected to a static magnetic field.*  
 USE electrical properties  
 USE magnetic fields

**MAGNETOGASDYNAMICS**

\*BT1 fluid mechanics  
 RT gas flow  
 RT magnetohydrodynamics

**magnetohydrodynamic channels**

USE mhd channels

**magnetohydrodynamic generators**

USE mhd generators

**magnetohydrodynamic waves**

USE hydromagnetic waves

**MAGNETOHYDRODYNAMICS**

\*BT1 hydrodynamics  
 RT direct energy conversion  
 RT fluid flow  
 RT hartmann number  
 RT magnetic reynolds number  
 RT magnetogasdynamics  
 RT mercier criterion  
 RT mhd equilibrium  
 RT mhd generators  
 RT mhd power plants  
 RT plasma  
 RT plasma fluid equations

**MAGNETOINDUCTION SENSORS**

\*BT1 beam monitors  
 RT beam monitoring

**MAGNETOMETERS**

BT1 measuring instruments  
 NT1 fluxgate magnetometers  
 NT1 moving coil magnetometers  
 NT1 proton precession magnetometers  
 NT1 vibrating sample magnetometers  
 RT fluxmeters  
 RT magnetic probes

**MAGNETOPAUSE**

RT earth magnetosphere

RT international magnetospheric study  
 RT magnetosheath

**MAGNETOPLASMA COMPRESSORS**

BT1 compressors

**MAGNETORESISTANCE**

\*BT1 electric conductivity  
 RT shubnikov-de haas effect

**MAGNETOSHEATH**

RT earth magnetosphere  
 RT geomagnetic field  
 RT international magnetospheric study  
 RT magnetopause  
 RT solar wind

**magnetosonic waves**

USE magnetoacoustic waves

**magnetosphere (earth)**

1985-07-18  
 USE earth magnetosphere

**magnetospheres (planetary)**

INIS: 1985-07-18; ETDE: 2002-03-28  
 USE planetary magnetospheres

**magnetospheres (stellar)**

INIS: 1985-07-18; ETDE: 2002-03-28  
 USE stellar magnetospheres

**MAGNETOSTRICTION**

UF electromagnetostriction  
 \*BT1 magnetic properties  
 RT deformation

**MAGNETOTAIL**

1999-04-28  
 \*BT1 earth magnetosphere  
 RT geomagnetic field  
 RT international magnetospheric study  
 RT plasma sheet  
 RT plasmopause  
 RT plasmasphere

**MAGNETOTELLURIC SURVEYS**

INIS: 1979-02-21; ETDE: 1976-04-19  
*The measurement of natural electrical and magnetic fields of the earth.*  
 \*BT1 electromagnetic surveys

**MAGNETRONS**

\*BT1 microwave tubes  
 RT klystrons  
 RT rf systems

**MAGNETS**

1995-02-27  
 BT1 equipment  
 NT1 beam bending magnets  
 NT1 beam focusing magnets  
 NT1 electromagnets  
 NT2 superconducting magnets  
 NT1 kicker magnets  
 NT1 permanent magnets  
 NT1 septum magnets  
 NT1 wiggler magnets  
 RT demagnetization  
 RT electromagnet lenses  
 RT magnet coils  
 RT magnet cores  
 RT magnet pole pieces  
 RT magnetic energy storage equipment  
 RT magnetism

**magnex process**

INIS: 2000-04-12; ETDE: 1980-09-04  
 USE desulfurization

**MAGNOLIOPHYTA**

INIS: 1991-12-16; ETDE: 1988-12-20  
 UF angiosperms

BT1 plants  
 NT1 liliopsida  
 NT2 allium sativum  
 NT2 aloe  
 NT2 banana plants  
 NT2 buckwheat  
 NT2 cattails  
 NT2 coconut palms  
 NT2 gramineae  
 NT3 bamboo  
 NT3 cereals  
 NT4 barley  
 NT4 maize  
 NT4 millet  
 NT4 oats  
 NT4 rice  
 NT4 rye  
 NT4 sorghum  
 NT4 wheat  
 NT3 reeds  
 NT4 sugar cane  
 NT2 liliium  
 NT2 oil palms  
 NT2 onions  
 NT3 allium cepa  
 NT2 tradescantia  
 NT2 water hyacinths  
 NT1 magnoliopsida  
 NT2 arabidopsis  
 NT2 beech trees  
 NT2 beets  
 NT3 sugar beets  
 NT2 birches  
 NT2 brassica  
 NT3 kale  
 NT2 buffalo gourd  
 NT2 cacao trees  
 NT2 cacti  
 NT2 capsicum  
 NT2 carnations  
 NT2 carrots  
 NT2 cassava  
 NT2 chenopodiaceae  
 NT2 chestnut trees  
 NT2 citrus  
 NT2 coffee plants  
 NT2 corchorus  
 NT3 jute  
 NT2 cotton plants  
 NT2 crepis  
 NT2 cucumbers  
 NT2 digitalis  
 NT2 eucalyptuses  
 NT2 euphorbia  
 NT3 castor  
 NT3 milkweed  
 NT3 rubber trees  
 NT4 guayule  
 NT4 hevea  
 NT2 flax plants  
 NT2 jojoba  
 NT2 leguminosae  
 NT3 alfalfa  
 NT3 clover  
 NT3 glycine hispida  
 NT3 locust trees  
 NT3 mesquite  
 NT3 phaseolus  
 NT3 pisum  
 NT3 vicia  
 NT3 vigna  
 NT2 lettuce  
 NT2 mangroves  
 NT2 maples  
 NT2 marihuana  
 NT2 meadow foam  
 NT2 nicotiana  
 NT2 oaks  
 NT2 olive trees

NT2 papaver somniferum  
 NT2 pecan trees  
 NT2 poplars  
 NT3 aspens  
 NT3 cottonwoods  
 NT2 radishes  
 NT2 ranunculaceae  
 NT2 rosaceae  
 NT3 strawberries  
 NT2 sesamum indicum  
 NT2 solanum  
 NT3 solanum tuberosum  
 NT2 spinach  
 NT2 sunflowers  
 NT2 sweet gums  
 NT2 sycamores  
 NT2 tea plants  
 NT2 willows  
 NT2 yams

**MAGNOLIOPSIDA**

INIS: 1996-11-13; ETDE: 1988-12-20

(TUMBLEWEEDS and the UF+ terms below have been valid ETDE descriptors.)

UF *atropa belladonna*  
 UF *coleus*  
 UF *dicotyledons*  
 UF *rabbit brush*  
 UF *russian thistle*  
 UF *salsola kali*  
 UF *tumbleweeds*

\*BT1 magnoliophyta

NT1 arabidopsis

NT1 beech trees

NT1 beets

NT2 sugar beets

NT1 birches

NT1 brassica

NT2 kale

NT1 buffalo gourd

NT1 cacao trees

NT1 cacti

NT1 capsicum

NT1 carnations

NT1 carrots

NT1 cassava

NT1 chenopodiaceae

NT1 chestnut trees

NT1 citrus

NT1 coffee plants

NT1 corchorus

NT2 jute

NT1 cotton plants

NT1 crepis

NT1 cucumbers

NT1 digitalis

NT1 eucalyptuses

NT1 euphorbia

NT2 castor

NT2 milkweed

NT2 rubber trees

NT3 guayule

NT3 hevea

NT1 flax plants

NT1 jojoba

NT1 leguminosae

NT2 alfalfa

NT2 clover

NT2 glycine hispida

NT2 locust trees

NT2 mesquite

NT2 phaseolus

NT2 pisum

NT2 vicia

NT2 vigna

NT1 lettuce

NT1 mangroves

NT1 maples

NT1 marihuana

NT1 meadow foam

NT1 nicotiana

NT1 oaks

NT1 olive trees

NT1 papaver somniferum

NT1 pecan trees

NT1 poplars

NT2 aspens

NT2 cottonwoods

NT1 radishes

NT1 ranunculaceae

NT1 rosaceae

NT2 strawberries

NT1 sesamum indicum

NT1 solanum

NT2 solanum tuberosum

NT1 spinach

NT1 sunflowers

NT1 sweet gums

NT1 sycamores

NT1 tea plants

NT1 willows

NT1 yams

**MAGNONS**

BT1 quasi particles

RT spin waves

**MAGNOX**

\*BT1 magnesium base alloys

RT magnox type reactors

**MAGNOX TYPE REACTORS**

\*BT1 gcr type reactors

\*BT1 natural uranium reactors

\*BT1 power reactors

NT1 berkeley reactor

NT1 bradwell reactor

NT1 calder hall a-1 reactor

NT1 calder hall a-2 reactor

NT1 calder hall b-3 reactor

NT1 calder hall b-4 reactor

NT1 chapelcross-1 reactor

NT1 chapelcross-2 reactor

NT1 chapelcross-3 reactor

NT1 chapelcross-4 reactor

NT1 dungeness-a reactor

NT1 hinkley point-a reactor

NT1 hunterston-a reactor

NT1 latina reactor

NT1 oldbury-a reactor

NT1 sizewell-a reactor

NT1 tokai-mura reactor

NT1 trawsfynydd reactor

NT1 wylfa reactor

RT carbon dioxide cooled reactors

RT magnox

**mahogany trees**

USE trees

**MAHOGANY ZONE**

2000-04-12

\*BT1 colorado

\*BT1 green river formation

RT oil shales

**MAIN SEQUENCE STARS**

BT1 stars

NT1 carbon stars

NT1 sun

NT1 wolf-rayet stars

RT cno cycle

RT hydrogen burning

**MAINE**

\*BT1 usa

RT kennebec river

RT us east coast

**MAINE YANKEE REACTOR**

*Maine Yankee Atomic Power Co., Wiscasset, Maine, USA. Shut down in 1996.*

UF *atomic power company main yankee*

UF *yankee maine reactor*

\*BT1 pwr type reactors

**MAINTENANCE**

NT1 reactor maintenance

RT maintenance facilities

RT modifications

RT operation

RT outages

RT repair

**MAINTENANCE FACILITIES**

INIS: 1999-08-04; ETDE: 1981-01-09

UF *facilities (maintenance)*

UF *puget sound naval shipyard*

RT energy facilities

RT maintenance

RT nuclear facilities

RT storage facilities

RT terminal facilities

**mainz triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-03-28

USE triga-2-mainz reactor

**MAITLANDITE**

2000-04-12

\*BT1 silicate minerals

\*BT1 thorium minerals

RT thorium silicates

**MAIZE**

UF *corn (maize)*

UF *corn stover*

UF *zea mays*

\*BT1 cereals

RT zein

**maize oil**

USE corn oil

**MAJORANA THEORY**

RT binding energy

**maki parameter**

USE ginzburg-landau theory

**MALAGASY REPUBLIC**

INIS: 1992-06-04; ETDE: 1979-12-10

\*BT1 madagascar

**MALARIA**

\*BT1 parasitic diseases

RT hemic diseases

RT mosquitoes

RT plasmodium

**MALATHION**

\*BT1 carboxylic acid esters

\*BT1 insecticides

\*BT1 organic oxygen compounds

\*BT1 organic phosphorus compounds

\*BT1 thiols

**MALAWI**

BT1 africa

BT1 developing countries

**malaya**

USE malaysia

**MALAYSIA**

UF *federation of malaya*

UF *malaya*

BT1 asia

BT1 developing countries

**malaysian institute for nuclear energy research**

INIS: 2001-10-30; ETDE: 2002-03-28  
USE mint

**MALAYSIAN ORGANIZATIONS**

1984-12-04

- BT1 national organizations
- NT1 mint
- NT1 puspati

**MALE GENITALS**

- UF *genitals (male)*
- UF *seminal vesicles*
- \*BT1 organs
- NT1 prostate
- NT1 testes
- RT fertility
- RT gonads
- RT reproduction
- RT sex
- RT urogenital system diseases

**MALEIC ACID**

- UF *maleinic acid*
- \*BT1 dicarboxylic acids

**maleinic acid**

- USE maleic acid

**MALES**

- NT1 men
- RT animals
- RT sex
- RT sex dependence

**MALFORMATIONS**

- UF *abnormalities (developmental)*
- UF *hydrocephalus*
- UF *microcephaly*
- BT1 pathological changes
- NT1 congenital malformations
- NT2 downs syndrome

**MALI**

INIS: 1976-07-06; ETDE: 1976-08-24

- BT1 africa
- BT1 developing countries
- RT niger river

**MALIBU-1 REACTOR**

2000-04-12

Los Angeles Dept. of Water and Power, USA.

Canceled in 1972 before construction began.

UF *corral canyon nuclear power reactor-1*

- \*BT1 pwr type reactors

**MALIC ACID**

- UF *hydroxysuccinic acid*
- \*BT1 hydroxy acids

**malignancies**

INIS: 2000-04-12; ETDE: 1981-01-30

- USE neoplasms

**malnutrition**

- USE nutritional deficiency

**MALONIC ACID**

- \*BT1 dicarboxylic acids

**MALTA**

INIS: 1995-04-03; ETDE: 1979-12-10

- BT1 islands
- \*BT1 western europe
- RT mediterranean sea

**MALTOSE**

- \*BT1 disaccharides

**MAMMALS**

1996-11-13

(Prior to July 1996 PIKAS was a valid ETDE descriptor.)

UF *cony*

UF *manatees*

UF *pikas*

\*BT1 vertebrates

NT1 bats

NT1 bears

NT1 burros

NT1 cats

NT1 cetaceans

NT1 coyotes

NT1 dogs

NT2 beagles

NT1 foxes

NT1 horses

NT1 marsupials

NT1 otters

NT1 pinnipeds

NT1 primates

NT2 apes

NT2 man

NT3 children

NT4 infants

NT3 elderly people

NT3 men

NT3 women

NT2 monkeys

NT3 baboons

NT3 macacus

NT1 rabbits

NT1 rodents

NT2 gerbils

NT2 guinea pigs

NT2 hamsters

NT2 mice

NT3 transgenic mice

NT2 prairie dogs

NT2 rats

NT2 squirrels

NT2 voles

NT1 ruminants

NT2 buffalo

NT2 camels

NT2 cattle

NT3 calves

NT3 cows

NT2 deer

NT2 goats

NT2 llamas

NT2 sheep

NT1 shrews

NT1 swine

NT2 miniature swine

NT1 wolves

**MAMMARY GLANDS**

UF *breasts*

\*BT1 glands

RT chest

RT lactation

RT lth

RT milk

**MAN**

1997-06-17

All of mankind, of any age or of either sex.

\*BT1 primates

NT1 children

NT2 infants

NT1 elderly people

NT1 men

NT1 women

RT adolescents

RT adults

RT age groups

RT aged adults

RT anthropology

RT human populations

RT patients

RT personnel

RT reference man

RT sociology

**MAN-MACHINE SYSTEMS**

INIS: 1983-02-04; ETDE: 1982-06-07

People, machines and the processes by which they interact.

RT automation

RT communications

RT control rooms

RT control systems

RT cybernetics

RT display devices

RT human factors

RT human factors engineering

RT personnel

RT remote handling

RT systems analysis

**MANAGEMENT**

(From September 1982 till March 1997

OPERATIONS RESEARCH was a valid

ETDE descriptor. From June 1981 till January

1995 SENIOR EXECUTIVE SERVICE was a

valid ETDE descriptor.)

UF *administration*

SF *operations research*

SF *senior executive service*

NT1 data base management

NT1 energy management

NT1 knowledge management

NT2 knowledge preservation

NT1 load management

NT1 nuclear materials management

NT2 fuel management

NT1 personnel management

NT1 program management

NT2 contract management

NT1 property management

NT1 records management

NT1 resource management

NT1 waste management

NT2 nonradioactive waste management

NT3 nonradioactive waste disposal

NT2 radioactive waste management

NT3 radioactive waste disposal

NT3 radioactive waste processing

NT4 harvest process

NT3 radioactive waste storage

NT4 monitored retrievable storage

NT2 waste disposal

NT3 ground disposal

NT3 ground release

NT3 marine disposal

NT3 nonradioactive waste disposal

NT3 radioactive waste disposal

NT3 sanitary landfills

NT3 stack disposal

NT3 underground disposal

NT2 waste processing

NT3 activated sludge process

NT3 composting

NT3 fluidized bed refuse gasification

NT3 landgard pyrolysis system

NT3 lime-soda sinter process

NT3 materials recovery

NT3 molten salt waste gasification

process

NT3 occidental flash pyrolysis process

NT3 purox pyrolysis process

NT3 radioactive waste processing

NT4 harvest process

NT3 slagging pyrolysis process

NT3 steam stripping

NT3 syngas process

NT3 unisulf process

- NT3 wet oxidation processes
- NT2 waste retrieval
- NT2 waste storage
- NT3 radioactive waste storage
- NT4 monitored retrievable storage
- NT2 waste transportation
- RT accounting
- RT allocations
- RT audits
- RT delphi method
- RT forecasting
- RT labor relations
- RT organizational models
- RT personnel
- RT public relations
- RT rangelands
- RT regional cooperation
- RT schedules
- RT time delay

**manatees**

INIS: 1997-01-28; ETDE: 1979-03-29  
(Until October 1996 this was a valid descriptor.)

- USE aquatic organisms
- USE mammals

**manaurite 36x**

INIS: 1997-01-28; ETDE: 1979-08-09  
(Until October 1996 this was a valid descriptor.)

- USE iron base alloys

**manaurite 900**

INIS: 1997-01-28; ETDE: 1979-08-09  
(Until October 1996 this was a valid descriptor.)

- USE chromium alloys
- USE iron base alloys
- USE nickel alloys

**MANCHE PLANT**

INIS: 1993-04-19; ETDE: 1993-07-06  
\*BT1 radioactive waste facilities

**manchester liverpool university research reactor**

1993-11-09

- USE urr reactor

**MANDELIC ACID**

- UF *amygdalic acid*
- \*BT1 hydroxy acids

**MANDELSTAM REPRESENTATION**

1996-07-18

(Prior to March 1997 KHURI REPRESENTATION was a valid ETDE descriptor.)

- SF *khuri representation*
- RT dispersion relations
- RT s channel
- RT t channel
- RT u channel

**mandible**

INIS: 1984-04-04; ETDE: 2002-03-28  
USE jaw

**MANDREL OPERATION**

INIS: 2000-04-12; ETDE: 1979-11-23

- \*BT1 nuclear explosions
- \*BT1 underground explosions
- RT contained explosions

**MANGANATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 manganese compounds

- BT1 oxygen compounds
- RT manganese oxides

**MANGANESE**

1996-06-28

(Prior to July 1996 MANGANESE-BETA and MANGANESE-GAMMA were valid ETDE descriptors.)

- UF *manganese-beta*
- \*BT1 transition elements
- NT1 manganese-alpha

**MANGANESE 44**

- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 odd-odd nuclei

**MANGANESE 45**

2007-02-15

- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes

**MANGANESE 46**

- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 odd-odd nuclei

**MANGANESE 47**

- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 odd-even nuclei

**MANGANESE 48**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**MANGANESE 49**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**MANGANESE 50**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**MANGANESE 51**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**MANGANESE 51 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MANGANESE 52**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**MANGANESE 52 TARGET**

INIS: 1992-09-23; ETDE: 1979-06-06

- BT1 targets

**MANGANESE 53**

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**MANGANESE 53 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MANGANESE 54**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 odd-odd nuclei

**MANGANESE 54 TARGET**

INIS: 1979-09-18; ETDE: 1977-04-12

- BT1 targets

**MANGANESE 55**

- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**MANGANESE 55 REACTIONS**

1984-11-30

- \*BT1 heavy ion reactions

**MANGANESE 55 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MANGANESE 56**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 odd-odd nuclei

**MANGANESE 57**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**MANGANESE 58**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**MANGANESE 59**

INIS: 1976-11-08; ETDE: 1976-09-15

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**MANGANESE 60**

INIS: 1978-07-03; ETDE: 1978-04-06

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 manganese isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**MANGANESE 61**

1980-11-07

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**MANGANESE 62**

1982-06-09

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**MANGANESE 63**

INIS: 1986-01-21; ETDE: 1986-02-21

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**MANGANESE 64**

INIS: 1986-08-19; ETDE: 1986-09-05

- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 odd-odd nuclei

**MANGANESE 65**

INIS: 1986-08-19; ETDE: 1986-09-05

- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 odd-even nuclei

**MANGANESE 66**

2007-02-15

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**MANGANESE 67**

2007-02-15

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**MANGANESE 68**

2007-02-15

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**MANGANESE 69**

2007-02-15

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**MANGANESE ADDITIONS**

1996-11-13

Alloys containing not more than 1% Mn are listed here.

- \*BT1 manganese alloys
- NT1 alloy-al95cu4
- NT2 duralumin
- NT1 alloy-fe40ni35cr22
- NT1 alloy-fe53ni29co18
- NT2 kovar
- NT1 alloy-hs-31
- NT1 alloy-n28t3
- NT1 alloy-ni66cu32
- NT2 monel 400
- NT1 alloy-ni78cr21
- NT1 alloy-v-36
- NT1 ascology
- NT1 bondur
- NT1 discaloy
- NT1 duranickel
- NT1 duriron

NT1 magnesium alloy-az31b

NT1 miduale

NT1 ni-hard

NT1 steel-cr16ni9mo2

**MANGANESE ALLOYS**

1996-11-13

Alloys containing more than 1% Mn.

UF steel-40k14g18f

UF steel-40kh13n8g8

UF steel-cr13mn8ni8

\*BT1 transition element alloys

NT1 alloy-co43cr20fe18ni13w3

NT2 havar

NT1 alloy-mo-re-1

NT1 alloy-ni73cr20mn3nb3

NT2 inconel 82

NT1 alloy-ni94mn3al2

NT2 alumel

NT1 alloy-s-816

NT1 heusler alloys

NT1 manganese additions

NT2 alloy-al95cu4

NT3 duralumin

NT2 alloy-fe40ni35cr22

NT2 alloy-fe53ni29co18

NT3 kovar

NT2 alloy-hs-31

NT2 alloy-n28t3

NT2 alloy-ni66cu32

NT3 monel 400

NT2 alloy-ni78cr21

NT2 alloy-v-36

NT2 ascology

NT2 bondur

NT2 discaloy

NT2 duranickel

NT2 duriron

NT2 magnesium alloy-az31b

NT2 miduale

NT2 ni-hard

NT2 steel-cr16ni9mo2

NT1 manganese base alloys

NT1 manganese steels

NT1 manganin

NT1 stainless steel-zcnd17-13

NT1 steel-cr21mn9ni6

NT2 stainless steel-21-6-9

NT1 steel-mncumo

NT2 steel-astm-a537

NT1 steel-mnmo

NT2 steel-astm-a302

NT1 steel-mnnimo

NT2 steel-astm-a533-b

NT1 steel-mnnimov

**MANGANESE-ALPHA**

\*BT1 manganese

**MANGANESE ARSENIDES**

INIS: 1976-11-08; ETDE: 1976-12-16

\*BT1 arsenides

\*BT1 manganese compounds

**MANGANESE BASE ALLOYS**

\*BT1 manganese alloys

**manganese-beta**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE manganese

**MANGANESE BORIDES**

\*BT1 borides

\*BT1 manganese compounds

**MANGANESE BROMIDES**

\*BT1 bromides

\*BT1 manganese halides

**MANGANESE CARBIDES**

\*BT1 carbides

\*BT1 manganese compounds

**MANGANESE CARBONATES**

\*BT1 carbonates

\*BT1 manganese compounds

RT ankerite

RT carbonate minerals

**MANGANESE CHLORIDES**

\*BT1 chlorides

\*BT1 manganese halides

**MANGANESE COMPLEXES**

\*BT1 transition element complexes

**MANGANESE COMPOUNDS**

1996-07-18

BT1 transition element compounds

NT1 manganates

NT1 manganese arsenides

NT1 manganese borichlorates

NT1 manganese carbides

NT1 manganese carbonates

NT1 manganese halides

NT2 manganese bromides

NT2 manganese chlorides

NT2 manganese fluorides

NT2 manganese iodides

NT1 manganese hydrides

NT1 manganese hydroxides

NT1 manganese nitrates

NT1 manganese nitrides

NT1 manganese oxides

NT1 manganese perchlorates

NT1 manganese phosphates

NT1 manganese phosphides

NT1 manganese selenides

NT1 manganese silicates

NT1 manganese silicides

NT1 manganese sulfates

NT1 manganese sulfides

NT1 manganese tellurides

NT1 manganese tungstates

NT1 permanganates

**MANGANESE FLUORIDES**

\*BT1 fluorides

\*BT1 manganese halides

**MANGANESE HALIDES**

INIS: 1991-09-16; ETDE: 1975-07-29

\*BT1 halides

\*BT1 manganese compounds

NT1 manganese bromides

NT1 manganese chlorides

NT1 manganese fluorides

NT1 manganese iodides

**MANGANESE HYDRIDES**

INIS: 1977-10-17; ETDE: 1976-04-19

\*BT1 hydrides

\*BT1 manganese compounds

**MANGANESE HYDROXIDES**

\*BT1 hydroxides

\*BT1 manganese compounds

**MANGANESE IODIDES**

\*BT1 iodides

\*BT1 manganese halides

**MANGANESE IONS**

\*BT1 ions

**MANGANESE ISOTOPES**

1999-07-16

BT1 isotopes

NT1 manganese 44

NT1 manganese 45

NT1 manganese 46

NT1 manganese 47

NT1 manganese 48

NT1 manganese 49



NT1 manganese 50  
 NT1 manganese 51  
 NT1 manganese 52  
 NT1 manganese 53  
 NT1 manganese 54  
 NT1 manganese 55  
 NT1 manganese 56  
 NT1 manganese 57  
 NT1 manganese 58  
 NT1 manganese 59  
 NT1 manganese 60  
 NT1 manganese 61  
 NT1 manganese 62  
 NT1 manganese 63  
 NT1 manganese 64  
 NT1 manganese 65  
 NT1 manganese 66  
 NT1 manganese 67  
 NT1 manganese 68  
 NT1 manganese 69

**MANGANESE NITRATES**

\*BT1 manganese compounds  
 \*BT1 nitrates

**MANGANESE NITRIDES**

\*BT1 manganese compounds  
 \*BT1 nitrides

**manganese nodules**

USE manganese ores

**MANGANESE ORES**

UF manganese nodules  
 BT1 ores

**MANGANESE OXIDES**

\*BT1 manganese compounds  
 \*BT1 oxides  
 RT manganates  
 RT oxide minerals  
 RT permanganates  
 RT tantalite

**MANGANESE PERCHLORATES**

1996-07-18

(From July 1996 to November 2007  
 MANGANESE COMPOUNDS +  
 PERCHLORATES was used for this concept.)

\*BT1 manganese compounds  
 \*BT1 perchlorates

**MANGANESE PHOSPHATES**

\*BT1 manganese compounds  
 \*BT1 phosphates

**MANGANESE PHOSPHIDES**

INIS: 1980-11-07; ETDE: 1976-03-11

\*BT1 manganese compounds  
 \*BT1 phosphides

**MANGANESE SELENIDES**

INIS: 1979-04-27; ETDE: 1978-11-14

\*BT1 manganese compounds  
 \*BT1 selenides

**MANGANESE SILICATES**

\*BT1 manganese compounds  
 \*BT1 silicates  
 RT helvite  
 RT silicate minerals

**MANGANESE SILICIDES**

INIS: 1977-01-26; ETDE: 1976-07-07

\*BT1 manganese compounds  
 \*BT1 silicides

**MANGANESE STEELS**

INIS: 1996-11-13; ETDE: 1982-11-08

(STEEL-20M5 and STEEL VNT have been  
 valid ETDE descriptors.)

UF steel-20m5  
 UF steel vnt

UF vnt alloys

\*BT1 manganese alloys  
 \*BT1 steels

**MANGANESE SULFATES**

\*BT1 manganese compounds  
 \*BT1 sulfates

**MANGANESE SULFIDES**

\*BT1 manganese compounds  
 \*BT1 sulfides

**MANGANESE TELLURIDES**

1978-11-24

\*BT1 manganese compounds  
 \*BT1 tellurides

**MANGANESE TUNGSTATES**

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 manganese compounds  
 \*BT1 tungstates

**MANGANIN**

2000-04-12

\*BT1 copper base alloys  
 \*BT1 manganese alloys  
 \*BT1 nickel alloys

**MANGOES**

\*BT1 fruits

**MANGROVES**

INIS: 1992-01-09; ETDE: 1975-11-28

\*BT1 magnoliopsida  
 \*BT1 trees

**MANHATTAN PROJECT**

RT nuclear weapons

**maniac computers**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE computers

**manioc**

INIS: 2000-04-12; ETDE: 1978-11-14

USE cassava

**MANIPULATORS**

\*BT1 laboratory equipment  
 \*BT1 remote handling equipment  
 RT distance  
 RT hands  
 RT hot cells  
 RT hot labs  
 RT remote handling  
 RT shielding  
 RT underwater facilities  
 RT underwater operations

**MANITOBA**

\*BT1 canada  
 RT williston basin

**MANIVIER CANAL**

2004-12-15

UF canal manivier  
 \*BT1 inland waterways  
 RT bohunice radioactive waste  
 processing center  
 RT slovakia

**mannomustine**

USE alkylating agents

**MANNOSE**

\*BT1 aldehydes  
 \*BT1 hexoses

**manometers**

USE pressure gages

**MANPOWER**

INIS: 1996-05-15; ETDE: 1976-01-23

(Until May 1996 this concept was indexed by  
 PERSONNEL.)

SF labor  
 RT employment  
 RT occupations  
 RT personnel  
 RT training

**MANUALS**

Should be used to index all pieces of literature  
 which are manuals.

UF handbooks  
 BT1 document types  
 RT computer program documentation  
 RT education  
 RT information  
 RT recommendations

**manufactured buildings**

INIS: 2000-04-12; ETDE: 1982-01-07

USE prefabricated buildings

**MANUFACTURERS**

INIS: 1992-03-30; ETDE: 1978-11-14

RT commercialization  
 RT industry

**MANUFACTURING**

INIS: 1992-04-14; ETDE: 1976-10-13

Large-scale commercial fabrication; for  
 fabrication of single systems or components  
 use FABRICATION.

NT1 computer-aided manufacturing  
 RT fabrication  
 RT industry  
 RT machinery  
 RT production

**manufacturing facilities**

INIS: 2000-04-12; ETDE: 1981-01-09

USE industrial plants

**MANURES**

1991-12-11

\*BT1 agricultural wastes  
 \*BT1 biological wastes

**MANY-BODY PROBLEM**

1996-04-16

NT1 four-body problem  
 NT1 three-body problem  
 NT1 two-body problem  
 RT bethe-goldstone equation  
 RT density functional method  
 RT fsc approximation  
 RT goldstone diagrams  
 RT martin-schwinger theory  
 RT mean-field theory  
 RT molecular dynamics method  
 RT multiple scattering  
 RT percus-yevick equation  
 RT quasi particles  
 RT unitary pole approximation  
 RT van hove-hugenholtz theory  
 RT wick theorem

**MANY-DIMENSIONAL  
 CALCULATIONS**

More than four dimensions.

UF calculations (many dimensions)  
 UF five-dimensional calculations  
 RT four-dimensional calculations  
 RT mathematics  
 RT three-dimensional calculations  
 RT two-dimensional calculations

**MANY-NUCLEON TRANSFER REACTIONS**

*More than four nucleons transferred.*

\*BT1 multi-nucleon transfer reactions

**MAPLE REACTOR**

INIS: 2000-04-12; ETDE: 1986-01-03

*Multipurpose Applied Physics Lattice Experimental Reactor.*

\*BT1 enriched uranium reactors

\*BT1 heavy water moderated reactors

\*BT1 research and test reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**MAPLE TYPE REACTORS**

INIS: 1991-12-11; ETDE: 1992-06-22

*Multipurpose Applied Physics Lattice Experimental Reactor.*

(Prior to January 1992, this information was indexed by MAPLE REACTOR.)

UF *multipurpose applied physics lattice reactor*

\*BT1 enriched uranium reactors

\*BT1 heavy water moderated reactors

\*BT1 research and test reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**MAPLES**

INIS: 1992-01-09; ETDE: 1979-03-27

\*BT1 magnoliopsida

\*BT1 trees

**MAPPING**

INIS: 1992-03-09; ETDE: 1978-10-23

NT1 genetic mapping

NT1 topological mapping

NT2 conformal mapping

RT geometry

RT maps

**mapping (topological)**

USE topological mapping

**MAPPING FIBRATION**

UF *fibration (topological maps)*

RT differential topology

RT topological mapping

**MAPS**

RT diagrams

RT mapping

RT topography

**mar-250 alloy**

INIS: 1979-05-28; ETDE: 1979-03-05

USE maraging steels

**MAR-M509 ALLOYS**

INIS: 2000-04-12; ETDE: 1979-01-30

UF xc-224

UF xc-224fe

\*BT1 cobalt base alloys

**MARAGING STEELS**

INIS: 1979-05-28; ETDE: 1979-03-05

*Strong tough low-carbon martensitic steels which contain up to 25% nickel and in which hardening precipitates are formed by aging.*

UF *mar-250 alloy*

\*BT1 martensitic steels

RT martensite

**MARBLE**

INIS: 1976-02-05; ETDE: 1975-10-28

\*BT1 metamorphic rocks

RT calcium carbonates

**MARBLE HILL-1 REACTOR**

INIS: 1976-05-07; ETDE: 1975-11-28

*Public Service of Indiana, Madison, Indiana, USA. Canceled in 1985 before construction began.*

\*BT1 pwr type reactors

**MARBLE HILL-2 REACTOR**

INIS: 1976-05-07; ETDE: 1975-11-28

*Public Service of Indiana, Madison, Indiana, USA. Canceled in 1985 before construction began.*

\*BT1 pwr type reactors

**MARCASITE**

INIS: 1983-09-06; ETDE: 1979-03-28

\*BT1 sulfide minerals

RT iron sulfides

RT pyrite

**marcoule (cea)**

USE cea marcoule

**marcoule g-1 reactor**

USE g-1 reactor

**marcoule g-2 reactor**

USE g-2 reactor

**marcoule g-3 reactor**

USE g-3 reactor

**marcoule phenix reactor**

USE phenix reactor

**MARFE**

INIS: 1990-05-17; ETDE: 1990-06-01

*Multifaceted Asymmetric Radiation From the Edge is the result of a radiative thermal instability caused by light impurities in a peripheral plasma.*

RT plasma confinement

RT plasma instability

RT plasma sheath

RT stellarators

RT tokamak devices

**MARGINAL-COST PRICING**

INIS: 1999-12-07; ETDE: 1978-04-06

*Pricing based on addition to total cost incurred by the producer in providing one or more units.*

BT1 prices

RT electric power

RT incremental-cost pricing

RT load management

RT public utilities

RT rolled-in pricing

**margins**

INIS: 2000-04-12; ETDE: 1979-05-03

USE profits

**MARIA REACTOR**

*Institute of Nuclear Research, Swierk, Poland.*

UF *swierk maria reactor*

\*BT1 beryllium moderated reactors

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research and test reactors

\*BT1 thermal reactors

**MARIANA ISLANDS**

INIS: 1992-06-09; ETDE: 1979-12-17

\*BT1 trust territory of the pacific islands

NT1 guam

**mariculture**

INIS: 1991-09-18; ETDE: 1976-03-22

USE aquaculture

**MARIGNACITE**

2000-04-12

\*BT1 oxide minerals

RT niobium oxides

RT titanium oxides

RT zirconium oxides

**MARIHUANA**

INIS: 1991-12-16; ETDE: 1981-05-18

UF *marijuana*

\*BT1 herbs

\*BT1 magnoliopsida

RT hallucinogens

**marijuana**

INIS: 1991-12-16; ETDE: 1981-05-18

USE marihuana

**MARINAS**

INIS: 1992-06-12; ETDE: 1977-11-09

RT harbors

RT inland waterways

RT seas

**MARINE DISPOSAL**

UF *sea disposal*

\*BT1 waste disposal

RT boom clay

RT lcpmpdpw

RT oecd mcmsdrw

RT radioactive waste disposal

**marine ecosystems**

USE aquatic ecosystems

**marine insurance**

USE insurance

**marine pollution prevention, london convention**

INIS: 1984-06-21; ETDE: 2002-03-27

USE lcpmpdpw

**MARINE RISERS**

INIS: 2000-04-12; ETDE: 1977-04-12

*Pipes through which fluid travels in an upward direction. On offshore operations the term refers to large diameter pipes which extend from the blowout preventer stack on the sea floor to under the derrick floor of an offshore platform or to a large diameter pipe or flow line carrying gas or oil.*

UF *drilling risers*

UF *production risers*

\*BT1 pipes

RT offshore drilling

RT offshore platforms

**MARINE SURVEYS**

INIS: 2000-01-24; ETDE: 1976-11-17

UF *offshore surveys*

SF *surveys*

RT geochemical surveys

RT geophysical surveys

**marine vehicle accidents**

USE accidents

**MARINER SPACE PROBES**

\*BT1 space vehicles

**marit car liab conv bruss 1971**

USE bcoclmcnm

**maritime carriage liability conv brussels 1971**

2000-04-12

USE bcoclmcnm

**MARITIME LAWS**

1990-12-15

(Prior to December 1990, this descriptor was spelled MARITIME LAW.)

- BT1 laws
- RT high seas
- RT maritime transport
- RT nuclear ship visits
- RT territorial waters
- RT transport regulations

**MARITIME TRANSPORT**

INIS: 1976-12-08; ETDE: 1977-10-20

- BT1 transport
- RT maritime laws
- RT ships
- RT tanker ships

**MARIUS REACTOR**

CEA/CEN, Cadarache, St. Paul Lez Durance, France.

- UF cadarache reactor marius
- \*BT1 graphite moderated reactors
- \*BT1 natural uranium reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**mark v synchrotron**

USE mura synchrotron

**MARKARIAN GALAXIES**

With abnormally strong continuum in the ultraviolet spectral region.

- BT1 galaxies
- RT cosmic radio sources

**MARKET**

The chance to buy or sell.

- UF market shares
- NT1 spot market
- RT business
- RT cartels
- RT commercial sector
- RT commercialization
- RT cooperatives
- RT domestic supplies
- RT economics
- RT forecasting
- RT globalization
- RT gross domestic product
- RT gross national product
- RT marketers
- RT marketing
- RT monopolies
- RT resellers
- RT retailers
- RT small businesses
- RT supply and demand
- RT trade

**market life**

USE storage life

**market shares**

INIS: 2000-04-12; ETDE: 1979-05-03

- USE competition
- USE market

**MARKETERS**

INIS: 1992-04-03; ETDE: 1979-10-03

- UF buyers
- UF dealers
- UF nonbranded independent marketers
- UF refiner-marketers
- UF sellers
- NT1 resellers
- NT1 retailers
- NT2 gasoline service stations
- RT commercial sector
- RT competition

RT industry

RT market

**MARKETING**

INIS: 1992-03-05; ETDE: 1979-11-23

The aggregate of functions involved in moving goods from producer to customer.

- UF marketing research
- SF petroleum marketing practices act
- BT1 business
- RT advertising
- RT antitrust laws
- RT market
- RT retailers
- RT sales

**marketing research**

INIS: 1995-04-07; ETDE: 1978-01-23

Research conducted to establish the extent and location of a market or to analyze the cost of products and processes as compared with that of alternative or competitive products or processes.

USE marketing

**MARKOV PROCESS**

- BT1 stochastic processes
- RT chapman-kolmogorov equation
- RT failure mode analysis

**marlex**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE polyethylenes

**marlite**

INIS: 2000-04-12; ETDE: 1976-07-07

USE marlstone

**MARLSTONE**

INIS: 1984-04-04; ETDE: 1976-07-07

An indurated mixture of clay materials and calcium carbonate (rarely dolomite) usually containing from 25 to 75% clays.

- UF marlite
- RT calcium carbonates
- RT clays

**marmara sea**

1996-06-28

(Until June 1996 this was a valid descriptor.)

- USE seas
- USE turkey

**marmen effect**

1986-08-19

USE shape memory effect

**marmora sea**

INIS: 2000-04-12; ETDE: 1976-05-17

(Prior to July 1996 MARMARA SEA was a valid ETDE descriptor.)

- USE seas
- USE turkey

**MARS PLANET**

- BT1 planets

**MARS REACTOR**

INIS: 1986-03-04; ETDE: 1983-05-21

Mars is a major design study undertaken by Lawrence Livermore Laboratory of a 1200 mw(e) commercial tandem mirror reactor.

- UF mirror advanced reactor study
- \*BT1 magnetic mirror type reactors
- RT minimars reactor

**MARS SPACE PROBES**

INIS: 1978-02-23; ETDE: 1978-04-28

- \*BT1 space vehicles
- RT space flight

**marsh event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**MARSHAK BOUNDARY CONDITIONS**

- UF marshak conditions
- BT1 boundary conditions
- RT angular distribution
- RT milne problem
- RT spherical harmonics method

**marshak conditions**

- USE marshak boundary conditions
- USE martin-schwinger theory

**MARSHALL ISLANDS**

- \*BT1 micronesia
- NT1 bikini
- NT1 eniwetok
- RT nuclear explosions
- RT pacific ocean

**MARSHES**

INIS: 1992-05-08; ETDE: 1976-07-07

Transitional land-water areas, covered at least part of the time by estuarine or coastal waters and characterized by aquatic and grasslike vegetation.

- \*BT1 wetlands
- RT cattails
- RT surface waters
- RT swamps

**MARSUPIALS**

- UF kangaroos
- UF opossum
- UF potorous
- UF rat kangaroos
- \*BT1 mammals

**MARTENSITE**

1996-07-18

- \*BT1 carbon additions
- \*BT1 iron alloys
- RT austenite
- RT bainite
- RT cementite
- RT ferrite
- RT iron-alpha
- RT maraging steels
- RT martensitic steels
- RT steels

**MARTENSITIC STEELS**

INIS: 1983-11-09; ETDE: 1989-11-06

- \*BT1 steels
- NT1 maraging steels
- NT1 steel-cr10mo2
- NT1 steel-cr12
- NT2 stainless steel-403
- NT1 steel-cr12mov
- NT2 alloy-ht-9
- NT1 steel-cr13
- NT2 stainless steel-410
- NT1 steel-cr16ni
- NT1 steel-cr17cu4ni4nb-l
- NT2 stainless steel-17-4ph
- NT1 steel-cr17mo
- NT2 stainless steel-440
- NT1 steel-cr18
- RT martensite

**martin-puff-schwinger theory**

USE martin-schwinger theory

**MARTIN-SCHWINGER THEORY**

- UF marshak conditions
- UF martin-puff-schwinger theory
- RT many-body problem

**MARTINIQUE**

INIS: 1992-06-04; ETDE: 1980-08-12

\*BT1 lesser antilles

**marvel event**

1994-10-14

*A test made under PROJECT PLOWSHARE.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**MARVIKEN REACTOR**

\*BT1 bhwr type reactors

\*BT1 enriched uranium reactors

\*BT1 power reactors

**MARX GENERATORS**

INIS: 1986-01-21; ETDE: 1985-08-22

*Pulsed power devices to charge capacitors in parallel and discharge them quickly in series to produce high voltage, high power pulses used in light ion fusion and in some laser fusion systems.*

\*BT1 high-voltage pulse generators

\*BT1 power supplies

**MARY KATHLEEN MINES**

\*BT1 uranium mines

RT australia

**MARYLA REACTOR**

*Institute of Nuclear Research, Academy of Mining and Metallurgy, Cracow, Poland.*

UF polish government maryla reactor

UF swierk research reactor maryla

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 zero power reactors

**MARYLAND**

1997-06-17

UF douglas point site

\*BT1 usa

RT chesapeake bay

RT potomac river

RT potomac river basin

RT susquehanna river

RT us east coast

**maryland univ. reactor**

INIS: 1984-06-21; ETDE: 2002-03-28

USE umne-1 reactor

**MASERS**

*Microwave Amplification by Stimulated Emission of Radiation.*

SF stimulated emission devices

\*BT1 microwave amplifiers

RT gasers

RT lasers

RT microwave radiation

RT quantum electronics

RT radiation sources

RT stimulated emission

**MASKING**

INIS: 1992-02-21; ETDE: 1980-03-29

*Using a covering or coating on a semiconductor or other surface to provide a masked area for selective deposition or etching.*

SF resist

RT coatings

RT coverings

RT deposition

RT etching

RT screen printing

**masks**

USE respirators

**MASS**

NT1 critical mass

NT1 effective mass

NT1 missing mass

NT1 negative mass

NT1 rest mass

NT1 thermal mass

RT dalitz plot

RT equivalence principle

RT gravitational fields

RT linear momentum

RT mass difference

RT mass distribution

RT mass formulae

RT moment of inertia

RT weight

**mass (thermal)**

INIS: 2000-04-12; ETDE: 1978-07-05

USE thermal mass

**MASS BALANCE**

UF balance (mass)

RT confinement

RT plasma

RT plasma confinement

RT thermonuclear devices

RT thermonuclear reactors

**MASS DEFECT**

*Mass lost to binding energy.*

RT binding energy

RT nuclear forces

**MASS DIFFERENCE**

*Unexpected difference between particles of the same family, e.g., between pi plus and pi minus.*

BT1 particle properties

RT mass

**MASS DISTRIBUTION**

INIS: 1984-08-24; ETDE: 1984-10-24

*The way matter is distributed in space or throughout a body.*

\*BT1 spatial distribution

RT anisotropy

RT configuration

RT density

RT mass

RT shape

**MASS DOUBLETS**

1992-05-07

RT mass spectroscopy

**MASS FORMULAE**

NT1 okubo mass formula

RT mass

RT quantum field theory

**mass loss**

INIS: 1984-04-04; ETDE: 2002-03-28

SEE mass transfer

SEE stellar winds

**MASS NUMBER**

SF atomic weight

RT mass spectroscopy

RT weizsaecker formula

**mass radius (nuclear)**

USE nuclear radii

**mass radius (particle)**

USE particle radii

**MASS REARING**

BT1 animal breeding

BT1 rearing

RT diet

RT insects

RT nutrition

RT sterile male technique

**MASS RENORMALIZATION**

BT1 renormalization

**MASS RESOLUTION**

BT1 resolution

**MASS SPECTRA**

BT1 spectra

RT icp mass spectroscopy

**MASS SPECTROMETERS**

\*BT1 spectrometers

NT1 dynamic mass spectrometers

NT2 energy balance mass spectrometers

NT2 time-of-flight mass spectrometers

NT1 spark mass spectrometers

NT1 static mass spectrometers

RT dees

RT icp mass spectroscopy

RT mass spectroscopy

**mass spectrometry**

INIS: 1975-10-23; ETDE: 2002-03-28

USE mass spectroscopy

**MASS SPECTROSCOPY**

UF mass spectrometry

UF sims

BT1 spectroscopy

NT1 icp mass spectroscopy

NT1 resonance ionization mass

spectroscopy

RT mass doublets

RT mass number

RT mass spectrometers

**MASS TRANSFER**

UF transfer (mass)

SF mass loss

NT1 advection

NT1 convection

NT2 forced convection

NT2 natural convection

NT2 thermosyphon effect

NT1 environmental transport

NT2 long-range transport

NT2 radionuclide migration

NT2 runoff

RT air-biosphere interactions

RT atom transport

RT dialysis

RT diffusion

RT energy transfer

RT fluid flow

RT lewis number

RT membrane transport

RT osmosis

**MASS TRANSIT SYSTEMS**

INIS: 1992-09-09; ETDE: 1977-11-28

SF public transportation systems

BT1 transportation systems

RT rapid transit systems

RT transport

**MASSACHUSETTS**

1997-06-17

\*BT1 usa

RT connecticut river

RT connecticut river basin

RT gulf of maine

RT us east coast

**massachusetts institute of technology alcator**

1993-11-09

USE alcator device

**massachusetts institute of technology reactor**

1993-11-09

USE mitr reactor

**massey-mohr equation**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE equations

**massive transfer reactions**

INIS: 1985-01-18; ETDE: 2002-03-28

USE incomplete fusion reactions

**massive vector-meson model**

USE gluon model

**MASSLESS PARTICLES**

BT1 elementary particles

NT1 gravitons

NT1 neutrinos

NT2 antineutrinos

NT3 electron antineutrinos

NT3 muon antineutrinos

NT2 cosmic neutrinos

NT2 electron neutrinos

NT3 electron antineutrinos

NT2 muon neutrinos

NT3 muon antineutrinos

NT2 solar neutrinos

NT2 tau neutrinos

NT1 photons

NT2 cosmic photons

RT quantum field theory

RT special relativity theory

**MAST CELLS**UF *basophils (connective tissue)*

\*BT1 connective tissue cells

RT heparin

**MAST TOKAMAK**

INIS: 1999-07-26; ETDE: 1999-09-03

*Mega Amp Spherical Tokamak, Culham, UK.*

\*BT1 spheromak devices

**MASTER METERING**

INIS: 2000-04-12; ETDE: 1979-10-03

*Use of a single meter to record energy consumption - either gas or electricity - for an entire multifamily residence.*

BT1 metering

RT electric power

RT electric utilities

RT gas meters

RT gas utilities

RT measuring methods

RT natural gas

RT power meters

**MASTIGOPHORA**

INIS: 1993-07-15; ETDE: 1981-06-17

\*BT1 protozoa

NT1 dinoflagellate

NT1 euglena

NT1 trypanosoma

**MASURCA REACTOR**UF *cadarache maquette surgeneratic reactor*

\*BT1 air cooled reactors

\*BT1 enriched uranium reactors

\*BT1 fast reactors

\*BT1 plutonium reactors

\*BT1 zero power reactors

**masurium**

USE technetium

**masuyite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE oxide minerals

USE uranium minerals

**MATAGORDA BAY**

INIS: 2000-04-12; ETDE: 1979-11-23

\*BT1 bays

RT texas

**MATERIAL BALANCE**SF *input-output*

RT accounting

RT inventories

RT losses

RT material unaccounted for

RT materials

RT shipper-receiver differences

**MATERIAL BALANCE AREA**

RT safeguards

RT strategic points

**MATERIAL BUCKLING***A form of neutron density distribution in reactors. For buckling of materials, see DEFORMATION or FAILURES.*

BT1 buckling

**MATERIAL SUBSTITUTION**

INIS: 1993-02-18; ETDE: 1977-12-22

RT fuel substitution

RT interchangeability

**MATERIAL UNACCOUNTED FOR**UF *muf*

RT accounting

RT inventories

RT losses

RT material balance

RT nuclear materials management

RT safeguards

RT shipper-receiver differences

**MATERIALS**

1997-06-19

*Use of a more specific term is strongly recommended.*UF *molding materials*SF *renewable resources*

NT1 biological materials

NT2 biological wastes

NT3 feces

NT3 manures

NT3 sewage sludge

NT3 sweat

NT3 urine

NT2 body fluids

NT3 amniotic fluid

NT3 bile

NT3 blood

NT4 blood cells

NT5 blood platelets

NT5 erythrocytes

NT6 reticulocytes

NT5 leukocytes

NT6 basophils

NT6 eosinophils

NT6 lymphocytes

NT6 monocytes

NT6 natural killer cells

NT6 neutrophils

NT4 blood plasma

NT5 blood serum

NT3 cerebrospinal fluid

NT3 gastric acid

NT3 lymph

NT3 milk

NT3 saliva

NT3 sweat

NT3 urine

NT2 forest litter

NT2 plant sap

NT2 tissue extracts

NT1 building materials

NT2 adobe

NT2 bricks

NT2 cements

NT3 gypsum cements

NT3 portland cement

NT2 concrete blocks

NT2 concretes

NT3 prestressed concrete

NT3 reinforced concrete

NT1 carbonaceous materials

NT2 bituminous materials

NT3 kerogen

NT3 oil sands

NT3 oil shales

NT4 black shales

NT2 coal

NT3 black coal

NT4 anthracite

NT4 bituminous coal

NT3 brown coal

NT4 lignite

NT3 coal fines

NT3 sapropelic coal

NT4 boghead coal

NT5 torbanite

NT4 cannel coal

NT3 subbituminous coal

NT1 composite materials

NT2 cermets

NT3 td-nickel

NT3 td-nickel chromium

NT2 concrete-plastic composites

NT2 fiberglass

NT2 prestressed concrete

NT2 reinforced concrete

NT2 superconducting composites

NT2 wood-plastic composites

NT1 dielectric materials

NT2 antiferroelectric materials

NT2 electrets

NT2 ferroelectric materials

NT1 doped materials

NT1 environmental materials

NT1 fertile materials

NT1 fissionable materials

NT2 fissile materials

NT1 glazing materials

NT1 granular materials

NT1 hazardous materials

NT2 toxic materials

NT3 toxins

NT4 endotoxins

NT4 mycotoxins

NT5 aflatoxins

NT1 heat resistant materials

NT2 heat resisting alloys

NT3 alloy-co36cr22ni22w15fe3

NT4 haynes 188 alloy

NT3 alloy-co54cr20w15ni10

NT4 alloy-hs-25

NT4 haynes 25 alloy

NT3 alloy-co60cr30w4

NT4 stellite 6

NT3 alloy-d-979

NT3 alloy-fe44ni33cr21

NT4 incoloy 800h

NT3 alloy-fe46ni33cr21

NT4 incoloy 800

NT4 incoloy 802

NT3 alloy-mo99

NT4 alloy-tzm

NT4 alloy-zm-2a

NT3 alloy-n-10m

NT3 alloy-n-9m

- NT3** alloy-ni41fe40cr16nb3  
**NT4** inconel 706  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr  
**NT3** alloy-ni50mo32cr15si3  
**NT3** alloy-ni51cr48  
**NT4** inconel 671  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni54cr22co13mo9  
**NT4** inconel 617  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni60fe24cr16  
**NT4** nichrome  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni65cr25mo10  
**NT4** nimonic 86  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** alloy-ni77cr20ti2  
**NT3** alloy-nt25a5  
**NT3** alloy-ra-333  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** alloy-zr97nb3  
**NT3** alloy-zr98sn-2  
**NT4** zircaloy 2  
**NT3** alloy-zr98sn-4  
**NT4** zircaloy 4  
**NT3** enduro  
**NT3** incoloy 901  
**NT3** rene 80  
**NT3** rene 95  
**NT3** steel-cr12  
**NT4** stainless steel-403  
**NT3** steel-cr12moniv  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr13  
**NT4** stainless steel-410
- NT3** steel-cr13al  
**NT4** stainless steel-405  
**NT3** steel-cr15ni15motib  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr16ni  
**NT3** steel-cr16ni13monbv  
**NT3** steel-cr16ni15mo3nb  
**NT3** steel-cr16ni16monb  
**NT3** steel-cr16ni8mo2  
**NT4** stainless steel-16-8-2  
**NT3** steel-cr17cu4ni4nb-l  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr17ni12mo3  
**NT4** stainless steel-316  
**NT3** steel-cr17ni12mo3-l  
**NT4** stainless steel-316l  
**NT4** stainless steel-zend17-13  
**NT3** steel-cr17ni12monb  
**NT3** steel-cr17ni13  
**NT3** steel-cr17ni13mo2ti  
**NT3** steel-cr17ni13mo3ti  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr17ni7  
**NT4** stainless steel-301  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
**NT3** steel-cr18ni10-l  
**NT3** steel-cr18ni10ti  
**NT4** stainless steel-321  
**NT3** steel-cr18ni11  
**NT4** steel-x6crni1811  
**NT3** steel-cr18ni11nb  
**NT4** stainless steel-347  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT3** steel-cr18ni12  
**NT4** stainless steel-305  
**NT3** steel-cr18ni12ti  
**NT3** steel-cr18ni8  
**NT4** stainless steel-18-8  
**NT3** steel-cr18ni9  
**NT4** stainless steel-302  
**NT3** steel-cr18ni9ti  
**NT3** steel-cr19ni10  
**NT4** stainless steel-304  
**NT3** steel-cr19ni10-l  
**NT4** stainless steel-304l  
**NT3** steel-cr20ni11  
**NT4** stainless steel-308  
**NT3** steel-cr20ni11-l  
**NT4** stainless steel-308l  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-cr23ni14  
**NT4** stainless steel-309  
**NT4** stainless steel-309s  
**NT3** steel-cr23ni18  
**NT3** steel-cr25  
**NT4** stainless steel-446  
**NT3** steel-cr25ni20  
**NT4** alloy-hk-40  
**NT4** stainless steel-310  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-ni25cr20  
**NT4** stainless steel-20-25  
**NT3** steel-ni26cr15ti2movalb  
**NT4** alloy-a-286  
**NT3** steel-nimocr  
**NT3** tophet  
**NT3** tribaloy 800  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500
- NT1** ion exchange materials
- NT2** inorganic ion exchangers  
**NT3** bentonite  
**NT3** montmorillonite  
**NT3** mullite  
**NT3** vermiculite  
**NT3** zeolites  
**NT4** clinoptilolite  
**NT4** faujasite  
**NT4** heulandite  
**NT4** laumontite  
**NT4** mordenite  
**NT4** wairakite  
**NT2** liquid ion exchangers  
**NT2** mixed bed ion exchangers  
**NT2** organic ion exchangers  
**NT3** polystyrene-dvb  
**NT1** isotope enriched materials  
**NT2** enriched uranium  
**NT3** highly enriched uranium  
**NT3** moderately enriched uranium  
**NT3** slightly enriched uranium  
**NT1** laser materials  
**NT1** lunar materials  
**NT1** magnetic materials  
**NT2** antiferromagnetic materials  
**NT2** ferrimagnetic materials  
**NT3** ferrites  
**NT2** ferromagnetic materials  
**NT1** matrix materials  
**NT1** phase change materials  
**NT1** photochromic materials  
**NT1** porous materials  
**NT1** potting materials  
**NT1** radioactive materials  
**NT2** fission products  
**NT2** radioactive minerals  
**NT3** baddeleyite  
**NT3** corvusite  
**NT3** fersmite  
**NT3** kainosite  
**NT3** melanovanadite  
**NT3** pascoite  
**NT3** rutile  
**NT3** thorium minerals  
**NT4** allanite  
**NT4** bastnaesite  
**NT4** brannerite  
**NT4** ekanite  
**NT4** freyalite  
**NT4** hydrothorite  
**NT4** lodochnikite  
**NT4** lyndochite  
**NT4** mackintoshite  
**NT4** maitlandite  
**NT4** monazites  
**NT4** naegite  
**NT4** thorianite  
**NT4** thorite  
**NT5** jiningite  
**NT4** thucholite  
**NT4** uranothorite  
**NT3** uranium minerals  
**NT4** autunite  
**NT4** bassetite  
**NT4** becquerelite  
**NT4** billietite  
**NT4** brannerite  
**NT4** carnotite  
**NT4** clarkeite  
**NT4** coffinite  
**NT4** compregnacite  
**NT4** dewindtite  
**NT4** diderichite  
**NT4** djalmaitite  
**NT4** ekanite  
**NT4** ellsworthite  
**NT4** ferghanite  
**NT4** fourmarierite  
**NT4** gastunite

NT4 guilleminite  
 NT4 hallimondite  
 NT4 heinrichite  
 NT4 ianthinite  
 NT4 kahlerite  
 NT4 kirchheimerite  
 NT4 lodochnikite  
 NT4 mackintoshite  
 NT4 moctezumite  
 NT4 montroseite  
 NT4 naegite  
 NT4 natroautunite  
 NT4 ningyoite  
 NT4 novacekite  
 NT4 para-schoepite  
 NT4 ranquillite  
 NT4 rauvite  
 NT4 sabugalite  
 NT4 saleeite  
 NT4 schoepite  
 NT4 sengierite  
 NT4 sklodowskite  
 NT4 soddyite  
 NT4 thorianite  
 NT4 thucholite  
 NT4 torbernite  
 NT4 tyuyamunite  
 NT4 uraninites  
   NT5 broeggerite  
   NT5 pitchblende  
 NT4 uranium black  
 NT4 uranophane  
 NT4 uranorthorite  
 NT4 vesuvianite  
 NT2 radioactive wastes  
 NT3 alpha-bearing wastes  
 NT3 calcined wastes  
 NT3 high-level radioactive wastes  
 NT3 intermediate-level radioactive wastes  
 NT3 low-level radioactive wastes  
 NT3 radioactive effluents  
 NT3 waste forms  
 NT2 radiopharmaceuticals  
 NT1 raw materials  
 NT2 chemical feedstocks  
 NT1 reactor materials  
 NT2 nuclear fuels  
   NT3 alloy nuclear fuels  
   NT4 uranium-molybdenum fuels  
 NT3 denatured fuel  
 NT3 dispersion nuclear fuels  
 NT3 fuel solutions  
 NT3 liquid metal fuels  
 NT3 mixed carbide fuels  
 NT3 mixed nitride fuels  
 NT3 mixed oxide fuels  
 NT3 molten salt fuels  
 NT3 spent fuels  
 NT2 nuclear poisons  
   NT3 burnable poisons  
   NT3 fission poisons  
   NT3 soluble poisons  
 NT1 reinforced materials  
   NT2 reinforced concrete  
   NT2 reinforced plastics  
 NT1 sealing materials  
 NT1 semiconductor materials  
   NT2 magnetic semiconductors  
   NT2 n-type conductors  
   NT2 organic semiconductors  
   NT2 p-type conductors  
 NT1 shielding materials  
 NT1 sintered materials  
   NT2 sintered aluminium powders  
 NT1 stemming materials  
 NT1 surgical materials  
 NT1 synthetic materials  
   NT2 plastics

NT3 aramids  
 NT3 bakelite  
 NT3 formvar  
 NT3 lucite  
 NT3 mylar  
 NT3 nylon  
 NT3 perspex  
 NT3 plexiglas  
 NT3 polystyrene  
 NT3 polyurethanes  
   NT4 halthane  
 NT3 reinforced plastics  
 NT3 tedlar  
 NT3 teflon  
 NT3 thermoplastics  
 NT2 synthetic rocks  
 NT1 thermoelectric materials  
 NT1 thermonuclear reactor materials  
 NT1 tissue-equivalent materials  
 NT1 weatherstripping  
 RT interchangeability  
 RT material balance  
 RT materials drilling  
 RT materials handling  
 RT materials testing  
 RT materials working

**materials (antiferroelectric)**

2000-04-12

USE antiferroelectric materials

**materials (antiferromagnetic)**

2000-04-12

USE antiferromagnetic materials

**materials (biological)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE biological materials

**materials (building)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE building materials

**materials (composite)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE composite materials

**materials (dielectric)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE dielectric materials

**materials (doped)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE doped materials

**materials (environmental)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE environmental materials

**materials (ferrimagnetic)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE ferrimagnetic materials

**materials (ferroelectric)**

2000-04-12

USE ferroelectric materials

**materials (ferromagnetic)**

2000-04-12

USE ferromagnetic materials

**materials (lunar)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE lunar materials

**materials (magnetic)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE magnetic materials

**materials (porous)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE porous materials

**materials (reinforced)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE reinforced materials

**materials (semiconductor)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE semiconductor materials

**materials (shielding)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE shielding materials

**materials and minerals policy acts**

INIS: 2000-04-12; ETDE: 1984-06-29

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE laws

**MATERIALS DRILLING**

UF drilling (materials)

BT1 machining

NT1 laser drilling

NT1 rock drilling

RT drill bits

RT materials

RT subterrene penetrators

**MATERIALS HANDLING**

1997-06-05

(From May 1978 to March 1997 HOISTING was a valid ETDE descriptor. From August 1979 till March 1997 RETRIEVAL SYSTEMS was a valid ETDE descriptor.)

UF handling (materials)

UF hoisting

SF retrieval systems

NT1 lightering

NT1 loading

NT1 mine haulage

NT1 unloading

RT cargo

RT contact handling

RT conveyors

RT cranes

RT delivery

RT fuel feeding systems

RT grabs

RT haulage equipment

RT hoists

RT hydraulic transport

RT loaders

RT materials

RT materials handling equipment

RT pumping

RT recycling

RT remote handling

RT sample changers

RT solids flow

RT transport

RT waste retrieval

RT winches

**MATERIALS HANDLING EQUIPMENT**

INIS: 1983-09-06; ETDE: 1980-02-11

BT1 equipment

NT1 earthmoving equipment

NT2 bucket wheel excavators

NT2 draglines

NT1 grabs

NT1 haulage equipment

NT2 conveyors

NT3 belt conveyors

NT3 chain conveyors

NT2 loaders

NT3 cutter loaders

NT4 coal plows

NT4 continuous miners

NT4 heading machines

NT4 shearer loaders

NT2 mine cars  
 NT1 hoists  
 NT1 mixers  
 NT1 remote handling equipment  
 NT2 cranes  
 NT2 manipulators  
 NT1 shredders  
 NT1 winches  
 RT contact handling  
 RT materials handling  
 RT remote handling  
 RT robots  
 RT transport

## MATERIALS PROCESSING REACTORS

*For routine irradiation of production items to obtain desirable changes in properties.*

\*BT1 irradiation reactors

## MATERIALS RECOVERY

INIS: 1992-05-04; ETDE: 1975-09-11

SF recovery

\*BT1 waste processing

RT lime-soda sinter process  
 RT recycling  
 RT resource recovery facilities  
 RT resox process  
 RT syngas process

## MATERIALS TESTING

UF testing (materials)

BT1 testing

NT1 destructive testing

NT2 charpy test

NT1 mechanical tests

NT2 impact tests

NT3 charpy test

NT1 nondestructive testing

NT2 acoustic testing

NT3 acoustic emission testing

NT3 ultrasonic testing

NT2 electrical testing

NT2 electromagnetic testing

NT3 eddy current testing

NT2 industrial radiography

NT3 beta radiography

NT3 gamma radiography

NT4 gamma fuel scanning

NT3 neutron radiography

NT3 proton radiography

NT3 x-ray radiography

NT2 liquid penetrant inspection

NT2 magnetic testing

NT2 radiation attenuation testing

NT2 thermal testing

NT3 frost tests

RT ceramography

RT corrosion

RT emanation method

RT fmit linac

RT inspection

RT materials

RT metallography

RT photoelasticity

RT quality control

RT s-n diagram

RT stresses

### materials testing reactor idaho

INIS: 1993-11-09; ETDE: 2002-03-28

USE mtr reactor

### materials testing reactor japan

1993-11-09

USE jmtr reactor

## MATERIALS TESTING REACTORS

*For testing properties of materials or equipment in a radioactive environment.*

\*BT1 irradiation reactors

NT1 atr reactor  
 NT1 br-2 reactor  
 NT1 cp-2 reactor  
 NT1 dido reactor  
 NT1 dmtr reactor  
 NT1 dr-3 reactor  
 NT1 el-3 reactor  
 NT1 ewg-1 reactor  
 NT1 frg-2 reactor  
 NT1 fij-2 reactor  
 NT1 ga siwabessy reactor  
 NT1 gleep reactor  
 NT1 hanaro reactor  
 NT1 hector reactor  
 NT1 hfetr reactor  
 NT1 hfr reactor  
 NT1 hifar reactor  
 NT1 hwctr reactor  
 NT1 hwrr reactor  
 NT1 igr reactor  
 NT1 ivv-2m reactor  
 NT1 jmtr reactor  
 NT1 jrr-3 reactor  
 NT1 jrr-3m reactor  
 NT1 jules horowitz reactor  
 NT1 kstr reactor  
 NT1 lpr reactor  
 NT1 merlin reactor  
 NT1 mtr reactor  
 NT1 nbsr reactor  
 NT1 nrx reactor  
 NT1 osiris reactor  
 NT1 pbr reactor  
 NT1 pluto reactor  
 NT1 r-2 reactor  
 NT1 rv-1 reactor  
 NT1 sm-2 reactor  
 NT1 taiwan research reactor  
 NT1 triga-1-hanford reactor  
 NT1 wr-1 reactor  
 NT1 wwr-m-kiev reactor  
 NT1 wwr-m-leningrad reactor  
 NT1 zephyr reactor

## MATERIALS WORKING

*Covers metal and non-metal working.*

UF forming (materials)

UF working (materials)

BT1 fabrication

NT1 canning

NT1 cold working

NT2 shot peening

NT1 drawing

NT1 explosive forming

NT1 extrusion

NT2 coextrusion

NT1 forging

NT1 hot working

NT1 magnetic forming

NT1 pressing

NT2 cold pressing

NT2 hot pressing

NT1 rolling

NT1 swaging

NT1 thermomechanical treatments

RT casting

RT deformation

RT machining

RT materials

RT molding

## MATHEMATICAL EVOLUTION

2003-06-26

*Development of an algorithm, formula, analytic function, series expansion or mathematical model from a simple approach to a more advanced, complex, sophisticated form.*

BT1 evolution

RT algorithms

RT analytic functions  
 RT asymptotic solutions  
 RT functional analysis  
 RT mathematical models  
 RT series expansion

## MATHEMATICAL LOGIC

INIS: 1986-07-10; ETDE: 1975-11-11

UF logic (mathematics)

UF symbolic logic

NT1 algorithms

NT1 fuzzy logic

RT mathematical models

RT mathematical solutions

RT mathematics

RT system failure analysis

## MATHEMATICAL MANIFOLDS

1997-08-20

NT1 complex manifolds

NT1 convex manifolds

NT1 smooth manifolds

RT graph theory

RT mathematical space

RT mathematics

RT measure theory

RT topological mapping

RT topology

## MATHEMATICAL MODELS

1996-07-23

(From September 1982 till March 1997 OPERATIONS RESEARCH was a valid ETDE descriptor.)

UF models (mathematical)

UF thermal-nelson model

SF operations research

NT1 atomic models

NT2 thomas-fermi model

NT1 box models

NT1 climate models

NT1 cosmological models

NT2 inflationary universe

NT1 crystal models

NT2 heisenberg model

NT2 hubbard model

NT2 ising model

NT1 electron-promotion model

NT1 flow models

NT1 general circulation models

NT1 harmonic oscillator models

NT1 molecular models

NT2 thermodynamic molecular model

NT1 nuclear models

NT2 black nucleus model

NT2 brueckner model

NT2 cloudy crystal ball model

NT2 cluster model

NT2 coherent tube model

NT2 collective model

NT3 rotation-vibration model

NT2 cranking model

NT2 davydov-filipov model

NT2 droplet model

NT2 elliot model

NT2 evaporation model

NT3 weisskopf model

NT2 exciton model

NT2 fermi gas model

NT2 folding model

NT2 goldberger model

NT2 lane-thomas-wigner model

NT2 liquid drop model

NT2 nilsson-mottelson model

NT2 nuclear fireball model

NT2 order-disorder model

NT2 particle-core coupling model

NT2 particle-hole model

NT2 perey-buck model

NT2 quartet model



NT2 quasiparticle-phonon model  
 NT2 scission-point model  
 NT2 shell models  
   NT3 governor model  
   NT3 interacting boson model  
   NT3 multi-center shell model  
 NT2 single-particle model  
 NT2 spherical model  
 NT2 strong-absorption model  
 NT2 superfluid model  
 NT2 unified model  
 NT2 valency model  
 NT2 vibron model  
 NT2 vmi model  
 NT2 walecka model  
 NT2 weak-coupling model  
 NT1 optical models  
 NT1 particle models  
   NT2 coherent tube model  
   NT2 composite models  
     NT3 bootstrap model  
     NT3 cim model  
     NT3 quark model  
       NT4 bag model  
       NT4 color model  
       NT4 flavor model  
       NT4 string models  
       NT5 superstring models  
   NT2 correlated-particle models  
   NT2 diffraction models  
   NT2 dual absorption model  
   NT2 extended particle model  
     NT3 bag model  
     NT3 string models  
       NT4 superstring models  
   NT2 feynman gas model  
   NT2 fireball model  
   NT2 gluon model  
   NT2 hard collision models  
   NT2 higgs model  
   NT2 isobar model  
   NT2 jet model  
   NT2 lee model  
   NT2 linear absorption models  
   NT2 nova model  
   NT2 octet model  
   NT2 peripheral models  
     NT3 baryon-exchange models  
     NT3 boson-exchange models  
       NT4 obe model  
       NT5 ope model  
       NT6 electric born model  
     NT4 sigma model  
   NT3 multiperipheral model  
     NT4 cluster emission model  
     NT5 space-time model  
   NT2 strong-coupling model  
   NT2 tensor dominance model  
   NT2 thermodynamic model  
     NT3 hydrodynamic model  
   NT2 uncorrelated-particle model  
   NT2 unified gauge models  
     NT3 grand unified theory  
     NT4 standard model  
     NT3 weinberg-salam gauge model  
   NT2 van hove model  
   NT2 vector dominance model  
   NT2 veneziano model  
     NT3 dual resonance model  
 NT1 star models  
 NT1 statistical models  
   NT2 feynman gas model  
   NT2 thermodynamic model  
     NT3 hydrodynamic model  
 RT bifurcation  
 RT biological models  
 RT comparative evaluations  
 RT computer-aided design  
 RT computer calculations

RT dynamic programming  
 RT energy models  
 RT exact solutions  
 RT functional models  
 RT fuzzy logic  
 RT hypothesis  
 RT linear programming  
 RT mathematical evolution  
 RT mathematical logic  
 RT microcosms  
 RT mockup  
 RT nonlinear programming  
 RT parametric analysis  
 RT projection series  
 RT response functions  
 RT scaling laws  
 RT sensitivity analysis  
 RT simulation  
 RT structural models  
 RT time-series analysis  
 RT validation

**MATHEMATICAL OPERATORS**

UF operators (mathematical)  
 NT1 casimir operators  
 NT1 hermitian operators  
 NT1 laplacian  
 NT1 projection operators  
 NT1 quantum operators  
   NT2 angular momentum operators  
     NT3 orbital momentum operators  
     NT3 pauli spin operators  
   NT2 annihilation operators  
   NT2 commutators  
     NT3 current commutators  
     NT4 sigma terms  
   NT2 creation operators  
   NT2 dirac operators  
   NT2 field operators  
   NT2 hamiltonians  
   NT2 linear momentum operators  
   NT2 moshinsky transformation  
   NT2 position operators  
 NT1 superoperators  
 RT commutation relations  
 RT density matrix  
 RT digital frequency analysis  
 RT eigenvalues  
 RT eigenvectors  
 RT mathematics  
 RT quantum mechanics  
 RT transfer matrix method

**MATHEMATICAL SOLUTIONS**

INIS: 2003-06-19; ETDE: 2003-07-29  
 NT1 analytical solution  
 NT1 asymptotic solutions  
 NT1 exact solutions  
 NT1 numerical solution  
   NT2 collision probability method  
   NT2 extrapolation  
   NT2 finite difference method  
   NT2 finite element method  
   NT3 boundary element method  
   NT2 interpolation  
   NT2 maximum-likelihood fit  
   NT3 least square fit  
   NT2 runge-kutta method  
 RT algorithms  
 RT calculation methods  
 RT equations  
 RT mathematical logic  
 RT mathematics

**MATHEMATICAL SPACE**

BT1 space  
 NT1 anti de sitter space  
 NT1 banach space  
   NT2 hilbert space  
 NT1 de sitter space

NT1 hausdorff space  
 NT1 minkowski space  
 NT1 phase space  
 NT1 riemann space  
   NT2 euclidean space  
 RT chaos theory  
 RT differential geometry  
 RT fock representation  
 RT functional analysis  
 RT geodesics  
 RT graph theory  
 RT lobachevsky geometry  
 RT mathematical manifolds  
 RT mathematics  
 RT measure theory  
 RT metrics  
 RT space dependence  
 RT space-time

**MATHEMATICS**

NT1 algebra  
 NT1 chaos theory  
 NT1 differential calculus  
 NT1 functional analysis  
 NT1 geometry  
   NT2 differential geometry  
   NT2 lobachevsky geometry  
 NT1 global analysis  
 NT1 graph theory  
 NT1 group theory  
 NT1 integral calculus  
 NT1 measure theory  
 NT1 numerical analysis  
 NT1 prony method  
 NT1 set theory  
 NT1 statistics  
   NT2 game theory  
   NT2 kriging  
   NT2 multivariate analysis  
   NT2 regression analysis  
   NT2 time-series analysis  
 NT1 topology  
   NT2 differential topology  
 RT algorithms  
 RT anharmonic oscillators  
 RT bethe-tait method  
 RT boundary element method  
 RT canonical transformations  
 RT conformal mapping  
 RT convergence  
 RT coordinates  
 RT differential equations  
 RT eigenvectors  
 RT equations  
 RT extrapolation  
 RT extreme-value problems  
 RT factorization  
 RT finite difference method  
 RT finite element method  
 RT four-dimensional calculations  
 RT fourier analysis  
 RT functions  
 RT galerkin-petrov method  
 RT gamma function  
 RT geodesy  
 RT harmonic oscillators  
 RT integral equations  
 RT integral transformations  
 RT integrals  
 RT interpolation  
 RT iterative methods  
 RT many-dimensional calculations  
 RT mathematical logic  
 RT mathematical manifolds  
 RT mathematical operators  
 RT mathematical solutions  
 RT mathematical space  
 RT matrices  
 RT mesh generation

RT metrics  
 RT network analysis  
 RT newton method  
 RT nodal expansion method  
 RT nonlinear problems  
 RT one-dimensional calculations  
 RT perturbation theory  
 RT phase space  
 RT polynomials  
 RT power series  
 RT quasilinear problems  
 RT queues  
 RT regge calculus  
 RT runge-kutta method  
 RT saddle-point method  
 RT scalars  
 RT series expansion  
 RT spherical harmonics  
 RT spline functions  
 RT superconvergence relations  
 RT tensors  
 RT three-dimensional calculations  
 RT two-dimensional calculations  
 RT variational methods  
 RT vectors  
 RT weierstrass functions

**MATHIEU EQUATION**

\*BT1 differential equations

**MATING**

RT behavior  
 RT reproduction  
 RT sex

**MATRICES**

NT1 density matrix  
 NT1 g matrix  
 NT1 hermitian matrix  
 NT1 k matrix  
 NT1 kobayashi-maskawa matrix  
 NT1 nuclear matrix  
 NT1 r matrix  
 NT1 s matrix  
 RT mathematics  
 RT matrix elements  
 RT metrics  
 RT secular equation

**MATRIX ELEMENTS**

RT brillouin theorem  
 RT matrices

**MATRIX ISOLATION**

INIS: 1978-08-30; ETDE: 1978-10-19  
 Method for investigating chemical, physical, spectroscopic and other properties of reactive species of atoms or molecules while trapped in matrices at low temperatures.  
 RT atoms  
 RT clathrates  
 RT molecular structure  
 RT molecules  
 RT spectroscopy

**MATRIX MATERIALS**

UF electrolyte tiles  
 BT1 materials  
 RT fuel cells  
 RT fuel elements  
 RT graphite  
 RT reactor materials  
 RT resins

**MATSUKAWA GEOTHERMAL****FIELD**

2000-04-12

BT1 geothermal fields  
 RT hachimantai  
 RT japan  
 RT vapor-dominated systems

**MATTER**

NT1 antimatter  
 NT2 antinuclei  
 NT3 antideuterons  
 NT3 antiprotons  
 NT3 antitritons  
 NT2 antiparticles  
 NT3 antibaryons  
 NT4 antihyperons  
 NT5 antilambda particles  
 NT5 antiomega particles  
 NT5 antisigma particles  
 NT5 antixi particles  
 NT4 antinucleons  
 NT5 antineutrons  
 NT5 antiprotons  
 NT3 antikaons  
 NT4 antikaons neutral  
 NT3 antileptons  
 NT4 antineutrinos  
 NT5 electron antineutrinos  
 NT5 muon antineutrinos  
 NT4 muons plus  
 NT4 positrons  
 NT5 cosmic positrons  
 NT3 antimesons  
 NT4 pseudoscalar antimesons  
 NT5 anti-b neutral mesons  
 NT5 anti-d neutral mesons  
 NT3 antiquarks  
 NT4 b antiquarks  
 NT4 c antiquarks  
 NT4 d antiquarks  
 NT4 s antiquarks  
 NT4 t antiquarks  
 NT4 u antiquarks

NT1 nonluminous matter  
 NT1 nuclear matter  
 NT1 organic matter  
 NT2 kerogen  
 NT2 peat  
 NT1 quark matter  
 NT1 volatile matter  
 RT ambiplasma  
 RT cosmology  
 RT rheology

**MATTHIESSEN RULE**

RT electric conductivity  
 RT thermal conductivity

**MATURATION**

INIS: 2000-07-24; ETDE: 1977-08-09  
 UF thermal alteration  
 RT petroleum

**MAURITANIA**

BT1 africa  
 BT1 arab countries  
 BT1 developing countries

**MAURITIUS**

INIS: 1992-06-04; ETDE: 1981-05-18  
 BT1 developing countries  
 BT1 islands  
 RT indian ocean

**max-planck-institut fuer plasmaphysik**

INIS: 1993-11-09; ETDE: 2002-03-28  
 USE ipp garching

**MAXIMUM ACCEPTABLE CONTAMINATION**

UF mac  
 \*BT1 contamination regulations  
 \*BT1 safety standards  
 RT contamination

**MAXIMUM CREDIBLE ACCIDENT**

UF mca

\*BT1 design basis accidents  
 RT health hazards  
 RT reactor safety

**MAXIMUM INHALATION QUANTITY**

UF miq  
 \*BT1 safety standards  
 RT inhalation  
 RT radioactivity

**MAXIMUM-LIKELIHOOD FIT**

\*BT1 numerical solution  
 NT1 least square fit  
 RT probability  
 RT statistics

**MAXIMUM PERMISSIBLE ACTIVITY**

UF mpa  
 \*BT1 safety standards  
 RT activity levels  
 RT radioactivity

**MAXIMUM PERMISSIBLE BODY BURDEN**

UF mpbb  
 \*BT1 safety standards  
 RT body burden  
 RT radioactivity  
 RT retention

**MAXIMUM PERMISSIBLE CONCENTRATION**

UF mpc  
 \*BT1 safety standards

**MAXIMUM PERMISSIBLE DOSE**

UF mpd  
 \*BT1 safety standards  
 RT dose limits  
 RT maximum permissible exposure  
 RT radiation doses

**MAXIMUM PERMISSIBLE EXPOSURE**

UF mpe  
 \*BT1 safety standards  
 RT integral doses  
 RT maximum permissible dose  
 RT radiation doses

**MAXIMUM PERMISSIBLE INTAKE**

UF mpi  
 \*BT1 safety standards  
 RT intake  
 RT radioactivity

**MAXIMUM PERMISSIBLE LEVEL**

UF mpl  
 \*BT1 safety standards  
 RT radioactivity

**maxwell-boltzmann distribution**

USE boltzmann statistics

**maxwell-boltzmann equation**

ETDE: 2002-03-28  
 USE boltzmann equation

**maxwell-boltzmann statistics**

USE boltzmann statistics

**maxwell-boltzmann system**

INIS: 2000-04-12; ETDE: 1995-09-01  
 SEE boltzmann-vlasov equation

**maxwell distribution**

USE boltzmann statistics

**MAXWELL EQUATIONS**

\*BT1 partial differential equations  
 RT born-infeld theory

RT electrodynamics  
 RT electromagnetic fields  
 RT field equations  
 RT poynting theorem

**maxwell statistics**

USE boltzmann statistics

**maxwell velocity distribution**

USE boltzmann statistics

**mayaguez puerto rico l-77 reactor**

1993-11-09

USE prnc-l-77 reactor

**mayaguez puerto rico pool reactor**

2000-04-12

USE prpr reactor

**MAYAK PLANT**

1996-06-26

BT1 nuclear facilities  
 RT fuel reprocessing plants  
 RT russian federation

**mayflies**

INIS: 1993-07-14; ETDE: 1984-02-21

USE ephemeroptera

**mbe**

INIS: 1994-06-27; ETDE: 1982-10-20

USE molecular beam epitaxy

**MBP**

INIS: 1988-08-02; ETDE: 1982-10-05

UF monobutyl phosphate  
 \*BT1 butyl phosphates

**MC GUIRE-1 REACTOR**

Duke Energy Co., Huntersville, North Carolina, USA.

UF w. b. mc guire-1 reactor  
 \*BT1 pwr type reactors

**MC GUIRE-2 REACTOR**

Duke Energy Co., Huntersville, North Carolina, USA.

UF w. b. mc guire-2 reactor  
 \*BT1 pwr type reactors

**mc master university nuclear reactor**

1993-11-09

USE mnr reactor

**mca**

USE maximum credible accident

**mcdowell-wellman process**

INIS: 2000-04-12; ETDE: 1978-04-27

Gasification process in which the gasifier has a continuous automatic gravity coal feeding system, a revolving grate, and an elevated ash pit. The gas-making chamber is completely water-jacketed. The inner wall is made of one-inch thick steel plate and requires no brick lining. Waste heat in the water jacket generates the required steam.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**MCGILL SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

**mcmurdo sound medium power plant**

3a

1993-11-09

USE pm-3a reactor

**mcpp**

INIS: 2000-04-12; ETDE: 1985-05-31

SEE dual-purpose power plants

**MDPA**

UF monododecylphosphoric acid  
 BT1 chelating agents  
 \*BT1 organic acids  
 \*BT1 phosphoric acid esters

**mea (mercaptoethylamine)**

ETDE: 2005-02-08

(Prior to January 2005 MEA was a valid descriptor.)

USE cysteamine

**MEA LINAC**

INIS: 1976-10-07; ETDE: 1976-11-01

500 MeV linac at NIKHEF, Amsterdam.

\*BT1 linear accelerators

**MEADOW FOAM**

INIS: 1991-12-16; ETDE: 1982-03-11

UF limnanthes alba  
 \*BT1 herbs  
 \*BT1 magnoliopsida  
 RT hydrocarbons  
 RT lubricating oils

**MEAN-FIELD THEORY**

INIS: 1984-08-24; ETDE: 1984-02-10

An approach for quantum-mechanical many-body problems by definition of a mean field which is derived from the interactions of single bodies.

RT many-body problem  
 RT self-consistent field  
 RT statistical mechanics

**MEAN FREE PATH**

RT anomalous  
 RT cross sections  
 RT diffusion  
 RT geiger-nuttall law

**mean life**

USE lifetime

**mean radiant temperature**

2004-06-08

Parameter used in description of thermal comfort of building occupants; use one or more of the following descriptors.

SEE blackbody radiation  
 SEE thermal comfort  
 SEE thermodynamic properties

**MEASLES**

INIS: 1976-06-23; ETDE: 1976-08-24

UF german measles  
 UF rubeola  
 \*BT1 viral diseases  
 RT measles virus

**MEASLES VIRUS**

INIS: 1976-06-23; ETDE: 1976-08-24

UF rubella virus  
 UF rubeola virus  
 \*BT1 viruses  
 RT measles

**MEASURE THEORY**

Relates to the property of sigma algebras or Borel fields referred to as measure.

BT1 mathematics  
 RT graph theory  
 RT mathematical manifolds  
 RT mathematical space  
 RT metrics  
 RT periodicity

**measured values**

2000-03-28

USE data

**measurement while drilling**

INIS: 1992-08-13; ETDE: 1978-12-11

USE mwd systems

**MEASURING INSTRUMENTS**

Use of a more specific term is recommended.

UF instruments (measuring)

SF tensiometers

NT1 accelerometers

NT1 altimeters

NT1 anemometers

NT2 hot wire anemometers

NT2 laser doppler anemometers

NT1 bolometers

NT1 calorimeters

NT1 densimeters

NT2 pycnometers

NT1 diffractometers

NT2 gamma diffractometers

NT2 neutron diffractometers

NT2 x-ray diffractometers

NT1 displacement gages

NT1 dosimeters

NT2 albedo-neutron dosimeters

NT2 biological dosimeters

NT2 bragg gray chambers

NT2 bubble dosimeters

NT2 calorimetric dosimeters

NT2 chemical dosimeters

NT2 colorimetric dosimeters

NT2 condenser ionization chambers

NT2 exoelectron dosimeters

NT2 extrapolation chambers

NT2 luminescent dosimeters

NT3 rpl dosimeters

NT3 thermoluminescent dosimeters

NT2 photographic film dosimeters

NT2 ritac dosimeters

NT2 ritad dosimeters

NT1 dynamometers

NT1 electric measuring instruments

NT2 ammeters

NT2 electrometers

NT2 electroscopes

NT2 galvanometers

NT2 potentiometers

NT2 power meters

NT2 voltmeters

NT1 ellipsometers

NT1 fire detectors

NT2 smoke detectors

NT1 fluorimeters

NT1 fluxmeters

NT2 squid devices

NT1 fuel gages

NT1 goniometers

NT1 interferometers

NT2 fabry-perot interferometer

NT2 mach-zehnder interferometer

NT2 michelson interferometer

NT1 ion-mobility detectors

NT1 level indicators

NT1 lysimeters

NT1 magnetic balances

NT1 magnetometers

NT2 fluxgate magnetometers

NT2 moving coil magnetometers

NT2 proton precession magnetometers

NT2 vibrating sample magnetometers

NT1 meters

NT2 activity meters

NT2 carbon meters

NT2 flowmeters

NT3 plasma eaters

NT2 gas meters

NT2 heat meters

NT2 hydrogen meters

NT2 oxygen meters

NT2 power meters

- NT2 reactivity meters  
 NT2 sulfur meters  
 NT2 tritium meters  
 NT1 moisture gages  
 NT1 monitors  
   NT2 air pollution monitors  
   NT2 beam monitors  
     NT3 beam scanners  
     NT3 faraday cups  
     NT3 magnetoinduction sensors  
   NT2 failed element monitors  
   NT2 radiation monitors  
     NT3 exposure ratemeters  
     NT3 liquid contamination monitors  
     NT3 neutron monitors  
     NT3 surface contamination monitors  
     NT3 survey monitors  
   NT2 water pollution monitors  
 NT1 multispectral scanners  
 NT1 neutron activation analyzers  
 NT1 noise dosimeters  
 NT1 nuclear reaction analyzers  
 NT1 odorometers  
 NT1 penetrometers  
 NT1 photometers  
   NT2 densitometers  
 NT1 porosimeters  
 NT1 potentiostats  
 NT1 pressure gages  
   NT2 barometers  
   NT2 hot-wire gages  
   NT3 pirani gages  
   NT2 vacuum gages  
     NT3 ionization gages  
       NT4 bayard-alpert gages  
       NT4 philips gages  
       NT4 radioactive ionization gages  
     NT3 knudsen gages  
     NT3 pirani gages  
 NT1 pyranometers  
 NT1 pyrhelimeters  
 NT1 pyrometers  
   NT2 optical pyrometers  
 NT1 radiation detectors  
   NT2 chemical radiation detectors  
   NT2 cherenkov counters  
   NT2 compton diode detectors  
   NT2 corona counters  
   NT2 crystal counters  
     NT3 filament crystal counters  
   NT2 dielectric track detectors  
   NT2 directional radiation detectors  
   NT2 electron multiplier detectors  
   NT2 emanometers  
   NT2 fermilab collider detector  
   NT2 flow counters  
   NT2 four-pi detectors  
   NT2 gas track detectors  
     NT3 bubble chambers  
       NT4 cryogenic bubble chambers  
       NT4 heavy liquid bubble chambers  
       NT4 ultrasonic bubble chambers  
     NT3 cloud chambers  
       NT4 diffusion chambers  
       NT4 expansion chambers  
     NT3 spark chambers  
       NT4 filmless spark chambers  
       NT5 sonic spark chambers  
       NT5 wire spark chambers  
       NT4 projection spark chambers  
       NT4 streamer spark chambers  
       NT4 wide gap spark chambers  
   NT2 geiger-mueller counters  
   NT2 gravitational wave detectors  
   NT2 ionization chambers  
     NT3 boron coated ion chambers  
     NT3 bragg gray chambers  
     NT3 condenser ionization chambers  
     NT3 extrapolation chambers  
     NT3 fission chambers  
     NT3 liquid ionization chambers  
     NT3 multiwire ionization chambers  
   NT2 low level counters  
   NT2 neutron detectors  
     NT3 activation detectors  
     NT3 bf3 counters  
     NT3 boron coated ion chambers  
     NT3 boron lined counters  
     NT3 fission chambers  
     NT3 fission foil detectors  
     NT3 fission thermocouple detectors  
     NT3 he-3 counters  
     NT3 moderating detectors  
       NT4 bonner sphere detectors  
       NT4 long counters  
     NT3 proton recoil detectors  
     NT3 self-powered neutron detectors  
     NT3 threshold detectors  
   NT2 photographic film detectors  
   NT2 position sensitive detectors  
   NT2 proportional counters  
     NT3 bf3 counters  
     NT3 boron lined counters  
     NT3 he-3 counters  
     NT3 liquid proportional counters  
     NT3 multiwire proportional chambers  
       NT4 drift chambers  
       NT5 time projection chambers  
     NT3 needle chambers  
   NT2 pyroelectric detectors  
   NT2 radiometers  
   NT2 scintillation counters  
     NT3 gas scintillation detectors  
     NT3 liquid scintillation detectors  
     NT3 scintillator-photodiode detectors  
     NT3 solid scintillation detectors  
       NT4 bgo detectors  
       NT4 nai detectors  
       NT4 plastic scintillation detectors  
   NT2 secondary emission detectors  
   NT2 self-powered detectors  
     NT3 self-powered gamma detectors  
     NT3 self-powered neutron detectors  
   NT2 semiconductor detectors  
     NT3 bulk semiconductor detectors  
     NT3 cdte semiconductor detectors  
     NT3 ge semiconductor detectors  
       NT4 high-purity ge detectors  
       NT4 li-drifted ge detectors  
     NT3 hgi2 semiconductor detectors  
     NT3 insb semiconductor detectors  
     NT3 junction detectors  
       NT4 li-drifted junction detectors  
     NT3 li-drifted detectors  
       NT4 li-drifted ge detectors  
       NT4 li-drifted junction detectors  
       NT4 li-drifted si detectors  
     NT3 si semiconductor detectors  
       NT4 li-drifted si detectors  
       NT4 si microstrip detectors  
     NT3 surface barrier detectors  
   NT2 shower counters  
   NT2 spark counters  
   NT2 stanford linear collider detector  
   NT2 superconducting colloid detectors  
   NT2 tissue-equivalent detectors  
   NT2 transition radiation detectors  
   NT2 wall-less counters  
   NT2 whole-body counters  
 NT1 radiometric gages  
   NT2 electron-capture detectors  
 NT1 range finders  
   NT2 radar  
     NT3 acoustic radar  
     NT3 optical radar  
   NT2 sonar  
 NT1 riometers  
 NT1 sedimentometers  
 NT1 seismic arrays  
 NT1 seismic detectors  
 NT1 seismographs  
 NT1 spectrometers  
   NT2 alpha spectrometers  
   NT2 beta spectrometers  
   NT2 cosmic ray spectrometers  
   NT2 electron spectrometers  
   NT2 electrostatic spectrometers  
   NT2 epr spectrometers  
   NT2 fission fragment spectrometers  
   NT2 fourier transform spectrometers  
   NT2 gamma spectrometers  
     NT3 compton spectrometers  
     NT3 moessbauer spectrometers  
     NT3 pair spectrometers  
   NT2 heavy ion spectrometers  
   NT2 infrared spectrometers  
     NT3 photoacoustic spectrometers  
   NT2 magnetic spectrometers  
     NT3 flat magnetic spectrometers  
     NT3 magnetic lens spectrometers  
   NT2 mass spectrometers  
     NT3 dynamic mass spectrometers  
       NT4 energy balance mass spectrometers  
       NT4 time-of-flight mass spectrometers  
     NT3 spark mass spectrometers  
     NT3 static mass spectrometers  
   NT2 missing-mass spectrometers  
   NT2 multiparticle spectrometers  
   NT2 neutral particle analyzers  
   NT2 neutron spectrometers  
     NT3 bonner sphere spectrometers  
   NT2 nmr spectrometers  
   NT2 optical spectrometers  
   NT2 proton spectrometers  
   NT2 time-of-flight spectrometers  
     NT3 time-of-flight mass spectrometers  
   NT2 ultraviolet spectrometers  
   NT2 x-ray spectrometers  
 NT1 spectrophotometers  
 NT1 strain gages  
 NT1 thermocouples  
 NT1 thermometers  
   NT2 geothermometers  
   NT2 noise thermometers  
 NT1 thickness gages  
 NT1 time interval analyzers  
   NT2 chronotrons  
 NT1 velocimeters  
 NT1 viscosimeters  
 NT1 weight indicators  
   NT2 balances  
     NT3 microbalances  
 RT dna sequencers  
 RT gyroscopes  
 RT ionosondes  
 RT miniaturization  
 RT nirus facility  
 RT on-line measurement systems  
 RT probes  
 RT reactor instrumentation  
 RT recording systems  
 RT response functions  
 RT sensors  
 RT temperature measurement  
 RT time measurement  
 RT transducers

## MEASURING METHODS

*Important new measuring techniques only.*

- NT1 ellipsometry  
 NT1 thermography  
 NT2 infrared thermography  
 RT calculation methods  
 RT comparative evaluations  
 RT dosimetry

RT frequency measurement  
 RT master metering  
 RT metering  
 RT particle discrimination  
 RT stern-gerlach experiment

**MEAT**

UF *bacon*  
 UF *beef*  
 UF *ham*  
 UF *pork*  
 BT1 food  
 RT cattle  
 RT sheep  
 RT swine  
 RT trichinella

**MEAT INDUSTRY**

INIS: 2000-04-12; ETDE: 1977-06-21  
 \*BT1 food industry

**MECHANICAL DECLADDING**

\*BT1 decladding  
 RT cutting  
 RT milling

**mechanical draft cooling towers**

2000-04-12  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE cooling towers  
 USE forced convection

**mechanical effects**

2000-04-12  
 (Prior to September 1981, this was a valid ETDE descriptor.)  
 USE mechanical properties

**MECHANICAL EFFICIENCY**

BT1 efficiency  
 RT gears

**MECHANICAL ENERGY STORAGE EQUIPMENT**

INIS: 2000-04-12; ETDE: 1979-08-07  
 NT1 flywheels  
 NT1 hydraulic accumulators  
 RT energy storage  
 RT energy storage systems

**MECHANICAL ENGINEERING**

INIS: 1999-02-15; ETDE: 1982-07-08  
 BT1 engineering

**MECHANICAL FILTERS**

1999-07-29  
 BT1 filters  
 NT1 granular bed filters

**mechanical fragmentation**

INIS: 1995-09-08; ETDE: 2002-03-28  
 (Until August 1995 this was a valid term.)  
 USE fragmentation

**MECHANICAL HEART**

BT1 artificial organs  
 \*BT1 prostheses  
 RT blood circulation  
 RT cardiac pacemakers  
 RT heart  
 RT radioisotope batteries

**MECHANICAL IMPEDANCE**

INIS: 1975-11-07; ETDE: 1975-12-16  
 BT1 impedance

**mechanical kidney**

INIS: 2000-04-12; ETDE: 1977-06-02  
 (Prior to March 1996 this was a valid ETDE descriptor.)  
 USE artificial organs  
 USE kidneys

**MECHANICAL POLISHING**

\*BT1 polishing

**MECHANICAL PROPERTIES**

UF *mechanical effects*  
 UF *properties (mechanical)*  
 NT1 brittleness  
 NT1 compressibility  
 NT1 compression strength  
 NT1 creep  
 NT1 dilatancy  
 NT1 elasticity  
 NT2 photoelasticity  
 NT2 thermoelasticity  
 NT1 fatigue  
 NT2 corrosion fatigue  
 NT2 thermal fatigue  
 NT1 flexural strength  
 NT1 fracture properties  
 NT1 hardness  
 NT2 microhardness  
 NT1 impact strength  
 NT1 plasticity  
 NT1 poisson ratio  
 NT1 shear properties  
 NT1 tensile properties  
 NT2 ductility  
 NT2 flexibility  
 NT1 ultimate strength  
 NT1 wear resistance  
 NT1 yield strength  
 NT1 young modulus  
 RT acoustic microscopy  
 RT deformation  
 RT destructive testing  
 RT physical metallurgy  
 RT rheology  
 RT rock mechanics  
 RT stresses  
 RT thermal degradation

**MECHANICAL SHAFTS**

INIS: 1976-09-06; ETDE: 1987-02-20  
 (From January 1975 till March 1997 SHAFTS was a valid ETDE descriptor.)  
 UF *shafts (mechanical)*  
 SF *shafts*  
 BT1 machine parts

**MECHANICAL STRUCTURES**

UF *columns (mechanical)*  
 UF *structures (mechanics)*  
 UF *towers (structures)*  
 SF *towers*  
 NT1 bridges  
 NT1 domed structures  
 NT1 honeycomb structures  
 NT1 intake structures  
 NT1 outlet structures  
 NT1 power transmission towers  
 NT1 roofs  
 NT2 green roofs  
 NT1 supports  
 NT2 foundations  
 NT2 fuel racks  
 NT2 powered supports  
 NT3 shield supports  
 RT buildings  
 RT construction  
 RT modular structures  
 RT ratcheting  
 RT response functions  
 RT shells  
 RT soil-structure interactions

**MECHANICAL TESTS**

See also descriptors for the properties tested.  
 \*BT1 materials testing  
 NT1 impact tests  
 NT2 charpy test

RT dynamic loads  
 RT static loads  
 RT strain gages  
 RT stress intensity factors  
 RT stresses  
 RT thermal cycling  
 RT wear

**MECHANICAL TRANSMISSIONS**

1992-03-11

BT1 machine parts  
 RT automobiles  
 RT gears  
 RT vehicles

**MECHANICAL VIBRATIONS**

(From February 1976 till March 1997 PENDULUMS was a valid ETDE descriptor.)

UF *vibrations (mechanical)*  
 SF *pendulums*  
 RT amplitudes  
 RT damping  
 RT dynamic loads  
 RT harmonics  
 RT hydrodynamic mass effect  
 RT oscillations  
 RT springs  
 RT standing waves  
 RT travelling waves

**MECHANICS**

UF *translation (mechanical)*  
 NT1 classical mechanics  
 NT1 dynamics  
 NT2 beam dynamics  
 NT3 beam bunching  
 NT3 betatron oscillations  
 NT3 phase oscillations  
 NT3 synchrotron oscillations  
 NT1 electromechanics  
 NT1 fluid mechanics  
 NT2 aerodynamics  
 NT2 electrogasdynamics  
 NT2 hydraulics  
 NT3 thermal hydraulics  
 NT2 hydrodynamics  
 NT3 electrohydrodynamics  
 NT3 magnetohydrodynamics  
 NT2 magnetogasdynamics  
 NT2 pneumatics  
 NT1 fracture mechanics  
 NT1 quantum mechanics  
 NT1 rock mechanics  
 NT1 soil mechanics  
 NT1 statistical mechanics  
 RT action integral  
 RT anharmonic oscillators  
 RT canonical transformations  
 RT center-of-mass system  
 RT degrees of freedom  
 RT equations of motion  
 RT galilei transformations  
 RT hamilton-jacobi equations  
 RT harmonic oscillators  
 RT kinetics  
 RT laboratory system  
 RT lagrange equations  
 RT lagrangian function  
 RT moment of inertia  
 RT physical metallurgy  
 RT surface forces  
 RT virial theorem

**medec process**

INIS: 2000-04-12; ETDE: 1980-08-25  
 A process for removal of elemental sodium from LMFBR radioactive wastes.  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 SEE lmfbr type reactors

SEE radioactive waste processing

**MEDIASTINUM**

\*BT1 chest  
RT aorta  
RT esophagus  
RT heart  
RT pleura  
RT thymus  
RT trachea

**mediation**

INIS: 2000-04-12; ETDE: 1981-03-17  
Intervention between conflicting parties to promote reconciliation, settlement, or compromise.

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE arbitration  
SEE dispute settlements  
SEE negotiation

**medical centers**

INIS: 2000-04-12; ETDE: 1977-12-22  
(Prior to July 1985, this was a valid ETDE descriptor.)

USE medical establishments

**MEDICAL ESTABLISHMENTS**

INIS: 1976-12-08; ETDE: 1979-09-26

UF medical centers  
NT1 hospitals  
RT buildings  
RT health services  
RT public health

**MEDICAL EXAMINATIONS**

INIS: 1976-12-08; ETDE: 1978-07-05

BT1 medical surveillance  
RT diagnosis  
RT preventive medicine

**MEDICAL PERSONNEL**

BT1 personnel  
NT1 radiological personnel  
RT medicine

**MEDICAL RECORDS**

INIS: 1976-12-08; ETDE: 1979-05-25

RT medical surveillance

**medical research reactor, bnl**

INIS: 1984-06-21; ETDE: 2002-03-28

USE mrr reactor

**MEDICAL SUPPLIES**

NT1 prostheses  
NT2 mechanical heart  
NT1 surgical materials  
RT drugs  
RT isomed  
RT medicine

**MEDICAL SURVEILLANCE**

(Prior to May 1996 SURVEILLANCE was a valid ETDE descriptor.)

UF surveillance (medical)  
SF surveillance  
NT1 medical examinations  
RT contamination  
RT delayed radiation effects  
RT dose commitments  
RT medical records  
RT personnel  
RT personnel monitoring  
RT preventive medicine  
RT radiation doses

**MEDICINAL PLANTS**

1996-11-13

UF atropa belladonna  
BT1 plants

NT1 aloe  
NT1 castor  
NT1 digitalis  
NT1 papaver somniferum  
RT alkaloids  
RT drugs

**MEDICINE**

UF internal medicine  
NT1 acupuncture  
NT1 balneology  
NT1 dentistry  
NT1 gynecology  
NT1 hematology  
NT1 industrial medicine  
NT1 neurology  
NT1 nuclear medicine  
NT2 radiology  
NT3 biomedical radiography  
NT4 fluoroscopy  
NT4 ionographic imaging  
NT4 osteodensitometry  
NT4 renography  
NT3 radiotherapy  
NT4 afterloading  
NT4 brachytherapy  
NT4 ct-guided radiotherapy  
NT4 neutron therapy  
NT5 neutron capture therapy  
NT4 radioimmunotherapy  
NT1 ophthalmology  
NT1 pediatrics  
NT1 preventive medicine  
NT1 surgery

NT2 adrenalectomy  
NT2 castration  
NT2 gastrectomy  
NT2 hepatectomy  
NT2 hypophysectomy  
NT2 laryngectomy  
NT2 nephrectomy  
NT2 plastic surgery  
NT2 splenectomy  
NT2 thymectomy  
NT2 thyroidectomy  
NT1 therapy  
NT2 chemotherapy  
NT2 combined therapy  
NT2 first aid  
NT2 gene therapy  
NT2 immunotherapy  
NT3 radioimmunotherapy  
NT2 post-irradiation therapy  
NT2 radiotherapy  
NT3 afterloading  
NT3 brachytherapy  
NT3 ct-guided radiotherapy  
NT3 neutron therapy  
NT4 neutron capture therapy  
NT3 radioimmunotherapy

NT2 transfusions  
NT1 tropical medicine  
NT1 veterinary medicine  
RT anesthesia  
RT biology  
RT diagnosis  
RT diagnostic techniques  
RT diagnostic uses  
RT diseases  
RT hospitals  
RT medical personnel  
RT medical supplies  
RT pathology  
RT patients  
RT who

**medicines**

USE drugs

**mediterranean fruit fly**

ETDE: 2000-08-10

USE ceratitis capitata

**MEDITERRANEAN SEA**

\*BT1 seas  
NT1 adriatic sea  
NT1 aegean sea  
RT cyprus  
RT malta

**MEDIUM-BETA PLASMA**

Beta from 0.01 to 0.1.

BT1 plasma  
RT beta ratio

**MEDIUM-HEAD HYDROELECTRIC POWER PLANTS**

INIS: 1993-12-30; ETDE: 1978-08-08

Heads of 15 to 150 meters.

\*BT1 hydroelectric power plants

**medium-level wastes**

INIS: 1979-04-27; ETDE: 2002-03-28

USE intermediate-level radioactive wastes

**medium pressure**

(Prior to November 2003 this was a valid descriptor.)

SEE pressure range kilo pa  
SEE pressure range mega pa 01-10

**medium temperature**

1992-01-23

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range 0273-0400 k

**medium vacuum**

(Prior to November 2003 this was a valid descriptor.)

SEE pressure range milli pa  
SEE pressure range pa

**MEDIUM WAVE RADIATION**

\*BT1 radiowave radiation

**MEETINGS**

1996-05-14

UF conferences  
UF symposia  
RT hearings  
RT proceedings

**meg (mercaptoethylguanidine)**

ETDE: 2005-01-28

(Prior to January 2005 MEG was a valid descriptor.)

USE mercaptoethylguanidine

**MEGA AMP BEAM CURRENTS**

INIS: 1976-10-07; ETDE: 1976-07-07

From 10 exp 6 to 10 exp 9 amp.

\*BT1 beam currents

**megakaryocytes**

USE bone marrow cells

**MEGALOBlastic ANEMIA**

\*BT1 anemias  
RT erythrocytes

**megatron**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE linear pinch devices

**MEGAWATT POWER RANGE**

INIS: 1988-04-15; ETDE: 1989-08-10

BT1 power range  
NT1 power range 01-10 mw  
NT1 power range 10-100 mw  
NT1 power range 100-1000 mw

**mehrzweck-forschungsreaktor**

USE mzfr reactor

**meinzner unit**

INIS: 1983-06-30; ETDE: 2002-03-28

USE hydraulic conductivity

**MEIOSIS**

BT1 cell division  
 RT crossing-over  
 RT gametogenesis  
 RT gene recombination proteins  
 RT mutations

**MEISSNER-OCHSENFELD EFFECT**

RT superconductivity

**MEITNERIUM**

2004-03-19

(Prior to March 2004 ELEMENT 109 was used for this element.)

UF *eka-iridium*UF *element 109*UF *unmillennium*

\*BT1 transactinide elements

**MEITNERIUM 265**

2007-03-13

\*BT1 heavy nuclei  
 \*BT1 meitnerium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**MEITNERIUM 266**

2004-03-19

(Prior to March 2004 ELEMENT 109 266 was used for this concept.)

UF *element 109 266*

\*BT1 alpha decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 meitnerium isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 spontaneous fission radioisotopes

**MEITNERIUM 267**

2007-03-13

\*BT1 heavy nuclei  
 \*BT1 meitnerium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**MEITNERIUM 268**

2004-03-19

(Prior to March 2004 ELEMENT 109 268 was used for this concept.)

UF *element 109 268*

\*BT1 alpha decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 meitnerium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**MEITNERIUM 270**

2007-03-13

\*BT1 alpha decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 meitnerium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**MEITNERIUM 271**

2007-03-13

\*BT1 heavy nuclei  
 \*BT1 meitnerium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**MEITNERIUM 272**

2007-03-13

\*BT1 heavy nuclei

\*BT1 meitnerium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**MEITNERIUM 273**

2007-03-13

\*BT1 heavy nuclei  
 \*BT1 meitnerium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**MEITNERIUM 274**

2007-03-13

\*BT1 heavy nuclei  
 \*BT1 meitnerium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**MEITNERIUM 275**

2007-03-13

\*BT1 alpha decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 meitnerium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**MEITNERIUM 276**

2007-03-13

\*BT1 alpha decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 meitnerium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**MEITNERIUM 279**

2007-03-13

\*BT1 heavy nuclei  
 \*BT1 meitnerium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**MEITNERIUM ISOTOPES**

2004-03-19

(Prior to March 2004 ELEMENT 109 ISOTOPES was used for this concept.)

UF *element 109 isotopes*

BT1 isotopes  
 NT1 meitnerium 265  
 NT1 meitnerium 266  
 NT1 meitnerium 267  
 NT1 meitnerium 268  
 NT1 meitnerium 270  
 NT1 meitnerium 271  
 NT1 meitnerium 272  
 NT1 meitnerium 273  
 NT1 meitnerium 274  
 NT1 meitnerium 275  
 NT1 meitnerium 276  
 NT1 meitnerium 279

**MELAMINE**

\*BT1 amines  
 \*BT1 triazines  
 RT organic polymers

**MELANIN**

UF *melanocytes*  
 \*BT1 hydroxy compounds  
 \*BT1 organic nitrogen compounds  
 BT1 pigments  
 RT hair  
 RT methyl tyrosine  
 RT skin  
 RT tyrosine

**melanocytes**

USE animal cells  
 USE melanin

**MELANOMAS**

\*BT1 epitheliomas

**MELANOVANADITE**

2000-04-12

\*BT1 oxide minerals  
 \*BT1 radioactive minerals  
 RT calcium oxides  
 RT vanadium oxides

**MELATONIN**

\*BT1 tryptamines  
 RT pineal gland

**melekes-*arbus* reactor**

USE arbus reactor

**melekes-*mir* reactor**

USE mir reactor

**melekes-*sm-2* reactor**

USE sm-2 reactor

**melibiose**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE disaccharides

**melilotic acid**

INIS: 1996-06-28; ETDE: 2002-03-28

(Until June 1996 this was a valid descriptor.)

USE hydroxy acids

**MELLIN TRANSFORM**

\*BT1 integral transformations

**MELLITIC ACID**

\*BT1 carboxylic acids

**MELOSH TRANSFORMATION**

BT1 transformations  
 RT hadrons  
 RT quantum field theory  
 RT quarks

**melt refining process**

INIS: 1980-07-24; ETDE: 1979-12-10

USE pyrochemical reprocessing

**MELTDOWN**

\*BT1 reactor accidents  
 RT core catchers  
 RT corium  
 RT source terms

**MELTING***Changing a substance from solid to liquid form by addition of heat.*

UF *fusion (melting)*  
 BT1 phase transformations  
 NT1 electron beam melting  
 NT1 vacuum melting  
 NT1 zone melting  
 RT casting  
 RT crucibles  
 RT defrosting  
 RT freezing  
 RT furnaces  
 RT heating  
 RT liquefaction  
 RT melting points  
 RT metallurgical flux  
 RT smelting  
 RT solidification  
 RT subterranean penetrators  
 RT thawing  
 RT welding

**MELTING POINTS**

UF *freezing points*  
 \*BT1 transition temperature  
 RT freeze protection  
 RT melting  
 RT phase diagrams

**MELUSINE-1 REACTOR**

*CEA-Grenoble Nuclear Studies Centre,  
Grenoble Cedex, France.*

*UF grenoble reactor melusine-1*

- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**melusine-2 reactor**

*USE siloette reactor*

**MEMBER STATES**

*Countries participating in an international organization.*

*RT international organizations*

**MEMBRANE PORES**

*INIS: 2000-04-12; ETDE: 1985-08-22*

*RT cell membranes*  
*RT membrane transport*

**MEMBRANE PROTEINS**

*INIS: 2000-04-12; ETDE: 1987-10-26*

- \*BT1 proteins
- NT1 porins
- NT1 receptors
- NT1 thylakoid membrane proteins
- NT2 phycobiliproteins
- NT3 phycocyanin
- RT antigens*
- RT gtp-ases*
- RT lipoproteins*
- RT membrane transport*

**membrane theory**

*2007-08-13*

*This term is used with different meanings in biological science and high-energy physics.*

*SEE cell membranes*  
*SEE m-theory*

**MEMBRANE TRANSPORT**

*INIS: 1986-07-09; ETDE: 1976-03-22*

*RT calmodulin*  
*RT diffusion*  
*RT mass transfer*  
*RT membrane pores*  
*RT membrane proteins*  
*RT membranes*  
*RT osmosis*  
*RT porins*  
*RT supported liquid membranes*

**MEMBRANES**

*UF ion exchange membranes*

- NT1 cell membranes
- NT2 myelin
- NT1 fetal membranes
- NT2 placenta
- NT1 meninges
- NT1 mucous membranes
- NT2 conjunctiva
- NT1 photosynthetic membranes
- NT1 serous membranes
- NT2 mesentery
- NT2 pericardium
- NT2 peritoneum
- NT2 pleura
- NT1 supported liquid membranes
- RT dialysis*
- RT membrane transport*
- RT osmosis*
- RT permeability*

**MEMORY DEVICES**

*UF data storage devices*  
*UF punched cards*  
*UF storage devices (data)*

NT1 cryogenic storage devices

NT1 magnetic storage devices

NT2 magnetic cores

NT2 magnetic disks

NT2 magnetic drums

NT2 magnetic tapes

NT3 video tapes

NT1 semiconductor storage devices

NT1 thin film storage devices

*RT punched tapes*

*RT quantum cryptography*

**MEMORY MANAGEMENT**

*INIS: 1992-08-18; ETDE: 1987-04-24*

*The task of assigning a computer's main storage within a multitasking environment.*

\*BT1 data processing

*RT computers*

*RT executive codes*

*RT parallel processing*

*RT programming*

**MEN**

BT1 males

\*BT1 man

*RT adults*

**mendelev periodic system**

*USE periodic system*

**MENDELEVIVUM**

\*BT1 actinides

\*BT1 transplutonium elements

**MENDELEVIVUM 245**

*2007-11-22*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**MENDELEVIVUM 246**

*2007-11-22*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**MENDELEVIVUM 247**

*INIS: 1986-06-09; ETDE: 1982-03-11*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**MENDELEVIVUM 248**

*1980-07-24*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**MENDELEVIVUM 249**

*1977-01-25*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**MENDELEVIVUM 250**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**MENDELEVIVUM 251**

*1977-01-26*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**MENDELEVIVUM 252**

- \*BT1 actinide nuclei
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**MENDELEVIVUM 253**

*INIS: 1977-01-26; ETDE: 1976-11-01*

- \*BT1 actinide nuclei
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**MENDELEVIVUM 254**

- \*BT1 actinide nuclei
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**MENDELEVIVUM 255**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**MENDELEVIVUM 256**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 odd-odd nuclei

**MENDELEVIVUM 257**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 odd-even nuclei

**MENDELEVIVUM 258**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**MENDELEVIVUM 259**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes



**MENDELEVIUM 260**

INIS: 1986-03-04; ETDE: 1985-04-09

- \*BT1 actinide nuclei
- \*BT1 mendelevium isotopes
- \*BT1 odd-odd nuclei

**MENDELEVIUM 261**

INIS: 1987-02-25; ETDE: 1987-05-01

- \*BT1 actinide nuclei
- \*BT1 mendelevium isotopes
- \*BT1 odd-even nuclei

**MENDELEVIUM 262**

2007-11-22

- \*BT1 actinide nuclei
- \*BT1 mendelevium isotopes
- \*BT1 odd-odd nuclei

**MENDELEVIUM ADDITIONS**

2000-04-12

- RT mendelevium compounds

**MENDELEVIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**MENDELEVIUM COMPOUNDS**

1996-06-28

- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 mendelevium oxides
- RT mendelevium additions

**mendelevium ions**

1996-07-18

(Until July 1996 this was a valid descriptor.)  
USE ions

**MENDELEVIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 mendelevium 245
- NT1 mendelevium 246
- NT1 mendelevium 247
- NT1 mendelevium 248
- NT1 mendelevium 249
- NT1 mendelevium 250
- NT1 mendelevium 251
- NT1 mendelevium 252
- NT1 mendelevium 253
- NT1 mendelevium 254
- NT1 mendelevium 255
- NT1 mendelevium 256
- NT1 mendelevium 257
- NT1 mendelevium 258
- NT1 mendelevium 259
- NT1 mendelevium 260
- NT1 mendelevium 261
- NT1 mendelevium 262

**MENDELEVIUM OXIDES**

1996-06-28

(From June 1996 to November 2007

MENDELEVIUM COMPOUNDS + OXIDES was used for this concept.)

- \*BT1 mendelevium compounds
- \*BT1 oxides

**MENDOCINO-1 REACTOR**

Mendocino, California, USA. Canceled before construction began.

- \*BT1 bwr type reactors

**MENDOCINO-2 REACTOR**

Mendocino, California, USA. Canceled before construction began.

- \*BT1 bwr type reactors

**MENDOZA**

- \*BT1 argentina

**MENINGES**

- BT1 membranes

RT central nervous system

RT meningococcus

**MENINGOCOCCUS**

- \*BT1 bacteria
- RT meninges
- RT nervous system diseases

**MENOMINEE RIVER**

INIS: 2000-04-12; ETDE: 1980-12-08

- \*BT1 rivers
- RT hydroelectric power plants
- RT michigan
- RT wisconsin

**MENOPAUSE**

- RT age dependence
- RT estrous cycle
- RT fertility
- RT menstrual cycle
- RT menstruation disorders

**menorrhagia**

- USE menstruation disorders

**MENSTRUAL CYCLE**

INIS: 1984-10-23; ETDE: 1984-11-08

- RT estrous cycle
- RT female genitals
- RT fertility
- RT menopause
- RT menstruation disorders
- RT ovulation
- RT rhythmicity

**MENSTRUATION DISORDERS**

- UF amenorrhea
- UF menorrhagia
- \*BT1 urogenital system diseases
- RT endocrine diseases
- RT estrous cycle
- RT female genitals
- RT menopause
- RT menstrual cycle
- RT reproductive disorders

**MENTAL DISORDERS**

- UF psychoses
- RT behavior
- RT brain
- RT central nervous system agents
- RT nervous system diseases
- RT psychotropic drugs

**meperidine**

INIS: 2000-04-12; ETDE: 1981-04-20

- USE pethidine

**merc process**

INIS: 2000-04-12; ETDE: 1978-07-05

Fixed bed, high temperature gasification process (using stirring) for caking coals. (Prior to March 1994, this was a valid ETDE descriptor.)

- USE coal gasification

**mercamine**

- USE cysteamine

**mercaptans**

- USE thiols

**mercaptoalanine-beta**

- USE cysteine

**mercaptoaminoisovaleric acid**

- USE penicillamine

**mercaptoethylamine**

- USE cysteamine

**MERCAPTOETHYLGUANIDINE**

ETDE: 2005-01-28

(Prior to January 2005 MEG was used for this concept.)

UF meg (mercaptoethylguanidine)

- \*BT1 carbonic acid derivatives
- \*BT1 radioprotective substances
- \*BT1 thiols
- RT guanidines

**MERCAPTOPROPYLAMINE**

- \*BT1 radioprotective substances

**MERCAPTOPURINE**

- \*BT1 antimetabolites
- \*BT1 purines
- \*BT1 thiols

**mercaptovaline**

- USE penicillamine

**MERCIER CRITERION**

INIS: 1985-10-23; ETDE: 1985-11-19

- RT flute instability
- RT grad-shafranov equation
- RT magnetohydrodynamics
- RT plasma instability
- RT suydam criterion

**mercuric iodide detectors**

INIS: 1975-12-09; ETDE: 2002-03-28

- USE hgi2 semiconductor detectors

**MERCURY**

- \*BT1 metals

**MERCURY 171**

2007-11-22

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 mercury isotopes
- \*BT1 microseconds living radioisotopes

**MERCURY 172**

2007-11-22

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 mercury isotopes
- \*BT1 microseconds living radioisotopes

**MERCURY 173**

2007-11-22

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 mercury isotopes
- \*BT1 microseconds living radioisotopes

**MERCURY 174**

2007-11-22

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 mercury isotopes
- \*BT1 milliseconds living radioisotopes

**MERCURY 175**

1983-09-01

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 mercury isotopes
- \*BT1 milliseconds living radioisotopes

**MERCURY 176**

1983-09-01

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 mercury isotopes



- \*BT1 heavy nuclei
- \*BT1 mercury isotopes

**MERCURY 204**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes
- \*BT1 stable isotopes

**MERCURY 204 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**MERCURY 205**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes
- \*BT1 minutes living radioisotopes

**MERCURY 206**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes
- \*BT1 minutes living radioisotopes

**MERCURY 206 TARGET**

*1980-05-14*

- BT1 targets

**MERCURY 207**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes

**MERCURY 208**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes

**MERCURY 209**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes

**MERCURY 210**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes

**MERCURY 211**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes

**MERCURY 212**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes

**MERCURY ADDITIONS**

*Alloys containing not more than 1% Hg are listed here.*

- \*BT1 mercury alloys

**MERCURY ALLOYS**

*Alloys containing more than 1% Hg.*

- UF* amalgams
- BT1 alloys
- NT1 mercury additions
- NT1 mercury base alloys

**MERCURY BASE ALLOYS**

- \*BT1 mercury alloys

**MERCURY BROMIDES**

- \*BT1 bromides
- \*BT1 mercury halides

**MERCURY CHLORIDES**

- \*BT1 chlorides
- \*BT1 mercury halides

**MERCURY COMPLEXES**

- BT1 complexes

**MERCURY COMPOUNDS**

*1997-06-17*

- NT1 mercury halides
- NT2 mercury bromides
- NT2 mercury chlorides
- NT2 mercury fluorides
- NT2 mercury iodides
- NT1 mercury hydrides
- NT1 mercury nitrates
- NT1 mercury oxides
- NT1 mercury perchlorates
- NT1 mercury selenides
- NT1 mercury sulfates
- NT1 mercury sulfides
- NT1 mercury tellurides
- RT* organic mercury compounds

**MERCURY COOLED REACTORS**

- \*BT1 liquid metal cooled reactors
- NT1 clementine reactor
- NT1 sbr-2 reactor

**MERCURY FLUORIDES**

- \*BT1 fluorides
- \*BT1 mercury halides

**MERCURY HALIDES**

*1988-11-16*

- \*BT1 halides
- BT1 mercury compounds
- NT1 mercury bromides
- NT1 mercury chlorides
- NT1 mercury fluorides
- NT1 mercury iodides

**MERCURY HYDRIDES**

*INIS: 1987-03-24; ETDE: 1987-11-24*

- \*BT1 hydrides
- BT1 mercury compounds

**MERCURY IODIDES**

- \*BT1 iodides
- \*BT1 mercury halides

**MERCURY IONS**

- \*BT1 ions

**MERCURY ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 mercury 171
- NT1 mercury 172
- NT1 mercury 173
- NT1 mercury 174
- NT1 mercury 175
- NT1 mercury 176
- NT1 mercury 177
- NT1 mercury 178
- NT1 mercury 179
- NT1 mercury 180
- NT1 mercury 181
- NT1 mercury 182
- NT1 mercury 183
- NT1 mercury 184
- NT1 mercury 185
- NT1 mercury 186
- NT1 mercury 187
- NT1 mercury 188
- NT1 mercury 189
- NT1 mercury 190
- NT1 mercury 191
- NT1 mercury 192
- NT1 mercury 193
- NT1 mercury 194
- NT1 mercury 195
- NT1 mercury 196
- NT1 mercury 197
- NT1 mercury 198

- NT1 mercury 199
- NT1 mercury 200
- NT1 mercury 201
- NT1 mercury 202
- NT1 mercury 203
- NT1 mercury 204
- NT1 mercury 205
- NT1 mercury 206
- NT1 mercury 207
- NT1 mercury 208
- NT1 mercury 209
- NT1 mercury 210
- NT1 mercury 211
- NT1 mercury 212

**MERCURY NITRATES**

- BT1 mercury compounds
- \*BT1 nitrates

**MERCURY OXIDES**

- BT1 mercury compounds
- \*BT1 oxides

**MERCURY PERCHLORATES**

*INIS: 2000-04-12; ETDE: 1978-03-03*

- BT1 mercury compounds
- \*BT1 perchlorates

**MERCURY PLANET**

- BT1 planets

**MERCURY SELENIDES**

*1976-03-02*

- BT1 mercury compounds
- \*BT1 selenides

**MERCURY SULFATES**

- BT1 mercury compounds
- \*BT1 sulfates

**MERCURY SULFIDES**

- BT1 mercury compounds
- \*BT1 sulfides
- RT* sulfide minerals

**MERCURY TELLURIDES**

- BT1 mercury compounds
- \*BT1 tellurides

**MERISTEMS**

- UF* cambium
- BT1 plant tissues

**merlin-juelich reactor**

- USE fij-1 reactor

**MERLIN REACTOR**

*2000-04-12*

- UF* aldermaston reactor merlin
- UF* ukaea-merlin reactor
- \*BT1 enriched uranium reactors
- \*BT1 materials testing reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**MERONS**

*INIS: 1983-02-03; ETDE: 1978-10-23*

*Class of solutions of certain field equations; merons appear as particles with one-half unit of topological charge.*

- BT1 quasi particles
- RT* field equations
- RT* instantons
- RT* quark model
- RT* thirring model

**MESENTERY**

- UF* omentum
- \*BT1 serous membranes
- RT* peritoneum
- RT* small intestine

**MESH GENERATION**

INIS: 1982-10-29; ETDE: 1979-12-10

Procedure of preparing coordinate grid for complex calculations, e.g. neutron transport calculations.

RT boundary element method  
 RT computer calculations  
 RT coordinates  
 RT finite difference method  
 RT finite element method  
 RT mathematics  
 RT nodal expansion method

**MESIC ATOMS**

UF mesoatoms  
 \*BT1 hadronic atoms  
 NT1 kaonic atoms  
 NT1 pionic atoms  
 RT mesic molecules  
 RT mesons  
 RT muonic atoms  
 RT pi-k atoms  
 RT pi-mu atoms

**MESIC MOLECULES**

BT1 molecules  
 NT1 muonic molecules  
 RT mesic atoms  
 RT mesons

**MESITYL RADICALS**

\*BT1 aryl radicals

**MESITYLENE**

UF 1,3,5-trimethylbenzene  
 UF trimethylbenzene-sym  
 \*BT1 alkylated aromatics  
 \*BT1 hydrocarbons

**mesoatoms**

USE mesic atoms

**mesocricetus**

USE hamsters

**MESODIALYTE**

2000-04-12

\*BT1 silicate minerals  
 RT niobium silicates  
 RT zirconium silicates

**MESON-BARYON INTERACTIONS**

\*BT1 hadron-hadron interactions  
 NT1 meson-hyperon interactions  
 NT2 kaon-hyperon interactions  
 NT2 pion-hyperon interactions  
 NT1 meson-nucleon interactions  
 NT2 kaon-nucleon interactions  
 NT3 kaon-neutron interactions  
 NT4 kaon minus-neutron interactions  
 NT4 kaon neutral-neutron interactions  
 NT4 kaon plus-neutron interactions  
 NT3 kaon-proton interactions  
 NT4 kaon minus-proton interactions  
 NT4 kaon neutral-proton interactions  
 NT4 kaon plus-proton interactions  
 NT2 pion-nucleon interactions  
 NT3 pion-neutron interactions  
 NT4 pion minus-neutron interactions  
 NT4 pion plus-neutron interactions  
 NT3 pion-proton interactions  
 NT4 pion minus-proton interactions  
 NT4 pion plus-proton interactions

**MESON BEAMS**

\*BT1 particle beams  
 NT1 eta meson beams  
 NT1 kaon beams  
 NT1 pion beams

**meson-deuteron interactions**

USE deuterium target  
 USE meson reactions

**meson exchange**

INIS: 2000-04-12; ETDE: 1979-02-23

USE boson-exchange models

**MESON FACTORIES**

BT1 accelerators  
 NT1 lampf ii synchrotron  
 NT1 lampf linac  
 NT1 pigmi facilities

**MESON-HYPERON INTERACTIONS**

\*BT1 meson-baryon interactions  
 NT1 kaon-hyperon interactions  
 NT1 pion-hyperon interactions

**MESON-MESON INTERACTIONS**

\*BT1 hadron-hadron interactions  
 NT1 kaon-kaon interactions  
 NT1 pion-kaon interactions  
 NT1 pion-pion interactions

**MESON NONETS**

\*BT1 particle multiplets  
 RT pseudoscalar mesons  
 RT tensor mesons  
 RT vector mesons

**MESON-NUCLEON INTERACTIONS**

\*BT1 meson-baryon interactions  
 NT1 kaon-nucleon interactions  
 NT2 kaon-neutron interactions  
 NT3 kaon minus-neutron interactions  
 NT3 kaon neutral-neutron interactions  
 NT3 kaon plus-neutron interactions  
 NT2 kaon-proton interactions  
 NT3 kaon minus-proton interactions  
 NT3 kaon neutral-proton interactions  
 NT3 kaon plus-proton interactions  
 NT1 pion-nucleon interactions  
 NT2 pion-neutron interactions  
 NT3 pion minus-neutron interactions  
 NT3 pion plus-neutron interactions  
 NT2 pion-proton interactions  
 NT3 pion minus-proton interactions  
 NT3 pion plus-proton interactions

**MESON OCTETS**

\*BT1 particle multiplets

**MESON REACTIONS**

UF meson-deuteron interactions  
 \*BT1 charged-particle reactions  
 \*BT1 hadron reactions  
 NT1 kaon reactions  
 NT2 kaon minus reactions  
 NT2 kaon neutral reactions  
 NT2 kaon plus reactions  
 NT1 pion reactions  
 NT2 pion minus reactions  
 NT2 pion plus reactions

**meson resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**MESON SPECTROSCOPY**

BT1 spectroscopy  
 RT mesons

**MESONS**

UF a resonances  
 UF a2h-1320 resonances  
 UF a2l-1280 resonances  
 UF c-1430 resonances  
 UF chi-2800 resonances  
 UF chi-3455 resonances

UF chi resonances  
 UF delta resonances (meson)  
 UF epsilon resonances  
 UF eta-700 resonances  
 UF f-1540 resonances  
 UF kappa-725 resonances  
 UF meson resonances  
 UF omega-1778 resonances  
 UF pi-1016 resonances  
 UF psi-4300 resonances  
 UF psi resonances  
 UF r-1650 resonances  
 UF rho-1500 resonances  
 UF rho-1700 resonances  
 UF s-1000 resonances  
 UF x-2830 resonances  
 BT1 bosons  
 \*BT1 hadrons  
 NT1 antimesons  
 NT2 pseudoscalar antimesons  
 NT3 anti-b neutral mesons  
 NT3 anti-d neutral mesons  
 NT1 axial vector mesons  
 NT2 a1-1260 mesons  
 NT2 b1-1235 mesons  
 NT2 chi b1-9890 mesons  
 NT2 chi1-3510 mesons  
 NT2 d s-2536 mesons  
 NT2 d1-2420 mesons  
 NT2 f1-1285 mesons  
 NT2 f1-1420 mesons  
 NT2 f1-1510 mesons  
 NT2 h1-1170 mesons  
 NT2 k1-1270 mesons  
 NT2 k1-1400 mesons  
 NT1 baryonium  
 NT1 beauty mesons  
 NT2 b c mesons  
 NT2 b mesons  
 NT3 b minus mesons  
 NT3 b neutral mesons  
 NT4 anti-b neutral mesons  
 NT3 b plus mesons  
 NT2 b s mesons  
 NT2 b\*-5325 mesons  
 NT1 bottomonium  
 NT2 chi b0-10235 mesons  
 NT2 chi b0-9860 mesons  
 NT2 chi b1-10255 mesons  
 NT2 chi b1-9890 mesons  
 NT2 chi b2-10270 mesons  
 NT2 chi b2-9915 mesons  
 NT2 upsilon-10023 mesons  
 NT2 upsilon-10355 mesons  
 NT2 upsilon-10580 mesons  
 NT2 upsilon-10860 mesons  
 NT2 upsilon-11020 mesons  
 NT2 upsilon-9460 mesons  
 NT1 charmed mesons  
 NT2 b c mesons  
 NT2 d mesons  
 NT3 d minus mesons  
 NT3 d neutral mesons  
 NT4 anti-d neutral mesons  
 NT3 d plus mesons  
 NT2 d s-2536 mesons  
 NT2 d s mesons  
 NT2 d\*-2010 mesons  
 NT2 d\*2-2460 mesons  
 NT2 d\*s-2110 mesons  
 NT2 d1-2420 mesons  
 NT1 charmonium  
 NT2 chi0-3415 mesons  
 NT2 chi1-3510 mesons  
 NT2 chi2-3555 mesons  
 NT2 eta c-2980 mesons  
 NT2 eta c-3590 mesons  
 NT2 j psi-3097 mesons  
 NT2 psi-3685 mesons

**NT2** psi-3770 mesons  
**NT2** psi-4040 mesons  
**NT2** psi-4160 mesons  
**NT2** psi-4415 mesons  
**NT1** phi mesons  
**NT2** phi-1020 mesons  
**NT2** phi-1680 mesons  
**NT2** phi3-1850 mesons  
**NT1** pseudoscalar mesons  
**NT2** b c mesons  
**NT2** b mesons  
**NT3** b minus mesons  
**NT3** b neutral mesons  
**NT4** anti-b neutral mesons  
**NT3** b plus mesons  
**NT2** b s mesons  
**NT2** d mesons  
**NT3** d minus mesons  
**NT3** d neutral mesons  
**NT4** anti-d neutral mesons  
**NT3** d plus mesons  
**NT2** d s mesons  
**NT2** eta-1295 mesons  
**NT2** eta-1440 mesons  
**NT2** eta c-2980 mesons  
**NT2** eta mesons  
**NT2** eta prime-958 mesons  
**NT2** k-1460 mesons  
**NT2** k-1830 mesons  
**NT2** kaons  
**NT3** antikaons  
**NT4** antikaons neutral  
**NT3** cosmic kaons  
**NT3** kaons minus  
**NT3** kaons neutral  
**NT4** antikaons neutral  
**NT4** kaons neutral long-lived  
**NT4** kaons neutral short-lived  
**NT3** kaons plus  
**NT2** pi-1300 mesons  
**NT2** pi-1770 mesons  
**NT2** pions  
**NT3** cosmic pions  
**NT3** pions minus  
**NT3** pions neutral  
**NT3** pions plus  
**NT2** pseudoscalar antimesons  
**NT3** anti-b neutral mesons  
**NT3** anti-d neutral mesons  
**NT1** scalar mesons  
**NT2** a0-980 mesons  
**NT2** chi0-3415 mesons  
**NT2** f0-1240 mesons  
**NT2** f0-1300 mesons  
**NT2** f0-1590 mesons  
**NT2** f0-1730 mesons  
**NT2** f0-980 mesons  
**NT2** k\*0-1430 mesons  
**NT1** strange mesons  
**NT2** b s mesons  
**NT2** d s-2536 mesons  
**NT2** d s mesons  
**NT2** d\*s-2110 mesons  
**NT2** k-1460 mesons  
**NT2** k-1830 mesons  
**NT2** k\*-1410 mesons  
**NT2** k\*-1680 mesons  
**NT2** k\*-892 mesons  
**NT2** k\*0-1430 mesons  
**NT2** k\*2-1430 mesons  
**NT2** k\*3-1780 mesons  
**NT2** k\*4-2045 mesons  
**NT2** k1-1270 mesons  
**NT2** k1-1400 mesons  
**NT2** k2-1770 mesons  
**NT2** k2-1820 mesons  
**NT2** kaons  
**NT3** antikaons  
**NT4** antikaons neutral

**NT3** cosmic kaons  
**NT3** kaons minus  
**NT3** kaons neutral  
**NT4** antikaons neutral  
**NT4** kaons neutral long-lived  
**NT4** kaons neutral short-lived  
**NT3** kaons plus  
**NT1** strangeonium  
**NT2** f2 prime-1525 mesons  
**NT1** tensor mesons  
**NT2** a2-1320 mesons  
**NT2** a4-2040 mesons  
**NT2** a6-2450 mesons  
**NT2** chi b2-9915 mesons  
**NT2** chi2-3555 mesons  
**NT2** d\*2-2460 mesons  
**NT2** f2-1270 mesons  
**NT2** f2-1430 mesons  
**NT2** f2-1720 mesons  
**NT2** f2-1810 mesons  
**NT2** f2-2010 mesons  
**NT2** f2-2300 mesons  
**NT2** f2-2340 mesons  
**NT2** f2 prime-1525 mesons  
**NT2** f4-2050 mesons  
**NT2** f4-2300 mesons  
**NT2** f6-2510 mesons  
**NT2** k\*2-1430 mesons  
**NT2** k\*3-1780 mesons  
**NT2** k\*4-2045 mesons  
**NT2** k2-1770 mesons  
**NT2** k2-1820 mesons  
**NT2** omega3-1670 mesons  
**NT2** phi3-1850 mesons  
**NT2** pi2-1670 mesons  
**NT2** pi2-2100 mesons  
**NT2** rho3-1690 mesons  
**NT2** rho3-2250 mesons  
**NT2** rho5-2350 mesons  
**NT1** toponium  
**NT1** vector mesons  
**NT2** b\*-5325 mesons  
**NT2** d\*-2010 mesons  
**NT2** j psi-3097 mesons  
**NT2** k\*-1410 mesons  
**NT2** k\*-1680 mesons  
**NT2** k\*-892 mesons  
**NT2** omega-1420 mesons  
**NT2** omega-1600 mesons  
**NT2** omega-782 mesons  
**NT2** phi-1020 mesons  
**NT2** phi-1680 mesons  
**NT2** psi-3685 mesons  
**NT2** psi-3770 mesons  
**NT2** psi-4040 mesons  
**NT2** psi-4160 mesons  
**NT2** psi-4415 mesons  
**NT2** rho-1450 mesons  
**NT2** rho-1700 mesons  
**NT2** rho-2150 mesons  
**NT2** rho-770 mesons  
**NT2** upsilon-10023 mesons  
**NT2** upsilon-10355 mesons  
**NT2** upsilon-10580 mesons  
**NT2** upsilon-10860 mesons  
**NT2** upsilon-11020 mesons  
**NT2** upsilon-9460 mesons  
**NT1** x-1700 mesons  
**NT1** x-1935 mesons  
**NT1** x-2220 mesons  
**NT1** x-3075 mesons  
**RT** mesic atoms  
**RT** mesic molecules  
**RT** meson spectroscopy

**MESOPHILIC CONDITIONS**

*INIS: 1992-03-10; ETDE: 1977-05-09*  
*Temperature range centered at 40 degrees C favoring the growth of certain bacteria.*  
**RT** anaerobic digestion  
**RT** fermentation  
**RT** thermophilic conditions

**MESOSPHERE**

**BT1** earth atmosphere

**MESOZOIC ERA**

*INIS: 1992-04-14; ETDE: 1977-10-19*  
**BT1** geologic ages  
**NT1** cretaceous period  
**NT1** jurassic period  
**NT1** triassic period

**MESQUITE**

*INIS: 2000-04-12; ETDE: 1981-05-18*  
**\*BT1** leguminosae  
**\*BT1** trees

**MESSENGER-RNA**

*1995-06-09*  
**\*BT1** rna  
**RT** dna hybridization  
**RT** exons  
**RT** post-translation modification  
**RT** rna polymerases  
**RT** rna processing  
**RT** transcription

**METABOLIC ACTIVATION**

*INIS: 1992-04-09; ETDE: 1980-01-15*  
**BT1** metabolism  
**RT** biological pathways  
**RT** chemical activation  
**RT** enzyme activity  
**RT** stimulation

**METABOLIC DISEASES**

*1996-06-28*  
**UF** glycosuria  
**UF** obesity  
**BT1** diseases  
**NT1** diabetes mellitus  
**NT1** rickets  
**RT** biochemical reaction kinetics  
**RT** endocrine diseases  
**RT** gastrointestinal tract  
**RT** liver  
**RT** metabolism

**metabolic pathways**

*INIS: 1978-11-24; ETDE: 1978-12-20*  
**USE** biological pathways

**METABOLISM**

**NT1** anabolism  
**NT1** basal metabolism  
**NT1** catabolism  
**NT1** glycolysis  
**NT1** metabolic activation  
**RT** biochemical reaction kinetics  
**RT** biochemistry  
**RT** biological functions  
**RT** biological markers  
**RT** biosynthesis  
**RT** carbon cycle  
**RT** carbon dioxide fixation  
**RT** coenzymes  
**RT** diabetes mellitus  
**RT** dna adducts  
**RT** enzyme activity  
**RT** enzymes  
**RT** fasting  
**RT** glucagon  
**RT** growth  
**RT** hypothalamus  
**RT** insulin

RT krebs cycle  
 RT labelled pool techniques  
 RT liver  
 RT metabolic diseases  
 RT metabolites  
 RT molecular biology  
 RT nitrogen cycle  
 RT nitrogen fixation  
 RT phosphoenolpyruvate  
 RT physiology  
 RT precursor  
 RT radionuclide kinetics  
 RT renal clearance  
 RT respiration  
 RT sulfur cycle  
 RT thermoregulation  
 RT thyroid hormones  
 RT vitamins

**METABOLITES**

INIS: 1996-10-23; ETDE: 1977-09-19

Products of intermediate metabolism.

NT1 glucuronide conjugates  
 NT1 glutathione conjugates  
 RT antimetabolites  
 RT carboxylic acids  
 RT krebs cycle  
 RT metabolism

**metacercariae**

USE larvae

**metagalaxy**

USE universe

**metaiodobenzylguanidine**

INIS: 1995-01-10; ETDE: 1987-04-24

USE mibg

**metal buildings**

INIS: 2000-04-12; ETDE: 1982-01-07

USE prefabricated buildings

**metal castings**

2000-04-12

USE castings

**METAL-GAS BATTERIES**

1997-06-17

\*BT1 electric batteries  
 NT1 aluminium-air batteries  
 NT1 cadmium-air batteries  
 NT1 iron-air batteries  
 NT1 lithium-chlorine batteries  
 NT1 lithium-water-air batteries  
 NT1 nickel-hydrogen batteries  
 NT1 silver-hydrogen batteries  
 NT1 zinc-air batteries  
 NT1 zinc-chlorine batteries  
 RT fuel cells

**METAL INDUSTRY**

1992-03-10

UF steel industry  
 BT1 industry  
 RT beverage industry  
 RT ceramics industry  
 RT foundries  
 RT metals  
 RT mineral industry  
 RT scrap metals  
 RT smelters

**metal-insulator-semiconductor solar cells**

INIS: 2000-04-12; ETDE: 1981-07-18

USE mis solar cells

**metal-insulator solar cells**

INIS: 2000-04-12; ETDE: 1981-07-18

USE mi solar cells

**METAL-METAL BATTERIES**

2000-04-12

\*BT1 electric batteries

**METAL-METAL OXIDE BATTERIES**

1992-10-02

\*BT1 electric batteries  
 NT1 iron-nickel batteries  
 NT1 nickel-cadmium batteries  
 NT1 nickel-zinc batteries  
 NT1 silver-cadmium batteries  
 NT1 silver-zinc batteries  
 NT1 zinc-manganese batteries

**METAL MODERATED REACTORS**

BT1 reactors  
 NT1 beryllium moderated reactors  
 NT2 agata reactor  
 NT2 br-02 reactor  
 NT2 ebora reactor  
 NT2 ewg-1 reactor  
 NT2 maria reactor  
 NT2 nuclear furnace reactor

**METAL-NONMETAL BATTERIES**

1996-06-19

\*BT1 electric batteries  
 NT1 lithium-copper chloride batteries  
 NT1 lithium-sulfur batteries  
 NT1 sodium-sulfur batteries  
 NT1 zinc-bromine batteries

**metal oxide-semiconductor solar cells**

INIS: 1992-05-29; ETDE: 1981-07-18

USE mos solar cells

**metal-semiconductor solar cells**

INIS: 1992-05-29; ETDE: 1981-07-18

USE ms solar cells

**metal spraying**

USE spray coating

**METAL TRANSFER PROCESS**

BT1 separation processes  
 RT molten salt reactors

**METAL VAPOR LASERS**

INIS: 1992-08-18; ETDE: 1981-08-21

(Until August 1992, this concept was indexed by GAS LASERS.)

UF copper vapor lasers  
 \*BT1 gas lasers

**metal-water reactions**

INIS: 1977-09-06; ETDE: 1977-04-12

USE molten metal-water reactions

**METALLIC GLASSES**

INIS: 1984-01-18; ETDE: 1983-01-21

Amorphous alloys produced by extremely rapid quenching of molten material.

UF glassy alloys  
 UF glassy metals  
 UF metglass  
 RT alloys  
 RT amorphous state  
 RT glass  
 RT vitrification

**METALLOGRAPHY**

Limited to the branch of metallurgy concerned with the preparation and examination of the surface of metals.

RT etching  
 RT fractography  
 RT materials testing  
 RT microscopy  
 RT microstructure  
 RT photomicrography  
 RT polishing  
 RT surface finishing

**metalloids**

USE semimetals

**METALLOPROTEINS**

INIS: 1993-08-26; ETDE: 1981-04-17

\*BT1 proteins  
 NT1 ceruloplasmin  
 NT1 ferredoxin  
 NT1 ferritin  
 NT1 hemocyanin  
 NT1 hemosiderin  
 NT1 lactoferrin  
 NT1 metallothionein  
 NT1 rubredoxin  
 NT1 transferrin  
 RT complexes  
 RT metals

**METALLOTHIONEIN**

INIS: 1984-12-04; ETDE: 1980-11-25

Low molecular weight metal-binding proteins controlling heavy metal detoxification.

\*BT1 metalloproteins  
 RT metals

**METALLURGICAL EFFECTS**

1994-07-01

The effects of an alloying element on the physical, mechanical or chemical properties of an alloy.

UF alloying effects  
 RT metallurgy

**METALLURGICAL FLUX**

(From January 1975 till March 1997

WELDING FLUXES was a valid ETDE descriptor.)

UF flux (metallurgy)  
 UF solder fluxes  
 UF soldering fluxes  
 UF welding fluxes  
 RT melting  
 RT welding

**METALLURGY**

Use of a more specific descriptor is recommended; see also FABRICATION.

NT1 electrometallurgy  
 NT1 extractive metallurgy  
 NT2 hydrometallurgy  
 NT2 pyrometallurgy  
 NT3 chloride volatility process  
 NT3 fluoride volatility process  
 NT1 physical metallurgy  
 NT1 powder metallurgy  
 RT metallurgical effects  
 RT zone refining

**METALS**

BT1 elements  
 NT1 actinides  
 NT2 actinium  
 NT2 americium  
 NT2 berkelium  
 NT2 californium  
 NT2 curium  
 NT2 einsteinium  
 NT2 fermium  
 NT2 lawrencium  
 NT2 mendelevium  
 NT2 neptunium  
 NT3 neptunium-alpha  
 NT3 neptunium-gamma  
 NT2 nobelium  
 NT2 plutonium  
 NT3 plutonium-alpha  
 NT3 plutonium-beta  
 NT3 plutonium-delta  
 NT3 plutonium-epsilon  
 NT3 plutonium-gamma  
 NT2 protactinium

**NT2** thorium  
**NT3** thorium-alpha  
**NT3** thorium-beta  
**NT2** uranium  
**NT3** depleted uranium  
**NT3** enriched uranium  
**NT4** highly enriched uranium  
**NT4** moderately enriched uranium  
**NT4** slightly enriched uranium  
**NT3** natural uranium  
**NT3** uranium-alpha  
**NT3** uranium-beta  
**NT3** uranium-gamma  
**NT1** alkali metals  
**NT2** cesium  
**NT2** francium  
**NT2** lithium  
**NT2** potassium  
**NT2** rubidium  
**NT2** sodium  
**NT1** alkaline earth metals  
**NT2** barium  
**NT2** beryllium  
**NT2** calcium  
**NT2** magnesium  
**NT2** radium  
**NT2** strontium  
**NT1** aluminium  
**NT1** antimony  
**NT1** bismuth  
**NT1** cadmium  
**NT1** gallium  
**NT1** germanium  
**NT1** heavy metals  
**NT1** indium  
**NT1** lead  
**NT1** liquid metals  
**NT1** mercury  
**NT1** polonium  
**NT1** rare earths  
**NT2** cerium  
**NT3** cerium-alpha  
**NT3** cerium-beta  
**NT3** cerium-gamma  
**NT2** dysprosium  
**NT2** erbium  
**NT2** europium  
**NT2** gadolinium  
**NT2** holmium  
**NT2** lanthanum  
**NT2** lutetium  
**NT2** neodymium  
**NT2** praseodymium  
**NT2** promethium  
**NT2** samarium  
**NT2** terbium  
**NT2** thulium  
**NT2** ytterbium  
**NT1** refractory metals  
**NT2** hafnium  
**NT3** hafnium-alpha  
**NT3** hafnium-beta  
**NT2** iridium  
**NT2** molybdenum  
**NT2** niobium  
**NT3** niobium-alpha  
**NT3** niobium-beta  
**NT2** osmium  
**NT2** rhenium  
**NT2** rhodium  
**NT2** ruthenium  
**NT2** tantalum  
**NT2** technetium  
**NT2** tungsten  
**NT3** tungsten-alpha  
**NT1** scrap metals  
**NT1** thallium  
**NT1** tin  
**NT1** transition elements

**NT2** chromium  
**NT2** cobalt  
**NT2** copper  
**NT2** gold  
**NT2** hafnium  
**NT3** hafnium-alpha  
**NT3** hafnium-beta  
**NT2** iron  
**NT3** iron-alpha  
**NT3** iron-delta  
**NT3** iron-gamma  
**NT2** manganese  
**NT3** manganese-alpha  
**NT2** molybdenum  
**NT2** nickel  
**NT2** niobium  
**NT3** niobium-alpha  
**NT3** niobium-beta  
**NT2** platinum metals  
**NT3** iridium  
**NT3** osmium  
**NT3** palladium  
**NT3** platinum  
**NT3** rhodium  
**NT3** ruthenium  
**NT2** rhenium  
**NT2** scandium  
**NT2** silver  
**NT2** tantalum  
**NT2** technetium  
**NT2** titanium  
**NT3** titanium-alpha  
**NT3** titanium-beta  
**NT2** tungsten  
**NT3** tungsten-alpha  
**NT2** vanadium  
**NT2** yttrium  
**NT2** zirconium  
**NT3** zirconium-alpha  
**NT3** zirconium-beta  
**NT3** zirconium-omega  
**NT1** zinc

*RT* alloys  
*RT* azbel-kaner resonance  
*RT* carbonyls  
*RT* grueneisen formula  
*RT* metal industry  
*RT* metalloproteins  
*RT* metallothionein  
*RT* semimetals  
*RT* work functions

#### METAMICT STATE

*INIS: 1985-06-10; ETDE: 1982-02-23*  
*State of a radioactive mineral, exhibiting lattice disruption due to radiation damage while the original external morphology is retained.*

*RT* crystal structure  
*RT* minerals  
*RT* physical radiation effects

#### METAMORPHIC ROCKS

*UF* crystalline rocks  
*UF* hornfelses  
**BT1** rocks  
**NT1** amphibolites  
**NT1** gneisses  
**NT1** granulites  
**NT1** marble  
**NT1** quartzites  
**NT1** schists  
**NT1** serpentinites  
*RT* basement rock

#### METAMORPHISM

*The mineralogical and structural adjustment of solid rocks to physical and chemical conditions which have been imposed at depth below the surface zones of weathering and*

*cementation, which differ from the conditions under which the rocks in question originated.*

**NT1** hydrothermal alteration  
*RT* geology  
*RT* hydrothermal stage  
*RT* tectonics

#### METAMORPHOSIS

*RT* adults  
*RT* animal growth  
*RT* larvae  
*RT* ontogenesis  
*RT* pupae

#### metaphase

USE mitosis

#### METASTABLE STATES

*For atomic and molecular states only; for nuclear states use ISOMERIC NUCLEI.*

\*BT1 excited states

#### METASTASES

*RT* neoplasms

#### meteoric water

2000-04-12

*Water of recent atmospheric origin.*

*(Prior to March 1997 this was a valid ETDE descriptor.)*

USE ground water

#### METEORITES

**NT1** iron meteorites  
**NT1** stone meteorites  
**NT2** achondrites  
**NT2** chondrites  
*RT* meteoroids  
*RT* tektites

#### METEOROIDS

*UF* meteors  
*RT* meteorites  
*RT* solar system

#### METEOROLOGY

*RT* acoustic radar  
*RT* atmospheric circulation  
*RT* atmospheric precipitations  
*RT* buoys  
*RT* climate models  
*RT* climates  
*RT* cloud cover  
*RT* clouds  
*RT* condensation nuclei  
*RT* earth atmosphere  
*RT* general circulation models  
*RT* seasons  
*RT* site characterization  
*RT* site selection  
*RT* storms  
*RT* temperature inversions  
*RT* weather  
*RT* wind  
*RT* wmo

#### meteors

USE meteoroids

#### meter wave radiation

USE mhz range  
 USE radiowave radiation

#### METERING

*INIS: 2000-02-01; ETDE: 1980-10-27*

**NT1** master metering  
*RT* measuring methods  
*RT* power meters

#### METERS

*INIS: 2000-02-01; ETDE: 1980-11-08*  
**BT1** measuring instruments

NT1 activity meters  
 NT1 carbon meters  
 NT1 flowmeters  
 NT2 plasma eaters  
 NT1 gas meters  
 NT1 heat meters  
 NT1 hydrogen meters  
 NT1 oxygen meters  
 NT1 power meters  
 NT1 reactivity meters  
 NT1 sulfur meters  
 NT1 tritium meters

**metglass**

INIS: 1984-01-18; ETDE: 2002-03-28  
 USE metallic glasses

**METHACRYLATES**

BT1 carboxylic acid salts  
 RT vinyl monomers

**METHACRYLIC ACID**

UF methacrylic acid-alpha  
 \*BT1 monocarboxylic acids  
 RT polyacrylates  
 RT vinyl monomers

**methacrylic acid-alpha**

USE methacrylic acid

**METHACRYLIC ACID ESTERS**

(From May 1975 till March 1997 METHYL METHACRYLATE was a valid ETDE descriptor.)

UF methyl methacrylate  
 \*BT1 carboxylic acid esters  
 RT pmma  
 RT vinyl monomers

**METHADONE HYDROCHLORIDE**

INIS: 1984-05-24; ETDE: 1976-12-15  
 \*BT1 narcotics

**METHANATION**

2000-04-12

Preparation of methane from carbon monoxide and hydrogen.

BT1 chemical reactions  
 RT beacon process  
 RT reduction  
 RT shift processes  
 RT synthesis gas

**METHANE**

UF biogas  
 UF coalbed methane  
 UF digester gas  
 UF firedamp  
 UF gobar gas  
 \*BT1 alkanes  
 RT biotherm gas process  
 RT bromoform  
 RT carbon tetrachloride  
 RT carbon tetrafluoride  
 RT chloroform  
 RT cryogenic fluids  
 RT ethyl methanesulfonate  
 RT fluoroform  
 RT greenhouse gases  
 RT iodoform  
 RT landfill gas  
 RT methanotrophic bacteria  
 RT methyl bromide  
 RT methyl chloride  
 RT methyl fluoride  
 RT methyl iodide  
 RT methylene chloride  
 RT nitromethane

**methane hydrate deposits**

INIS: 2000-04-12; ETDE: 1983-01-21  
 USE natural gas hydrate deposits

**methane hydrates**

INIS: 1993-01-28; ETDE: 1983-01-21  
 USE gas hydrates

**methane rich gas process**

INIS: 2000-04-12; ETDE: 1976-01-26  
 USE sng processes

**METHANOGENIC BACTERIA**

INIS: 1981-05-11; ETDE: 1978-03-03  
 Bacteria which ferment various organic materials with the production of methane.  
 \*BT1 bacteria  
 NT1 clostridium acetobutylicum

**METHANOL**

UF carbinol  
 UF methyl alcohol  
 UF methyl-fuel  
 UF wood alcohol  
 \*BT1 alcohols  
 RT liquid phase methanol process  
 RT methanol fuels

**METHANOL FUELS**

INIS: 1992-04-13; ETDE: 1979-09-06  
 Pure methanol, methanol-water mixtures, or methanol with additives; for methanol-gasoline mixtures, use GASOHOL.  
 \*BT1 alcohol fuels  
 RT automotive fuels  
 RT gasohol  
 RT methanol

**METHANOL PLANTS**

INIS: 2000-04-12; ETDE: 1979-02-23  
 BT1 industrial plants  
 RT biomass conversion plants  
 RT chemical plants  
 RT coal gasification  
 RT gasoline plants

**METHANOTROPHIC BACTERIA**

INIS: 1992-07-21; ETDE: 1983-05-21  
 Gram-negative bacteria that secure growth energy by the oxidation of methane.  
 \*BT1 bacteria  
 RT cell cultures  
 RT methane

**METHEMOGLOBIN**

\*BT1 hemoglobin  
 RT erythrocytes  
 RT heme  
 RT respiration

**methenamine**

INIS: 1984-05-24; ETDE: 1981-04-20  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 USE antimicrobial agents

**METHIONINE**

UF methylmercaptoaminobutyric acid  
 UF methylthioaminobutyric acid  
 \*BT1 amino acids  
 \*BT1 lipotropic factors  
 \*BT1 organic sulfur compounds  
 RT methyl transferases

**METHOTREXATE**

UF amethopterin  
 \*BT1 antimetabolites

**METHOXY RADICALS**

\*BT1 alkoxy radicals

**methoxybenzene**

USE anisole

**METHYL ACETATE**

INIS: 2000-04-12; ETDE: 1983-09-15  
 \*BT1 acetic acid esters

**methyl alcohol**

USE methanol

**METHYL BROMIDE**

INIS: 1999-04-14; ETDE: 1976-11-01  
 \*BT1 brominated aliphatic hydrocarbons  
 RT fumigants  
 RT methane

**METHYL CHLORIDE**

INIS: 1978-07-31; ETDE: 1978-09-11  
 UF chloromethane  
 \*BT1 chlorinated aliphatic hydrocarbons  
 RT methane

**METHYL ETHER**

1976-07-30  
 UF dimethyl ether  
 \*BT1 ethers  
 RT organic solvents

**methyl ethyl diketone**

USE 2-3-pentanedione

**METHYL FLUORIDE**

INIS: 1978-07-31; ETDE: 1978-09-11  
 \*BT1 fluorinated aliphatic hydrocarbons  
 RT methane

**methyl-fuel**

INIS: 2000-04-12; ETDE: 1976-05-13  
 Trademark name for proprietary blend of methanol and controlled amounts of C2 and C4 alcohols.  
 USE alcohols  
 USE methanol

**methyl glycolol**

USE sarcosine

**METHYL IODIDE**

\*BT1 iodinated aliphatic hydrocarbons  
 RT iodox process  
 RT methane

**METHYL ISOBUTYL KETONE**

UF mibk  
 \*BT1 ketones

**methyl methacrylate**

See also PMMA.  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE methacrylic acid esters

**METHYL METHANESULFONATE**

INIS: 1985-07-22; ETDE: 1976-05-17  
 (Prior to August 1985 MMS was used.)  
 UF mms  
 BT1 mutagens  
 \*BT1 sulfonic acid esters

**methyl nitrate**

INIS: 2000-04-12; ETDE: 1980-11-25  
 USE nitric acid esters

**METHYL NITROSOUREA**

INIS: 2000-04-12; ETDE: 1980-07-23  
 UF mnu  
 \*BT1 carbonic acid derivatives  
 BT1 mutagens  
 \*BT1 nitroso compounds

**METHYL ORANGE**

\*BT1 amines  
 \*BT1 azo dyes  
 BT1 indicators  
 \*BT1 sulfonic acids

**methyl phenols**

USE cresols



**methyl phenyl ether**

USE anisole

**methyl phenyl ketone**

USE acetophenone

**methyl pyridines**

USE picolines

**METHYL RADICALS**

\*BT1 alkyl radicals

**METHYL RED**

\*BT1 amino acids

\*BT1 azo dyes

BT1 indicators

**METHYL TRANSFERASES**

INIS: 1985-12-11; ETDE: 1984-06-29

*A group of enzymes which mediate one carbon metabolism.*

\*BT1 carbon-group transferases

RT dna methylases

RT dna repair

RT methionine

RT methylation

**METHYL TYROSINE**

INIS: 1981-08-06; ETDE: 1981-09-22

UF methyltyrosine

\*BT1 amino acids

\*BT1 aromatics

\*BT1 hydroxy acids

RT melanin

RT radiopharmaceuticals

RT tyrosine

**METHYL VIOLET**

UF crystal violet

\*BT1 amines

\*BT1 triphenylmethane dyes

**methyl viologen**

INIS: 2000-04-12; ETDE: 1980-12-08

USE bipyridines

**methylacetylene**

USE propyne

**METHYLAL**

UF dimethoxymethane

UF formal (methylal)

UF formaldehydedimethylacetal

\*BT1 ethers

RT formaldehyde

**METHYLAMINE**

INIS: 1975-09-16; ETDE: 1975-10-28

\*BT1 amines

**methylaminoacetic acid**

USE sarcosine

**METHYLATION**

BT1 chemical reactions

RT methyl transferases

**methylbenzene**

USE toluene

**methylbutane (2-)**

INIS: 1983-09-06; ETDE: 2002-03-28

USE 2-methylbutane

**METHYLENE BLUE**

\*BT1 amines

\*BT1 antimicrobial agents

\*BT1 chlorides

\*BT1 phenothiazines

**METHYLENE CHLORIDE**

1982-02-09

UF dichloromethane

\*BT1 organic chlorine compounds

RT methane

**METHYLENE RADICALS**

UF methyldiene radicals

BT1 radicals

**methyldiene radicals**

USE methylene radicals

**methylmercaptoaminobutyric acid**

USE methionine

**METHYLMERCURY**

INIS: 1999-03-03; ETDE: 1976-03-11

\*BT1 organic mercury compounds

**METHYLNAPHTHALENES**

INIS: 2000-04-12; ETDE: 1986-02-21

\*BT1 alkylated aromatics

\*BT1 condensed aromatics

**methylpropane (2-)**

ETDE: 2002-03-28

USE 2-methylpropane

**methylpropanol (2-)**

ETDE: 2002-03-28

USE 2-methylpropanol

**methylpropene (2-)**

ETDE: 2002-03-28

USE 2-methylpropene

**methyltetrahydrofuran**

1984-06-21

USE mthf

**methylthioaminobutyric acid**

USE methionine

**METHYLTHYMOL BLUE**

BT1 indicators

\*BT1 triphenylmethane dyes

**methyltyrosine**

INIS: 1984-04-04; ETDE: 2002-06-13

USE methyl tyrosine

**METRIC SYSTEM**

INIS: 2000-04-12; ETDE: 1975-12-16

RT si units

**METRICS**

NT1 kerr metric

NT1 schwarzschild metric

RT curvilinear coordinates

RT fractals

RT gravitational fields

RT mathematical space

RT mathematics

RT matrices

RT measure theory

RT relativity theory

RT space-time

RT tensors

**METRIZAMIDE**

INIS: 1981-08-06; ETDE: 1981-09-22

UF amipaque

\*BT1 amides

BT1 contrast media

**METRONIDAZOLE**

UF flagyl

\*BT1 alcohols

\*BT1 antineoplastic drugs

\*BT1 imidazoles

\*BT1 nitro compounds

\*BT1 radiosensitizers

**metropolitan areas**

USE urban areas

**MEV RANGE***From 10 exp 6 to 10 exp 9 ev.*

BT1 energy range

NT1 mev range 01-10

NT1 mev range 10-100

NT1 mev range 100-1000

**MEV RANGE 01-10**

\*BT1 mev range

**MEV RANGE 10-100**

\*BT1 mev range

**MEV RANGE 100-1000**

\*BT1 mev range

**MEVALONIC ACID**

\*BT1 hydroxy acids

**MEXAMINE**

\*BT1 ethers

\*BT1 radioprotective substances

**MEXICAN ORGANIZATIONS**

INIS: 1975-12-09; ETDE: 1976-01-26

BT1 national organizations

**mexican triga-mark-3 reactor**

2000-04-12

USE triga-3-salazar reactor

**mexican triga-mk-3 reactor**

INIS: 1984-06-21; ETDE: 2002-03-28

USE triga-3-salazar reactor

**MEXICO**

1997-06-19

BT1 developing countries

BT1 latin america

BT1 north america

RT cerro prieto geothermal field

RT oecd

RT pathe geothermal field

RT rio grande river

**MEYERS PROCESS**

2000-04-12

*Process for removal of pyritic sulfur from coal by ferric sulfate leaching.*

\*BT1 desulfurization

**MFTF DEVICES**

INIS: 1978-04-21; ETDE: 1977-10-20

*Mirror Fusion Test Facility.*

UF mirror fusion test facility

UF mx devices

\*BT1 magnetic mirrors

**mfx device**

2000-04-12

*Mirror fusion experiment.*

USE magnetic mirrors

**MH-1A REACTOR***USA Army Corps of Engineers, Gatun Lake, Panama Canal Zone.*

UF floating nuclear power plant-sturgis

UF sturgis-floating nuclear power plant

\*BT1 experimental reactors

\*BT1 mobile reactors

\*BT1 pwr type reactors

**MHD CHANNELS**

UF magnetohydrodynamic channels

RT diffusers

RT mhd generators

RT mhd power plants

RT plasma seeding

**MHD EQUILIBRIUM**

INIS: 1984-05-28; ETDE: 1984-06-14

BT1 equilibrium

RT magnetohydrodynamics

RT plasma instability

### MHD GENERATOR AEDC

INIS: 2000-04-12; ETDE: 1980-02-11  
MHD test facility at Arnold Engineering Development Center which simulates coal-fired MHD.

UF high performance demonstration experiment

UF hpde

UF mhd high performance demonstration experiment

\*BT1 mhd generators

### MHD GENERATOR AERL MARK VI

INIS: 2000-04-12; ETDE: 1979-05-02  
Oil-fired MHD test facility at AVCO Everett Research Laboratory, Massachusetts, USA.

\*BT1 mhd generators

RT mhd generator aerl mark vii

### MHD GENERATOR AERL MARK VII

INIS: 2000-04-12; ETDE: 1985-05-07

\*BT1 mhd generators

RT mhd generator aerl mark vi

### MHD GENERATOR CDIF

INIS: 1993-06-08; ETDE: 1979-05-02  
Coal-Fired Component Development and Integration Facility, Butte, Montana, USA.

\*BT1 coal-fired mhd generators

### MHD GENERATOR CFFF

INIS: 1993-05-04; ETDE: 1979-05-09  
Coal Fired Flow Facility for MHD component testing, Tullahoma, Tennessee.

UF cfff

\*BT1 coal-fired mhd generators

### MHD GENERATOR ETF

INIS: 2000-04-12; ETDE: 1979-05-02  
Engineering test facility. DOE coal-fired combined-cycle MHD/steam demonstration plant.

\*BT1 coal-fired mhd generators

\*BT1 combined-cycle power plants

\*BT1 mhd power plants

### mhd generator etl mark v

INIS: 2000-04-12; ETDE: 1979-05-02  
Gas- or oil-fired MHD test facility at the Electrotechnical Laboratory, Japan.  
(Prior to January 1995, this was a valid descriptor.)

USE mhd generators

### MHD GENERATOR U-02

INIS: 2000-04-12; ETDE: 1979-05-02  
Natural-gas fired MHD test facility in the Russian Federation.

\*BT1 mhd generators

### MHD GENERATOR U-25

INIS: 2000-04-12; ETDE: 1979-05-02  
Natural-gas fired MHD pilot plant in the Russian Federation.

\*BT1 mhd generators

### MHD GENERATOR UTSI

INIS: 2000-04-12; ETDE: 1979-05-02  
Coal-fired MHD generator at University of Tennessee Space Institute, USA.

\*BT1 coal-fired mhd generators

### MHD GENERATORS

UF faraday generators

UF hall generators

UF magnetohydrodynamic generators

UF mhd generator etl mark v

BT1 direct energy converters

NT1 closed-cycle mhd generators

NT2 liquid-metal mhd generators

NT1 coal-fired mhd generators

NT2 mhd generator cdif

NT2 mhd generator cfff

NT2 mhd generator etf

NT2 mhd generator utsi

NT1 disk mhd generators

NT1 mhd generator aedc

NT1 mhd generator aerl mark vi

NT1 mhd generator aerl mark vii

NT1 mhd generator u-02

NT1 mhd generator u-25

NT1 open-cycle mhd generators

NT1 pulsed mhd generators

RT end effects

RT magnetohydrodynamics

RT mhd channels

RT mhd power plants

RT plasma seeding

RT seed recovery

RT seed-slag interactions

RT vapor jet ejectors

RT vapor separators

### mhd high performance demonstration experiment

INIS: 2000-04-12; ETDE: 1980-02-11

USE mhd generator aedc

### mhd instabilities (plasma)

INIS: 1989-04-20; ETDE: 2002-03-28

USE plasma macroinstabilities

### MHD POWER PLANTS

1992-03-30

BT1 power plants

NT1 mhd generator etf

RT fossil-fuel power plants

RT magnetohydrodynamics

RT mhd channels

RT mhd generators

### MHZ RANGE

UF meter wave radiation

UF very high frequency

UF very high frequency radiation

UF vhf

UF vhf radiation

BT1 frequency range

NT1 mhz range 01-100

NT1 mhz range 100-1000

RT radioastronomy

### MHZ RANGE 01-100

\*BT1 mhz range

### MHZ RANGE 100-1000

UF decimeter wave radiation (3-10dm)

UF uhf radiation (100-1000 mhz)

UF uhf radiation (lower range)

UF ultrahigh frequency radiation (100-1000 mhz)

UF ultrahigh frequency radiation (lower range)

\*BT1 mhz range

### MI SOLAR CELLS

INIS: 2000-04-12; ETDE: 1981-07-18

UF metal-insulator solar cells

\*BT1 solar cells

### MIBG

INIS: 1995-01-11; ETDE: 1987-04-24

UF metaiodobenzylguanidine

\*BT1 aromatics

\*BT1 guanidines

\*BT1 organic iodine compounds

RT radiopharmaceuticals

### mibk

USE methyl isobutyl ketone

### MICA

UF paragonite

\*BT1 silicate minerals

NT1 biotite

NT1 muscovite

NT1 vermiculite

RT dielectric materials

RT dielectric track detectors

RT kimberlites

RT pegmatites

### MICE

\*BT1 rodents

NT1 transgenic mice

### micellar-polymer flooding

INIS: 1992-01-16; ETDE: 1976-06-07

USE microemulsion flooding

### MICELLAR SYSTEMS

INIS: 1994-07-01; ETDE: 1975-08-19

Submicroscopic aggregates of molecules.

RT colloids

RT microemulsions

RT molecules

RT particles

### MICHELSON INTERFEROMETER

INIS: 1977-03-01; ETDE: 1977-04-12

\*BT1 interferometers

### MICHIGAN

1997-06-19

\*BT1 usa

RT au sable river

RT detroit river

RT grand river

RT menominee river

RT saginaw river

RT saint clair river

### michigan state triga-mk-1 reactor

1976-02-11

(Prior to November 1990 this was a valid ETDE descriptor.)

USE triga-1-michigan reactor

### michigan state university cyclotrons

1993-11-09

USE msu cyclotrons

### MICRO AMP BEAM CURRENTS

From 10 exp -6 to .001 amp.

\*BT1 beam currents

### MICRO-SCALE HYDROELECTRIC POWER PLANTS

INIS: 1993-12-30; ETDE: 1982-05-12

Hydroelectric power plants producing less than 100kW.

\*BT1 hydroelectric power plants

### MICROANALYSIS

NT1 deuteron microprobe analysis

NT1 electron microprobe analysis

NT1 ion microprobe analysis

NT1 proton microprobe analysis

RT impurities

RT qualitative chemical analysis

RT quantitative chemical analysis

RT trace amounts

### MICROARRAY TECHNOLOGY

2006-01-26

Biotechnology method useful, for example, in determining how a cell can control the expression of large numbers of genes simultaneously.

BT1 biotechnology

RT gene regulation

RT genetic mapping

RT transcription

**MICROBALANCES**

\*BT1 balances

**MICROBIAL DRUG RESISTANCE**

1992-06-11

*The resistance developed by microorganisms to a drug.*

RT drugs

RT microorganisms

**microbial enhanced oil recovery**

INIS: 1992-03-10; ETDE: 1980-10-27

USE microbial eor

**MICROBIAL EOR**

INIS: 1999-03-19; ETDE: 1980-10-27

UF microbial enhanced oil recovery

SF microbial processes

BT1 enhanced recovery

RT bacillus licheniformis

RT corynebacterium fascians

RT microbial leaching

RT microorganisms

**microbial flora**

USE microorganisms

**MICROBIAL LEACHING**

INIS: 1992-03-17; ETDE: 1988-10-27

\*BT1 leaching

RT microbial eor

**microbial processes**

INIS: 1991-09-23; ETDE: 1978-01-23

SEE anaerobic digestion

SEE bioconversion

SEE biodegradation

SEE biophotolysis

SEE fermentation

SEE microbial eor

**microcephaly**

USE malformations

**MICROCHANNEL ELECTRON MULTIPLIERS**

INIS: 1976-02-11; ETDE: 1976-04-19

\*BT1 electron multipliers

**MICROCLIMATES**

INIS: 1992-05-08; ETDE: 1981-06-13

*The local, rather uniform, climate of a specific place or habitat, compared with the climate of the entire area of which it is a part.*

BT1 climates

RT thermal comfort

**microcline**

INIS: 2000-04-12; ETDE: 1977-06-02

*A white to pale yellow, green, or occasionally red mineral of the feldspar group, like orthoclase or common feldspar in composition, but triclinic in form.**(Prior to March 1996 this was a valid ETDE descriptor.)*

USE feldspars

**MICROCOCCUS**

\*BT1 bacteria

NT1 micrococcus luteus

NT1 micrococcus lysodeicticus

NT1 micrococcus radiodurans

**MICROCOCCUS LUTEUS**

INIS: 1977-10-17; ETDE: 1977-11-10

\*BT1 micrococcus

RT nucleases

**MICROCOCCUS LYSODEICTICUS**

\*BT1 micrococcus

**MICROCOCCUS RADIODURANS**

\*BT1 micrococcus

**MICROCOMPUTERS**

INIS: 1988-08-02; ETDE: 1976-08-05

\*BT1 digital computers

NT1 personal computers

**MICROCOSMS**

INIS: 1999-05-18; ETDE: 1981-07-06

*Experimental units designed to contain important components of and to exhibit important processes occurring in a whole ecosystem.*

RT biological models

RT functional models

RT mathematical models

RT mockup

RT simulators

**MICRODOSIMETRY**

BT1 dosimetry

RT energy losses

RT let

RT spatial dose distributions

RT wall effects

**MICROEARTHQUAKES**

1993-01-28

*Magnitude less than two on the Richter scale.*

\*BT1 earthquakes

RT aftershocks

**MICROELECTRONIC CIRCUITS**

1976-03-25

BT1 electronic circuits

NT1 integrated circuits

NT1 microprocessors

RT microelectronics

RT printed circuits

**MICROELECTRONICS**

RT electronic circuits

RT microelectronic circuits

**MICROEMULSION FLOODING**

INIS: 1992-01-16; ETDE: 1976-06-07

UF micellar-polymer flooding

SF polymer flooding

\*BT1 miscible-phase displacement

RT enhanced recovery

RT petroleum

RT well stimulation

**MICROEMULSIONS**

INIS: 1992-02-21; ETDE: 1976-07-07

*Optically isotropic, clear, and stable dispersions of oil, water, surfactant, and cosurfactant; the latter is often an alcohol.*

\*BT1 emulsions

RT micellar systems

RT well stimulation

**microflora**

USE microorganisms

**MICROGENERATION**

2006-05-15

*Generation of electricity or heat below approximately 50 kW.*

BT1 power generation

RT fuel cell power plants

RT heat production

RT low-head hydroelectric power plants

RT photovoltaic power plants

RT small-scale hydroelectric power plants

RT solar thermal power plants

**MICROHARDNESS**

\*BT1 hardness

RT ceramography

**MICRONESIA**

INIS: 1985-06-10; ETDE: 1978-12-11

*Islands of West Pacific Ocean east Of Philippines; includes the Mariana, Palau, Caroline, Marshall, and Gilbert Islands.*

BT1 islands

BT1 oceania

NT1 kiribati

NT1 marshall islands

NT2 bikini

NT2 eniwetok

NT1 nauru

NT1 tuvalu

RT pacific ocean

**MICROORGANISMS**

UF germs (microorganisms)

UF microbial flora

UF microflora

NT1 bacteria

NT2 actinomyces

NT3 frankia

NT2 aerobacter

NT2 aeromonas

NT2 azotobacter

NT2 bacillus

NT3 bacillus cereus

NT3 bacillus licheniformis

NT3 bacillus megaterium

NT3 bacillus subtilis

NT3 thiobacillus ferrooxidans

NT3 thiobacillus oxidans

NT2 brucella

NT2 clostridium

NT3 clostridium acetobutylicum

NT3 clostridium botulinum

NT3 clostridium butyricum

NT3 clostridium perfringens

NT3 clostridium thermocellum

NT3 clostridium

thermosaccharolyticum

NT2 coliforms

NT2 corynebacterium fascians

NT2 corynebacterium parvum

NT2 escherichia coli

NT2 haemophilus

NT2 klebsiella

NT2 lactobacillus

NT2 legionella anisa

NT2 legionella pneumophila

NT2 meningococcus

NT2 methanogenic bacteria

NT3 clostridium acetobutylicum

NT2 methanotrophic bacteria

NT2 micrococcus

NT3 micrococcus luteus

NT3 micrococcus lysodeicticus

NT3 micrococcus radiodurans

NT2 mycobacterium

NT3 mycobacterium tuberculosis

NT2 nocardia

NT2 photosynthetic bacteria

NT3 rhodospseudomonas

NT3 rhodospirillum

NT2 pneumococcus

NT2 proteus

NT2 pseudomonas

NT2 rhizobium

NT2 salmonella

NT3 salmonella typhimurium

NT2 serratia

NT2 shigella

NT2 spirochaetes

NT2 staphylococcus

NT2 streptococcus

NT2 streptomyces

NT2 sulfate-reducing bacteria

NT3 desulfovibrio

NT2 sulfur-oxidizing bacteria

**NT3** rhodococcus  
**NT3** thiobacillus ferroxidans  
**NT3** thiobacillus oxidans  
**NT2** thermoactinomyces  
**NT2** zymomonas mobilis  
**NT1** cyanobacteria  
**NT1** mycoplasma  
**NT2** acholeplasma laidlawii b  
**NT1** protozoa  
**NT2** ciliata  
**NT3** paramecium  
**NT3** tetrahymena  
**NT2** mastigophora  
**NT3** dinoflagellate  
**NT3** euglena  
**NT3** trypanosoma  
**NT2** sarcodina  
**NT3** amoeba  
**NT3** foraminifera  
**NT2** sporozoa  
**NT3** babesidae  
**NT3** plasmodium  
**NT1** rickettsiae  
**NT1** unicellular algae  
**NT2** chlamydomonas  
**NT2** chlorella  
**NT2** euglena  
**NT2** scenedesmus  
**NT1** viruses  
**NT2** aids virus  
**NT2** bacteriophages  
**NT2** influenza viruses  
**NT2** measles virus  
**NT2** oncogenic viruses  
**NT3** adenovirus  
**NT3** leukemia viruses  
**NT3** polyoma virus  
**NT2** polio virus  
**NT2** simian virus  
**NT2** tobacco mosaic virus  
**NT2** vaccinia virus  
**NT1** yeasts  
**NT2** candida  
**NT2** saccharomyces  
**NT3** saccharomyces cerevisiae  
**NT2** torula  
*RT* aerobic digestion  
*RT* anaerobic digestion  
*RT* anti-infective agents  
*RT* antibiotics  
*RT* autotrophs  
*RT* biology  
*RT* bioremediation  
*RT* cell cultures  
*RT* immobilized cells  
*RT* infectious diseases  
*RT* microbial drug resistance  
*RT* microbial eor  
*RT* parasites  
*RT* pathogens  
*RT* photoreactivation  
*RT* virulence

## MICROPROCESSORS

*INIS: 1977-03-01; ETDE: 1976-08-04*

**\*BT1** microelectronic circuits  
*RT* array processors  
*RT* computers

## micropulsations

USE pulsations

## MICRORADIOGRAPHY

*INIS: 1983-03-15; ETDE: 1975-10-01*

*UF* radiography (micro)  
*RT* biomedical radiography  
*RT* industrial radiography

## MICROSCOPES

**NT1** electron microscopes

**NT1** ion microscopes  
**NT1** optical microscopes  
*RT* microscopy

## MICROSCOPY

**NT1** acoustic microscopy  
**NT1** atomic force microscopy  
**NT1** electron microscopy  
**NT2** scanning electron microscopy  
**NT2** transmission electron microscopy  
**NT1** ion microscopy  
**NT1** optical microscopy  
**NT2** scanning light microscopy  
**NT1** scanning tunneling microscopy  
*RT* ceramography  
*RT* histological techniques  
*RT* histology  
*RT* metallography  
*RT* microscopes  
*RT* morphological changes  
*RT* photomicrography

## MICROSECONDS LIVING

### RADIOISOTOPES

*1997-02-07*

(From 10 exp -6 to 0.001 sec; prior to June

2003 MICROSEC LIVING

RADIOISOTOPES was used for this concept.)

**\*BT1** radioisotopes  
**NT1** actinium 216  
**NT1** actinium 218  
**NT1** actinium 219  
**NT1** astatine 215  
**NT1** astatine 216  
**NT1** bismuth 185  
**NT1** bismuth 187  
**NT1** bohrium 260  
**NT1** bohrium 263  
**NT1** cesium 112  
**NT1** cesium 113  
**NT1** chromium 64  
**NT1** darmstadtium 267  
**NT1** darmstadtium 269  
**NT1** darmstadtium 273  
**NT1** dysprosium 140  
**NT1** element 112 277  
**NT1** element 113 278  
**NT1** element 114 285  
**NT1** europium 130  
**NT1** fermium 242  
**NT1** fermium 258  
**NT1** francium 212  
**NT1** francium 213  
**NT1** francium 217  
**NT1** gold 170  
**NT1** gold 171  
**NT1** hafnium 156  
**NT1** hassium 264  
**NT1** hassium 265  
**NT1** iodine 109  
**NT1** iodine 116  
**NT1** iodine 121  
**NT1** iodine 122  
**NT1** iridium 164  
**NT1** iridium 165  
**NT1** krypton 84  
**NT1** krypton 85  
**NT1** lead 178  
**NT1** lutetium 154  
**NT1** meitnerium 266  
**NT1** mendeleevium 245  
**NT1** mercury 171  
**NT1** mercury 172  
**NT1** mercury 173  
**NT1** mercury 201  
**NT1** neon 34  
**NT1** nobelium 250  
**NT1** polonium 186  
**NT1** polonium 188  
**NT1** polonium 213

**NT1** polonium 214  
**NT1** protactinium 218  
**NT1** protactinium 221  
**NT1** radium 217  
**NT1** radium 218  
**NT1** radon 194  
**NT1** radon 215  
**NT1** radon 216  
**NT1** radon 217  
**NT1** rhenium 159  
**NT1** rhenium 160  
**NT1** rhenium 194  
**NT1** rhodium 89  
**NT1** rubidium 76  
**NT1** ruthenium 87  
**NT1** rutherfordium 253  
**NT1** rutherfordium 254  
**NT1** technetium 86  
**NT1** tellurium 106  
**NT1** terbium 135  
**NT1** thorium 217  
**NT1** thorium 219  
**NT1** thorium 220  
**NT1** thulium 144  
**NT1** thulium 145  
**NT1** tin 102  
**NT1** uranium 219  
**NT1** uranium 222  
**NT1** uranium 223  
**NT1** uranium 224  
**NT1** ytterbium 153  
*RT* half-life  
*RT* lifetime

## microseism

*INIS: 2000-04-12; ETDE: 1980-03-04*

USE seismic noise

## microseismic monitoring

*INIS: 2000-04-12; ETDE: 1978-10-30*

USE acoustic monitoring

## MICROSOMES

**\*BT1** ribosomes  
*RT* mixed-function oxidases  
*RT* rna

## MICROSPHERES

*RT* dispersions  
*RT* particle size  
*RT* radiopharmaceuticals

## MICROSPORES

**BT1** spores  
*RT* pollen

## MICROSTRUCTURE

*1999-05-19*

**NT1** cleavage  
**NT1** grain boundaries  
**NT1** grain density  
**NT1** grain orientation  
**NT1** grain size  
**NT1** pore structure  
**NT1** widmanstaetten structure  
*RT* ceramography  
*RT* crystal defects  
*RT* crystal lattices  
*RT* inclusions  
*RT* metallography  
*RT* nanostructures  
*RT* phase diagrams  
*RT* phase transformations  
*RT* solids  
*RT* twinning

## MICROTRONS

**\*BT1** cyclotrons  
**NT1** racetrack microtrons

**MICROTUBULES**

INIS: 1982-02-10; ETDE: 1981-08-04

BT1 cell constituents  
RT proteins

**MICROWAVE AMPLIFIERS**

UF electron cyclotron masers  
UF gyrotrons  
\*BT1 amplifiers  
\*BT1 microwave equipment  
NT1 masers

**microwave discharges**

USE high-frequency discharges

**MICROWAVE DRYERS**

INIS: 2000-04-19; ETDE: 1980-06-23

BT1 dryers  
\*BT1 microwave equipment  
RT microwave ovens  
RT microwave radiation

**MICROWAVE EQUIPMENT**

\*BT1 electronic equipment  
NT1 heterodyne receivers  
NT1 microwave amplifiers  
NT2 masers  
NT1 microwave dryers  
NT1 microwave tubes  
NT2 backward wave tubes  
NT2 klystrons  
NT2 lasertrons  
NT2 magnetrons  
NT2 travelling wave tubes  
NT1 squid devices  
RT cavity resonators  
RT microwave radiation  
RT radio equipment  
RT resonators  
RT superconducting cavity resonators  
RT waveguides

**MICROWAVE HEATING**

INIS: 1994-01-07; ETDE: 1981-07-18

BT1 heating  
RT microwave ovens  
RT microwave radiation  
RT plasma heating

**MICROWAVE OVENS**

INIS: 2000-04-19; ETDE: 1977-06-21

\*BT1 electric appliances  
\*BT1 ovens  
RT microwave dryers  
RT microwave heating  
RT microwave radiation

**MICROWAVE POWER****TRANSMISSION**

1995-02-27

BT1 power transmission  
RT power supplies  
RT power systems  
RT rectennas  
RT rf systems

**MICROWAVE RADIATION**

UF ehf radiation  
UF extremely high frequency radiation  
\*BT1 electromagnetic radiation  
NT1 relict radiation  
RT masers  
RT microwave dryers  
RT microwave equipment  
RT microwave heating  
RT microwave ovens  
RT microwave spectra

**MICROWAVE SPECTRA**

BT1 spectra  
RT microwave radiation

**MICROWAVE TUBES**

BT1 electron tubes  
\*BT1 microwave equipment  
NT1 backward wave tubes  
NT1 klystrons  
NT1 lasertrons  
NT1 magnetrons  
NT1 travelling wave tubes  
RT thermionic tubes

**MICTOMAGNETISM**

2000-04-12

A property exhibited by some alloys whereby they are superparamagnetic.

\*BT1 antiferromagnetism  
\*BT1 ferromagnetism

**MID-ATLANTIC BIGHT**

INIS: 1997-06-19; ETDE: 1985-07-19

The portion of the Atlantic Ocean overlying the continental shelf between Cape Hatteras and Georges Bank.

\*BT1 atlantic ocean  
NT1 new york bight  
RT chesapeake bay  
RT coastal waters  
RT continental shelf  
RT georges bank  
RT gulf stream  
RT long island sound  
RT south atlantic bight  
RT us east coast

**mid-atlantic region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982, this was a valid ETDE descriptor.)

USE usa

**MID-ATLANTIC RIDGE**

INIS: 2000-01-21; ETDE: 1977-08-09

RT atlantic ocean  
RT geologic structures

**midas computer**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE computers

**MIDDAY AURORAE**

BT1 aurorae  
RT auroral oval  
RT auroral zones  
RT charged-particle precipitation  
RT electron precipitation  
RT ionosphere  
RT proton precipitation

**middle distillates**

INIS: 1992-04-01; ETDE: 1979-11-23

USE petroleum distillates

**MIDDLE EAST**

1991-11-06

NT1 bahrain  
NT1 cyprus  
NT1 egyptian arab republic  
NT1 iran  
NT1 iraq  
NT1 israel  
NT1 jordan  
NT1 kuwait  
NT1 lebanon  
NT1 oman  
NT1 qatar  
NT1 saudi arabia  
NT1 syria  
NT1 turkey  
NT1 yemen  
RT arab countries  
RT oapec

RT opec

**middle gust event**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE chemical explosions  
USE surface explosions

**MIDLAND-1 REACTOR**

Consumers Power Co., Midland, Michigan, USA. Canceled in 1986 after construction began (1973).

UF consumers power company midland-1

UF consumers power company midland-1 reactor

\*BT1 process heat reactors  
\*BT1 pwr type reactors

**MIDLAND-2 REACTOR**

Consumers Power Co., Midland, Michigan, USA. Canceled in 1986 after construction began (1973).

UF consumers power company midland-2

UF consumers power company midland-2 reactor

\*BT1 process heat reactors  
\*BT1 pwr type reactors

**midnight discontinuity**

USE harang discontinuity

**midtemperature solar system test facility**

INIS: 2000-04-12; ETDE: 1980-11-08

USE msstf

**MIDUALE**

2000-04-12

\*BT1 chromium steels  
\*BT1 manganese additions  
\*BT1 silicon additions  
\*BT1 tungsten alloys

**MIDWEST FUEL RECOVERY PLANT**

UF morris plant

\*BT1 fuel reprocessing plants

**midwest region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

**mifi irt-2000 reactor**

Moskovskij Inzhenerno-Fizicheskij Inst.

USE irt-2000 moscow reactor

**migas process**

INIS: 2000-04-12; ETDE: 1980-11-25

Process in which excess superheated steam supplies heat of reaction to produce gas with high hydrogen to carbon monoxide ratio.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**MIGDAL THEORY**

RT bremsstrahlung

**mighty epic event**

INIS: 2000-04-12; ETDE: 1977-06-21

A test made during PROJECT ANVIL.

(Prior to January 1995, this term was a valid ETDE descriptor.)

USE nuclear explosions  
USE underground explosions

**MIGMA DEVICES**

1995-09-14

*Nonthermal, nonpulsed devices, in which fusion occurs among the ions of a self-colliding beam.*

- BT1 thermonuclear devices
- RT ion beams
- RT precession

**MIGRATION**

INIS: 1991-08-09; ETDE: 1976-05-13

- RT fish passage facilities
- RT population dynamics

**migration (kernel)**

INIS: 1991-08-09; ETDE: 1979-03-05

- USE amoeba effect

**migration (radionuclide)**

INIS: 1991-08-09; ETDE: 1981-01-27

- USE radionuclide migration

**migration area**

- USE migration length

**MIGRATION LENGTH**

1999-07-20

- UF migration area
- \*BT1 length
- RT diffusion length
- RT slowing-down length

**MIHAMA-1 REACTOR**

KEPCO, Mihama, Fukui, Japan.

- UF kansai-1 reactor
- \*BT1 pwr type reactors

**MIHAMA-2 REACTOR**

KEPCO, Mihama, Fukui, Japan.

- UF kansai-2 reactor
- \*BT1 pwr type reactors

**MIHAMA-3 REACTOR**

KEPCO, Mihama, Fukui, Japan.

- \*BT1 pwr type reactors

**mike event**

INIS: 1996-01-24; ETDE: 1984-06-29

*A test made during PROJECT IVY.*

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE surface explosions
- USE thermonuclear explosions

**MILAN SUPERCONDUCTING CYCLOTRON**

INIS: 1990-12-17; ETDE: 1983-03-24

(Prior to December 1990, this descriptor was spelled MILANSUPERCOND CYCLOTRON.)

- \*BT1 heavy ion accelerators
- \*BT1 isochronous cyclotrons
- \*BT1 superconducting cyclotrons

**MILDEW**

- \*BT1 eumycota
- BT1 parasites
- RT plant diseases

**MILITARY ASSISTANCE**

INIS: 2000-04-12; ETDE: 1986-02-03

- RT foreign policy
- RT international cooperation
- RT national defense

**MILITARY EQUIPMENT**

1999-02-23

(From August 1975 till March 1997

ORDNANCE was a valid ETDE descriptor.)

- UF munitions
- UF ordnance
- BT1 equipment

- RT ammunition

**MILITARY FACILITIES**

INIS: 1998-12-30; ETDE: 1976-03-22

- UF facilities (military)
- NT1 tonopah test range
- RT government buildings
- RT national defense

**MILITARY PERSONNEL**

- UF army personnel
- BT1 personnel
- RT aviation personnel

**MILITARY STRATEGY**

INIS: 1994-08-26; ETDE: 1986-02-03

- RT warfare

**MILK**

- \*BT1 body fluids
- BT1 food
- RT beverages
- RT cows
- RT lactation
- RT mammary glands
- RT milk products
- RT whey

**MILK PRODUCTS**

- BT1 food
- NT1 butter
- NT1 cheese
- NT1 whey
- RT milk

**milk sugar**

- USE lactose

**MILKWEED**

INIS: 2000-04-12; ETDE: 1980-04-14

*A hydrocarbon-producing plant, possible source of synthetic petroleum.*

- \*BT1 euphorbia

**MILKY WAY**

- UF local galaxy
- BT1 galaxies
- RT interstellar space

**MILL TAILINGS**

INIS: 1986-03-04; ETDE: 1977-03-04

- \*BT1 tailings
- RT ore processing
- RT radioactive wastes

**MILLER INDICES**

- RT crystal lattices

**MILLET**

- \*BT1 cereals

**MILLI AMP BEAM CURRENTS**

*From .001 to 1 amp.*

- \*BT1 beam currents

**MILLI EV RANGE**

1999-07-08

- BT1 energy range

**MILLI HZ RANGE**

- BT1 frequency range

**milli k range**

INIS: 1984-04-04; ETDE: 2002-03-28

- USE temperature range 0000-0013 k

**MILLING**

*For milling in the sense of pulverization, use COMMINATION.*

- BT1 machining
- RT mechanical decladding
- RT milling machines

**MILLING MACHINES**

- \*BT1 machine tools

- RT milling

**MILLISECONDS LIVING RADIOISOTOPES**

1998-01-27

(From 0.001 to 1 sec.; prior to June 2003

MILLISEC LIVING RADIOISOTOPES was used for this concept.)

- \*BT1 radioisotopes

- NT1 actinium 206
- NT1 actinium 207
- NT1 actinium 208
- NT1 actinium 209
- NT1 actinium 210
- NT1 actinium 211
- NT1 actinium 212
- NT1 actinium 213
- NT1 actinium 215
- NT1 actinium 220
- NT1 actinium 221
- NT1 aluminium 22
- NT1 aluminium 23
- NT1 aluminium 24
- NT1 aluminium 31
- NT1 aluminium 32
- NT1 aluminium 34
- NT1 antimony 104
- NT1 antimony 134
- NT1 antimony 136
- NT1 argon 31
- NT1 argon 32
- NT1 argon 33
- NT1 argon 34
- NT1 argon 48
- NT1 argon 52
- NT1 argon 53
- NT1 arsenic 64
- NT1 arsenic 66
- NT1 arsenic 75
- NT1 arsenic 84
- NT1 arsenic 86
- NT1 arsenic 87
- NT1 astatine 191
- NT1 astatine 192
- NT1 astatine 193
- NT1 astatine 194
- NT1 astatine 195
- NT1 astatine 196
- NT1 astatine 197
- NT1 astatine 212
- NT1 astatine 217
- NT1 barium 114
- NT1 barium 115
- NT1 barium 116
- NT1 barium 136
- NT1 barium 147
- NT1 barium 148
- NT1 barium 149
- NT1 barium 150
- NT1 beryllium 12
- NT1 beryllium 14
- NT1 bismuth 184
- NT1 bismuth 186
- NT1 bismuth 187
- NT1 bohrium 261
- NT1 bohrium 262
- NT1 bohrium 264
- NT1 bohrium 265
- NT1 boron 12
- NT1 boron 13
- NT1 boron 14
- NT1 boron 15
- NT1 boron 17
- NT1 boron 8
- NT1 bromine 70
- NT1 bromine 91
- NT1 bromine 92

NT1	bromine 93	NT1	europium 133	NT1	krypton 71
NT1	bromine 94	NT1	europium 134	NT1	krypton 94
NT1	cadmium 125	NT1	europium 165	NT1	krypton 95
NT1	cadmium 126	NT1	europium 166	NT1	krypton 99
NT1	cadmium 127	NT1	europium 167	NT1	lanthanum 117
NT1	cadmium 128	NT1	fermium 243	NT1	lanthanum 150
NT1	cadmium 129	NT1	fermium 244	NT1	lawrencium 257
NT1	cadmium 130	NT1	fluorine 24	NT1	lead 179
NT1	cadmium 131	NT1	francium 199	NT1	lead 180
NT1	cadmium 132	NT1	francium 200	NT1	lead 181
NT1	cadmium 95	NT1	francium 201	NT1	lead 182
NT1	cadmium 96	NT1	francium 202	NT1	lead 184
NT1	calcium 36	NT1	francium 203	NT1	lead 205
NT1	calcium 37	NT1	francium 206	NT1	lead 207
NT1	calcium 38	NT1	francium 214	NT1	lithium 10
NT1	calcium 39	NT1	francium 218	NT1	lithium 11
NT1	calcium 53	NT1	francium 219	NT1	lithium 8
NT1	carbon 16	NT1	gadolinium 134	NT1	lithium 9
NT1	carbon 17	NT1	gadolinium 168	NT1	lutetium 150
NT1	carbon 18	NT1	gallium 60	NT1	lutetium 151
NT1	carbon 9	NT1	gallium 62	NT1	lutetium 152
NT1	cerium 119	NT1	gallium 72	NT1	lutetium 153
NT1	cerium 120	NT1	gallium 82	NT1	lutetium 155
NT1	cerium 156	NT1	gallium 83	NT1	lutetium 156
NT1	cerium 157	NT1	gallium 84	NT1	lutetium 161
NT1	cesium 114	NT1	germanium 60	NT1	lutetium 170
NT1	cesium 116	NT1	germanium 61	NT1	magnesium 19
NT1	cesium 145	NT1	germanium 62	NT1	magnesium 20
NT1	cesium 146	NT1	germanium 63	NT1	magnesium 21
NT1	cesium 147	NT1	germanium 71	NT1	magnesium 30
NT1	cesium 148	NT1	germanium 73	NT1	magnesium 31
NT1	cesium 149	NT1	germanium 85	NT1	manganese 48
NT1	cesium 150	NT1	germanium 87	NT1	manganese 49
NT1	cesium 151	NT1	gold 172	NT1	manganese 50
NT1	chlorine 31	NT1	gold 173	NT1	manganese 61
NT1	chlorine 32	NT1	gold 174	NT1	manganese 62
NT1	chlorine 50	NT1	gold 175	NT1	manganese 63
NT1	chromium 45	NT1	gold 191	NT1	manganese 66
NT1	chromium 46	NT1	hafnium 155	NT1	manganese 67
NT1	chromium 47	NT1	hafnium 156	NT1	manganese 68
NT1	chromium 60	NT1	hafnium 157	NT1	manganese 69
NT1	chromium 62	NT1	hassium 265	NT1	meitnerium 266
NT1	chromium 63	NT1	hassium 266	NT1	meitnerium 267
NT1	chromium 64	NT1	hassium 267	NT1	meitnerium 268
NT1	chromium 65	NT1	hassium 275	NT1	meitnerium 270
NT1	chromium 66	NT1	helium 6	NT1	meitnerium 275
NT1	chromium 67	NT1	helium 8	NT1	meitnerium 276
NT1	cobalt 52	NT1	holmium 140	NT1	mendelevium 245
NT1	cobalt 53	NT1	holmium 141	NT1	mendelevium 246
NT1	cobalt 54	NT1	holmium 142	NT1	mercury 174
NT1	cobalt 64	NT1	holmium 143	NT1	mercury 175
NT1	cobalt 66	NT1	holmium 144	NT1	mercury 176
NT1	cobalt 67	NT1	holmium 148	NT1	mercury 177
NT1	cobalt 71	NT1	indium 114	NT1	mercury 178
NT1	cobalt 72	NT1	indium 128	NT1	molybdenum 109
NT1	cobalt 73	NT1	indium 129	NT1	molybdenum 111
NT1	copper 56	NT1	indium 130	NT1	molybdenum 83
NT1	copper 57	NT1	indium 131	NT1	molybdenum 89
NT1	copper 76	NT1	indium 132	NT1	neodymium 124
NT1	copper 77	NT1	indium 133	NT1	neodymium 125
NT1	copper 78	NT1	indium 134	NT1	neodymium 159
NT1	copper 79	NT1	indium 135	NT1	neodymium 160
NT1	darmstadtium 270	NT1	indium 97	NT1	neodymium 161
NT1	darmstadtium 271	NT1	indium 98	NT1	neon 17
NT1	darmstadtium 273	NT1	iodine 108	NT1	neon 25
NT1	darmstadtium 279	NT1	iodine 110	NT1	neon 26
NT1	dysprosium 138	NT1	iodine 140	NT1	neon 31
NT1	dysprosium 139	NT1	iodine 141	NT1	neptunium 226
NT1	dysprosium 149	NT1	iodine 142	NT1	neptunium 227
NT1	element 113 283	NT1	iridium 166	NT1	nickel 49
NT1	element 113 284	NT1	iridium 167	NT1	nickel 50
NT1	element 114 286	NT1	iridium 169	NT1	nickel 52
NT1	element 114 287	NT1	iridium 194	NT1	nickel 53
NT1	element 114 288	NT1	iron 45	NT1	nickel 55
NT1	element 115 287	NT1	iron 46	NT1	nickel 73
NT1	element 115 288	NT1	iron 49	NT1	nickel 75
NT1	erbium 151	NT1	iron 51	NT1	nickel 76
NT1	europium 131	NT1	iron 69	NT1	niobium 107
NT1	europium 132	NT1	iron 70	NT1	niobium 108

NT1 niobium 109	NT1 rhenium 161	NT1 sodium 30
NT1 niobium 110	NT1 rhenium 162	NT1 sodium 31
NT1 niobium 111	NT1 rhenium 163	NT1 sodium 32
NT1 niobium 113	NT1 rhenium 164	NT1 sodium 33
NT1 niobium 81	NT1 rhodium 115	NT1 sodium 34
NT1 niobium 82	NT1 rhodium 116	NT1 sodium 35
NT1 nitrogen 12	NT1 rhodium 118	NT1 strontium 100
NT1 nitrogen 18	NT1 rhodium 120	NT1 strontium 101
NT1 nitrogen 19	NT1 rhodium 121	NT1 strontium 102
NT1 nobelium 251	NT1 rhodium 122	NT1 strontium 75
NT1 nobelium 254	NT1 rhodium 92	NT1 strontium 97
NT1 nobelium 258	NT1 roentgenium 272	NT1 strontium 98
NT1 osmium 162	NT1 roentgenium 273	NT1 strontium 99
NT1 osmium 164	NT1 roentgenium 274	NT1 sulfur 26
NT1 osmium 165	NT1 roentgenium 279	NT1 sulfur 28
NT1 osmium 166	NT1 rubidium 100	NT1 sulfur 29
NT1 osmium 167	NT1 rubidium 74	NT1 tantalum 156
NT1 oxygen 13	NT1 rubidium 95	NT1 tantalum 157
NT1 oxygen 24	NT1 rubidium 96	NT1 tantalum 158
NT1 palladium 117	NT1 rubidium 97	NT1 tantalum 159
NT1 palladium 119	NT1 rubidium 98	NT1 tantalum 182
NT1 palladium 120	NT1 rubidium 99	NT1 technetium 110
NT1 palladium 92	NT1 ruthenium 114	NT1 technetium 111
NT1 phosphorus 26	NT1 ruthenium 115	NT1 technetium 112
NT1 phosphorus 27	NT1 ruthenium 116	NT1 technetium 113
NT1 phosphorus 28	NT1 ruthenium 117	NT1 technetium 114
NT1 phosphorus 38	NT1 ruthenium 118	NT1 technetium 115
NT1 platinum 169	NT1 rutherfordium 254	NT1 technetium 116
NT1 platinum 170	NT1 rutherfordium 256	NT1 technetium 117
NT1 platinum 171	NT1 rutherfordium 258	NT1 technetium 85
NT1 platinum 172	NT1 rutherfordium 260	NT1 technetium 86
NT1 platinum 173	NT1 rutherfordium 262	NT1 tellurium 107
NT1 platinum 174	NT1 samarium 128	NT1 terbium 136
NT1 platinum 184	NT1 samarium 129	NT1 terbium 137
NT1 plutonium 230	NT1 samarium 164	NT1 terbium 138
NT1 polonium 187	NT1 samarium 165	NT1 terbium 142
NT1 polonium 189	NT1 scandium 40	NT1 terbium 146
NT1 polonium 190	NT1 scandium 41	NT1 terbium 171
NT1 polonium 191	NT1 scandium 42	NT1 thallium 176
NT1 polonium 192	NT1 scandium 50	NT1 thallium 177
NT1 polonium 193	NT1 scandium 56	NT1 thallium 178
NT1 polonium 194	NT1 scandium 57	NT1 thallium 179
NT1 polonium 211	NT1 scandium 58	NT1 thallium 183
NT1 polonium 215	NT1 scandium 59	NT1 thorium 209
NT1 polonium 216	NT1 scandium 60	NT1 thorium 210
NT1 potassium 35	NT1 seaborgium 258	NT1 thorium 211
NT1 potassium 36	NT1 seaborgium 259	NT1 thorium 212
NT1 potassium 50	NT1 seaborgium 260	NT1 thorium 213
NT1 potassium 51	NT1 seaborgium 261	NT1 thorium 214
NT1 potassium 52	NT1 seaborgium 262	NT1 thorium 216
NT1 potassium 53	NT1 seaborgium 263	NT1 thorium 221
NT1 potassium 54	NT1 seaborgium 264	NT1 thorium 222
NT1 praseodymium 157	NT1 selenium 65	NT1 thorium 223
NT1 praseodymium 158	NT1 selenium 66	NT1 thulium 146
NT1 praseodymium 159	NT1 selenium 67	NT1 thulium 147
NT1 protactinium 212	NT1 selenium 89	NT1 thulium 150
NT1 protactinium 213	NT1 selenium 91	NT1 tin 135
NT1 protactinium 214	NT1 silicon 24	NT1 tin 136
NT1 protactinium 215	NT1 silicon 25	NT1 tin 137
NT1 protactinium 216	NT1 silicon 35	NT1 tin 99
NT1 protactinium 217	NT1 silicon 36	NT1 titanium 40
NT1 protactinium 222	NT1 silver 120	NT1 titanium 41
NT1 protactinium 223	NT1 silver 121	NT1 titanium 42
NT1 protactinium 224	NT1 silver 123	NT1 titanium 43
NT1 radium 203	NT1 silver 124	NT1 titanium 58
NT1 radium 204	NT1 silver 125	NT1 titanium 59
NT1 radium 205	NT1 silver 126	NT1 titanium 60
NT1 radium 206	NT1 silver 127	NT1 titanium 61
NT1 radium 213	NT1 silver 128	NT1 tungsten 159
NT1 radium 215	NT1 silver 129	NT1 tungsten 160
NT1 radium 219	NT1 silver 130	NT1 tungsten 161
NT1 radium 220	NT1 silver 94	NT1 uranium 217
NT1 radon 193	NT1 silver 95	NT1 uranium 218
NT1 radon 195	NT1 sodium 19	NT1 uranium 225
NT1 radon 197	NT1 sodium 20	NT1 uranium 226
NT1 radon 198	NT1 sodium 24	NT1 vanadium 42
NT1 radon 199	NT1 sodium 27	NT1 vanadium 44
NT1 radon 213	NT1 sodium 28	NT1 vanadium 45
NT1 radon 218	NT1 sodium 29	NT1 vanadium 46



**NT1** vanadium 64  
**NT1** vanadium 65  
**NT1** xenon 109  
**NT1** xenon 110  
**NT1** xenon 111  
**NT1** xenon 143  
**NT1** xenon 145  
**NT1** xenon 147  
**NT1** ytterbium 148  
**NT1** ytterbium 149  
**NT1** ytterbium 154  
**NT1** ytterbium 175  
**NT1** yttrium 100  
**NT1** yttrium 101  
**NT1** yttrium 102  
**NT1** yttrium 103  
**NT1** yttrium 104  
**NT1** yttrium 107  
**NT1** yttrium 108  
**NT1** yttrium 78  
**NT1** yttrium 88  
**NT1** yttrium 93  
**NT1** yttrium 97  
**NT1** yttrium 98  
**NT1** zinc 57  
**NT1** zinc 59  
**NT1** zinc 80  
**NT1** zinc 81  
**NT1** zirconium 105  
**NT1** zirconium 79  
**NT1** zirconium 90  
*RT* half-life  
*RT* lifetime

#### MILLIWATT POWER RANGE

*INIS: 1988-04-15; ETDE: 1990-11-05*  
*UF* power range milli w  
**BT1** power range  
**NT1** power range 01-10 milli w  
**NT1** power range 10-100 milli w  
**NT1** power range 100-1000 milli w

#### MILLSTONE-1 REACTOR

*Dominion Nuclear Connecticut, Inc.,  
 Waterford, Connecticut, USA. Shut down in  
 1995; permanently closed in 1998.*  
*\*BT1* bwr type reactors

#### MILLSTONE-2 REACTOR

*Dominion Nuclear Connecticut, Inc.,  
 Waterford, Connecticut, USA.*  
*\*BT1* pwr type reactors

#### MILLSTONE-3 REACTOR

*Dominion Nuclear Connecticut, Inc.,  
 Waterford, Connecticut, USA.*  
*\*BT1* pwr type reactors

#### MILNE PROBLEM

*RT* angular distribution  
*RT* marshak boundary conditions  
*RT* neutron transport theory

#### milrow event

1994-10-14  
*A test made during OPERATION MANDREL.  
 (Prior to September 1994, this was a valid  
 ETDE descriptor.)*  
*USE* nuclear explosions  
*USE* underground explosions

#### MIM JUNCTIONS

*Metal-Insulator-Metal junctions.*  
**BT1** semiconductor junctions

#### mimic

2000-04-12  
*(Prior to January 1995, this was a valid ETDE  
 descriptor.)*  
*USE* programming languages

#### MIMOSINE

*\*BT1* amino acids  
*RT* leguminosae  
*RT* toxicity

#### minami ambiguity

1996-06-28  
*(Until June 1996 this was a valid descriptor.)*  
*SEE* angular distribution  
*SEE* parity

#### minas gerais university triga reactor

*INIS: 1993-11-09; ETDE: 2002-03-28*  
*USE* triga-brazil reactor

#### MINE CARS

*INIS: 2000-04-12; ETDE: 1980-05-23*  
*\*BT1* haulage equipment  
**BT1** vehicles  
*RT* mining  
*RT* transport

#### MINE DRAINING

*INIS: 1992-04-08; ETDE: 1977-06-24*  
*RT* acid mine drainage  
*RT* coal mines  
*RT* drainage  
*RT* underground mining  
*RT* water influx

#### MINE DRIVAGE

*INIS: 2000-04-12; ETDE: 1988-11-23*  
*Driving a drift for development or for use as  
 an underground road.*  
*RT* construction  
*RT* mine roadways  
*RT* tunnels  
*RT* underground mining

#### MINE HAULAGE

*INIS: 2000-04-12; ETDE: 1977-06-24*  
**BT1** materials handling  
*RT* chain conveyors  
*RT* haulage equipment  
*RT* loaders

#### mine-mouth generating plants

*INIS: 2000-04-12; ETDE: 1979-12-10*  
*USE* coal mines  
*USE* fossil-fuel power plants

#### MINE RESCUE

*INIS: 2000-04-12; ETDE: 1978-05-03*  
**BT1** rescue operations  
*RT* accidents  
*RT* evacuation  
*RT* mines  
*RT* safety

#### MINE ROADWAYS

*INIS: 1993-03-15; ETDE: 1978-05-03*  
*UF* roadways (mines)  
*\*BT1* tunnels  
*RT* mine drivage  
*RT* underground mining

#### mine safety and health administration

*INIS: 2000-04-12; ETDE: 1982-02-08*  
*USE* us msha

#### MINE SHAFTS

*INIS: 1991-12-18; ETDE: 1981-04-17*  
*(Prior to January 1992, this concept was  
 indexed to SHAFT EXCAVATIONS.)*  
*UF* shafts (mine)  
*SF* shafts  
**BT1** shaft excavations  
**NT1** abandoned shafts  
*RT* cavities  
*RT* openings  
*RT* underground mining

#### mine site rehabilitation

*INIS: 2000-03-28; ETDE: 1990-10-09*  
*SEE* land reclamation  
*SEE* remedial action

#### mine tailings

*INIS: 1981-02-27; ETDE: 2002-03-28*  
*USE* tailings

#### mine wastes

*INIS: 1993-06-08; ETDE: 2002-03-28*  
*USE* mineral wastes

#### mineral acids

*USE* inorganic acids

#### MINERAL CYCLING

*INIS: 1992-02-18; ETDE: 1976-08-24*  
*The cyclic movement of elemental mineral  
 nutrients in ecosystems.*  
*RT* air-biosphere interactions  
*RT* biogeochemistry  
*RT* carbon cycle  
*RT* carbon sinks  
*RT* ecological concentration  
*RT* ecosystems  
*RT* nitrogen cycle  
*RT* sulfur cycle

#### MINERAL INDUSTRY

*INIS: 1993-08-04; ETDE: 1976-11-01*  
*UF* mining industry  
**BT1** industry  
*RT* ceramics industry  
*RT* coal industry  
*RT* metal industry  
*RT* oil sand industry  
*RT* oil shale industry  
*RT* petroleum industry

#### mineral oil(s)

*INIS: 2000-04-12; ETDE: 1976-03-11*  
*SEE* lubricants  
*SEE* petroleum

#### MINERAL RESOURCES

1995-04-07  
*The totality of the discovered and  
 undiscovered quantities of a particular  
 mineral or similar commodity, i.e., its crustal  
 abundance.*  
**BT1** resources  
**NT1** coal deposits  
**NT2** coal seams  
**NT1** natural gas deposits  
**NT2** natural gas fields  
**NT3** gas condensate fields  
**NT1** oil shale deposits  
**NT2** us naval oil shale reserves  
**NT1** petroleum deposits  
**NT2** gas condensate fields  
**NT2** oil fields  
**NT2** us naval petroleum reserves  
**NT1** uranium deposits  
**NT2** blizzard deposit  
**NT2** erzgebirge deposit  
**NT2** jabiluka deposit  
**NT2** koongarra deposit  
**NT2** nabarlek deposit  
**NT2** ranger deposit  
**NT2** ranstad deposit  
**NT2** roxby downs deposit  
**NT2** south alligator deposit  
**NT2** yeelirrie deposit  
*RT* mineral rights  
*RT* minerals  
*RT* resource management  
*RT* resource potential  
*RT* royalties  
*RT* uranium reserves

**MINERAL RIGHTS**

*INIS: 2000-04-12; ETDE: 1979-07-24*

- UF* mining rights
- RT* land ownership
- RT* land use
- RT* legal aspects
- RT* mineral resources
- RT* mining laws
- RT* ownership

**MINERAL SPRINGS**

*2000-01-26*

- BT1* water springs
- RT* hot springs
- RT* thermal springs

**mineral virginia north anna-1****reactor**

*INIS: 1993-11-09; ETDE: 2002-03-28*

- USE* north anna-1 reactor

**mineral virginia north anna-2****reactor**

*INIS: 1993-11-09; ETDE: 2002-03-28*

- USE* north anna-2 reactor

**mineral virginia north anna-3****reactor**

*INIS: 1993-11-09; ETDE: 2002-03-28*

- USE* north anna-3 reactor

**mineral virginia north anna-4****reactor**

*INIS: 2002-04-03; ETDE: 2002-03-28*

- USE* north anna-4 reactor

**MINERAL WASTES**

*INIS: 1993-06-08; ETDE: 1976-01-23*

- UF* mine wastes
- \**BT1* solid wastes
- NT1* culm
- RT* dredge spoil
- RT* spoil banks
- RT* tailings

**MINERAL WOOL**

*INIS: 2000-04-12; ETDE: 1976-11-01*

- RT* fibers
- RT* thermal insulation

**MINERALIZATION**

- RT* crystallization
- RT* mineralogy
- RT* plutonic rocks

**MINERALOCORTICOIDS**

*1996-10-23*

(Prior to March 1997 DOCA was a valid ETDE descriptor.)

- UF* desoxycorticosterone acetate
- UF* doca
- \**BT1* corticosteroids
- NT1* aldosterone

**MINERALOGY**

- RT* mineralization
- RT* minerals
- RT* petrochemistry

**MINERALS**

(From May 1982 till February 1997

ELEMENTAL MINERALS was a valid ETDE descriptor.)

- UF* elemental minerals
- UF* lead minerals
- UF* sodium minerals
- UF* vanadium minerals
- NT1* black sands
- NT1* carbonate minerals
  - NT2* ankerite
  - NT2* aragonite

- NT2* calcite
- NT2* dawsonite
- NT2* diderichite
- NT2* dolomite
- NT2* nahcolite
- NT2* shortite
- NT2* siderite
- NT2* trona
- NT1* diamonds
- NT1* graphite
- NT1* halide minerals
  - NT2* carnallite
  - NT2* fluorite
  - NT2* halite
- NT1* oxide minerals
  - NT2* baddeleyite
  - NT2* bastnaesite
  - NT2* becquerelite
  - NT2* billietite
  - NT2* brannerite
  - NT2* chrysoberyl
  - NT2* clarkeite
  - NT2* compreignacite
  - NT2* corundum
    - NT3* ruby
    - NT3* sapphire
  - NT2* corvusite
  - NT2* cristobalite
  - NT2* ellsworthite
  - NT2* ferganite
  - NT2* ferrite garnets
  - NT2* gibbsite
  - NT2* goethite
  - NT2* guilleminite
  - NT2* hallimondite
  - NT2* heinrichite
  - NT2* hematite
  - NT2* hollandite
  - NT2* ianthinite
  - NT2* ilmenite
  - NT2* kahlerite
  - NT2* kaolin
  - NT2* kirchheimerite
  - NT2* limonite
  - NT2* lodochnikite
  - NT2* lyndochite
  - NT2* magnetite
  - NT2* marignacite
  - NT2* melanovanadite
  - NT2* moctezumite
  - NT2* mullite
  - NT2* naegite
  - NT2* nogizawalite
  - NT2* nordstrandite
  - NT2* novacekite
  - NT2* para-schoepite
  - NT2* pascoite
  - NT2* perovskite
  - NT2* quartz
  - NT2* rauvite
  - NT2* rutile
  - NT2* schoepite
  - NT2* sengierite
  - NT2* silica
    - NT3* opals
  - NT2* spinels
  - NT2* stishovite
  - NT2* tantalite
  - NT2* tapiolite
  - NT2* thorianite
  - NT2* tyuyamunite
  - NT2* uraninites
    - NT3* broeggerite
    - NT3* pitchblende
  - NT2* uranium black
  - NT2* wolframite
  - NT2* zirconolite
- NT1* perovskites
- NT2* perovskite

- NT1* phosphate minerals
  - NT2* apatites
  - NT2* autunite
  - NT2* monazites
  - NT2* ningyoite
  - NT2* saleeite
  - NT2* torbernite
  - NT2* xenotime
- NT1* pyrochlore
- NT1* radioactive minerals
  - NT2* baddeleyite
  - NT2* corvusite
  - NT2* fersmite
  - NT2* kainosite
  - NT2* melanovanadite
  - NT2* pascoite
  - NT2* rutile
  - NT2* thorium minerals
    - NT3* allanite
    - NT3* bastnaesite
    - NT3* brannerite
    - NT3* ekanite
    - NT3* freyalite
    - NT3* hydrothorite
    - NT3* lodochnikite
    - NT3* lyndochite
    - NT3* mackintoshite
    - NT3* maitlandite
    - NT3* monazites
    - NT3* naegite
    - NT3* thorianite
    - NT3* thorite
      - NT4* jiningite
    - NT3* thucholite
    - NT3* uranorhorite
- NT2* uranium minerals
  - NT3* autunite
  - NT3* bassetite
  - NT3* becquerelite
  - NT3* billietite
  - NT3* brannerite
  - NT3* carnotite
  - NT3* clarkeite
  - NT3* coffinite
  - NT3* compreignacite
  - NT3* dewindtite
  - NT3* diderichite
  - NT3* djalmaite
  - NT3* ekanite
  - NT3* ellsworthite
  - NT3* ferganite
  - NT3* fourmarierite
  - NT3* gastunite
  - NT3* guilleminite
  - NT3* hallimondite
  - NT3* heinrichite
  - NT3* ianthinite
  - NT3* kahlerite
  - NT3* kirchheimerite
  - NT3* lodochnikite
  - NT3* mackintoshite
  - NT3* moctezumite
  - NT3* montroseite
  - NT3* naegite
  - NT3* natroautunite
  - NT3* ningyoite
  - NT3* novacekite
  - NT3* para-schoepite
  - NT3* ranquillite
  - NT3* rauvite
  - NT3* sabugalite
  - NT3* saleeite
  - NT3* schoepite
  - NT3* sengierite
  - NT3* sklodowskite
  - NT3* soddyite
  - NT3* thorianite
  - NT3* thucholite
  - NT3* torbernite

NT3 tyuyamunite  
 NT3 uraninites  
 NT4 broeggerite  
 NT4 pitchblende  
 NT3 uranium black  
 NT3 uranophane  
 NT3 uranothorite  
 NT3 vesuvianite  
 NT1 silicate minerals  
 NT2 alamosite  
 NT2 allanite  
 NT2 alvite  
 NT2 amphibole  
 NT3 hornblende  
 NT2 beryl  
 NT2 chlorite minerals  
 NT2 clays  
 NT3 attapulgitite  
 NT3 bentonite  
 NT3 boom clay  
 NT3 clinoptilolite  
 NT3 fullers earth  
 NT3 illite  
 NT3 kaolin  
 NT3 montmorillonite  
 NT3 sepiolite  
 NT3 smectite  
 NT2 coffinite  
 NT2 cristobalite  
 NT2 diopside  
 NT2 ekanite  
 NT2 enstatite  
 NT2 epidotes  
 NT2 feldspars  
 NT3 anorthite  
 NT3 orthoclase  
 NT2 freyalite  
 NT2 garnets  
 NT2 hedenbergite  
 NT2 helvite  
 NT2 hydrothorite  
 NT2 ilvaite  
 NT2 kainosite  
 NT2 kaolinite  
 NT2 laventite  
 NT2 lovozerite  
 NT2 mackintoshite  
 NT2 maitlandite  
 NT2 mesodialyte  
 NT2 mica  
 NT3 biotite  
 NT3 muscovite  
 NT3 vermiculite  
 NT2 olivine  
 NT2 petalite  
 NT2 pollucite  
 NT2 pyrophyllite  
 NT2 ranquillite  
 NT2 serpentine  
 NT2 sklodowskite  
 NT2 soddyite  
 NT2 talc  
 NT2 thorite  
 NT3 jiningite  
 NT2 titanite  
 NT2 tourmaline  
 NT2 uranophane  
 NT2 uranothorite  
 NT2 zeolites  
 NT3 clinoptilolite  
 NT3 faujasite  
 NT3 heulandite  
 NT3 laumontite  
 NT3 mordenite  
 NT3 wairakite  
 NT2 zircon  
 NT1 sulfate minerals  
 NT2 alunite  
 NT2 anhydrite

NT2 barite  
 NT2 gypsum  
 NT2 polyhalite  
 NT1 sulfide minerals  
 NT2 chalcopyrite  
 NT2 galena  
 NT2 marcasite  
 NT2 pyrite  
 NT2 pyrrhotite  
 NT3 troilite  
 RT concretions  
 RT environmental materials  
 RT geobarometry  
 RT metamict state  
 RT mineral resources  
 RT mineralogy  
 RT ores  
 RT rocks  
 RT tektites  
 RT torbanite  
 RT translocation

### MINERS

BT1 personnel  
 NT1 coal miners  
 RT life support systems

### MINERVE REACTOR

CEA/CEN Cadarache, St. Paul Lez Durance, France.

UF french minerve reactor  
 UF zero power critical experiment minerve  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

### MINES

1997-06-17  
 BT1 underground facilities  
 NT1 asse salt mine  
 NT1 coal mines  
 NT1 konrad ore mine  
 NT1 uranium mines  
 NT2 beaverlodge mine  
 NT2 cluff lake mine  
 NT2 key lake mine  
 NT2 mary kathleen mines  
 NT2 olympic dam mine  
 NT2 osamu utsumi mine  
 NT2 rum jungle mine  
 NT2 stanleigh mine  
 RT abandoned shafts  
 RT backfilling  
 RT mine rescue  
 RT mining  
 RT shaft excavations  
 RT surface mining  
 RT tunnels  
 RT underground mining  
 RT water influx

### mini-serve stations

INIS: 2000-04-12; ETDE: 1979-05-09  
 USE gasoline service stations

### miniata event

2000-04-12  
 A test made during OPERATION GROMMET.  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

### miniature neutron source reactors

2004-03-15  
 USE mnsr type reactors

### MINIATURE SWINE

\*BT1 swine

### MINIATURIZATION

RT electrical equipment  
 RT electronic equipment  
 RT measuring instruments  
 RT semiconductor devices

### MINIMARS REACTOR

INIS: 2000-04-12; ETDE: 1986-04-11

\*BT1 magnetic mirror type reactors  
 RT mars reactor

### MINIMIZATION

INIS: 1983-06-30; ETDE: 1982-08-11

BT1 optimization  
 RT augmentation

### MINIMUM AVERAGE-B CONFIGURATIONS

UF average magnetic well  
 \*BT1 closed configurations  
 RT internal ring devices

### MINIMUM-B CONFIGURATIONS

UF magnetic well  
 \*BT1 open configurations  
 RT ion rings  
 RT tlm configurations

### MINING

1996-01-24

NT1 auger mining  
 NT1 coal mining  
 NT1 hydraulic mining  
 NT1 oil sand mining  
 NT1 oil shale mining  
 NT1 solution mining  
 NT1 surface mining  
 NT1 underground mining  
 NT2 advance mining  
 NT2 caving mining  
 NT2 longwall mining  
 NT2 retreat mining  
 NT2 room and pillar mining  
 NT2 shortwall mining  
 NT2 slice mining  
 RT acid mine drainage  
 RT belt conveyors  
 RT contained explosions  
 RT cratering explosions  
 RT excavation  
 RT explosive fracturing  
 RT heading machines  
 RT industry  
 RT landslides  
 RT mine cars  
 RT mines  
 RT ore composition  
 RT overburden  
 RT resource exploitation  
 RT rock bursts  
 RT rock mechanics  
 RT shaft excavations  
 RT shield supports  
 RT underground explosions  
 RT uranium ores  
 RT working faces

### MINING ENGINEERING

INIS: 1993-02-18; ETDE: 1979-09-06

BT1 engineering  
 RT auger mining  
 RT coal mining  
 RT hydraulic mining  
 RT oil shale mining  
 RT surface mining  
 RT underground mining

**MINING EQUIPMENT**

1994-06-27

- BT1 equipment
- NT1 bucket wheel excavators
- NT1 cutting machines
  - NT2 cutter loaders
  - NT3 coal plows
  - NT3 continuous miners
  - NT3 heading machines
  - NT3 shearer loaders
- NT1 roof bolts
- RT auger mining
- RT chain conveyors
- RT conveyors
- RT draglines
- RT earthmoving equipment
- RT haulage equipment
- RT supports
- RT tunneling machines

**mining industry**

INIS: 1993-08-04; ETDE: 2002-03-28

USE mineral industry

**MINING LAWS**

1990-12-15

(Prior to December 1990, this descriptor was spelled MINING LAW.)

- BT1 laws
- NT1 surface mining acts
- RT mineral rights

**mining research method**

INIS: 2000-04-12; ETDE: 1977-03-04

USE desulfurization

**mining rights**

INIS: 2000-04-12; ETDE: 1979-07-24

USE mineral rights

**MINKOWSKI SPACE**

- \*BT1 mathematical space
- RT light cone
- RT lorentz transformations
- RT relativity theory

**MINNESOTA**

\*BT1 usa

RT mississippi river

**minnesota univ linac**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

USE linear accelerators

**MINORITY GROUPS**

INIS: 1999-04-30; ETDE: 1978-02-14

Coordinate with a descriptor for the geographical area involved.

- UF ethnic groups
- UF racial groups
- \*BT1 human populations
- NT1 american indians
- NT1 black americans
- NT1 elderly people
- NT1 handicapped people
- NT1 high income groups
- NT1 hispanic americans
- NT1 lapps
- NT1 low income groups
- NT1 oriental americans
- RT interest groups
- RT sociology
- RT us affirmative action program

**MINSK COMPUTERS**

BT1 computers

**MINT**

1999-02-25

Malaysian Institute for Nuclear Technology Research.

UF malaysian institute for nuclear energy research

\*BT1 malaysian organizations

**MINUS-PLUS RATIO**

UF charge ratio

UF plus-minus ratio

BT1 dimensionless numbers

RT electric charges

**MINUTES LIVING RADIOISOTOPES**

1997-02-07

\*BT1 radioisotopes

- NT1 actinium 222
- NT1 actinium 223
- NT1 actinium 230
- NT1 actinium 231
- NT1 actinium 232
- NT1 actinium 233
- NT1 aluminium 28
- NT1 aluminium 29
- NT1 americium 233
- NT1 americium 234
- NT1 americium 235
- NT1 americium 236
- NT1 americium 244
- NT1 americium 246
- NT1 americium 247
- NT1 americium 248
- NT1 americium 249
- NT1 antimony 111
- NT1 antimony 113
- NT1 antimony 114
- NT1 antimony 115
- NT1 antimony 116
- NT1 antimony 118
- NT1 antimony 120
- NT1 antimony 122
- NT1 antimony 124
- NT1 antimony 126
- NT1 antimony 128
- NT1 antimony 129
- NT1 antimony 130
- NT1 antimony 131
- NT1 antimony 132
- NT1 antimony 133
- NT1 argon 43
- NT1 argon 44
- NT1 arsenic 68
- NT1 arsenic 69
- NT1 arsenic 70
- NT1 arsenic 79
- NT1 astatine 201
- NT1 astatine 202
- NT1 astatine 203
- NT1 astatine 204
- NT1 astatine 205
- NT1 astatine 206
- NT1 astatine 220
- NT1 astatine 221
- NT1 barium 122
- NT1 barium 123
- NT1 barium 124
- NT1 barium 125
- NT1 barium 127
- NT1 barium 131
- NT1 barium 137
- NT1 barium 141
- NT1 barium 142
- NT1 berkelium 238
- NT1 berkelium 239
- NT1 berkelium 240
- NT1 berkelium 242
- NT1 berkelium 251
- NT1 berkelium 252

- NT1 berkelium 253
- NT1 berkelium 254
- NT1 bismuth 193
- NT1 bismuth 194
- NT1 bismuth 195
- NT1 bismuth 196
- NT1 bismuth 197
- NT1 bismuth 198
- NT1 bismuth 199
- NT1 bismuth 200
- NT1 bismuth 201
- NT1 bismuth 211
- NT1 bismuth 212
- NT1 bismuth 213
- NT1 bismuth 214
- NT1 bismuth 215
- NT1 bismuth 216
- NT1 bohrium 275
- NT1 bromine 72
- NT1 bromine 73
- NT1 bromine 74
- NT1 bromine 77
- NT1 bromine 78
- NT1 bromine 80
- NT1 bromine 82
- NT1 bromine 84
- NT1 bromine 85
- NT1 cadmium 100
- NT1 cadmium 101
- NT1 cadmium 102
- NT1 cadmium 103
- NT1 cadmium 104
- NT1 cadmium 105
- NT1 cadmium 111
- NT1 cadmium 118
- NT1 cadmium 119
- NT1 calcium 49
- NT1 californium 240
- NT1 californium 241
- NT1 californium 242
- NT1 californium 243
- NT1 californium 244
- NT1 californium 245
- NT1 californium 256
- NT1 carbon 11
- NT1 cerium 128
- NT1 cerium 129
- NT1 cerium 130
- NT1 cerium 131
- NT1 cerium 145
- NT1 cerium 146
- NT1 cesium 120
- NT1 cesium 121
- NT1 cesium 122
- NT1 cesium 123
- NT1 cesium 125
- NT1 cesium 126
- NT1 cesium 128
- NT1 cesium 130
- NT1 cesium 135
- NT1 cesium 138
- NT1 cesium 139
- NT1 cesium 140
- NT1 chlorine 34
- NT1 chlorine 38
- NT1 chlorine 39
- NT1 chlorine 40
- NT1 chromium 49
- NT1 chromium 55
- NT1 chromium 56
- NT1 cobalt 54
- NT1 cobalt 60
- NT1 cobalt 62
- NT1 copper 59
- NT1 copper 60
- NT1 copper 62
- NT1 copper 66
- NT1 copper 68
- NT1 copper 69

NT1 curium 233	NT1 holmium 153	NT1 lutetium 163
NT1 curium 234	NT1 holmium 154	NT1 lutetium 164
NT1 curium 235	NT1 holmium 155	NT1 lutetium 165
NT1 curium 236	NT1 holmium 156	NT1 lutetium 166
NT1 curium 237	NT1 holmium 157	NT1 lutetium 167
NT1 curium 251	NT1 holmium 158	NT1 lutetium 168
NT1 dubnium 264	NT1 holmium 159	NT1 lutetium 169
NT1 dubnium 265	NT1 holmium 160	NT1 lutetium 171
NT1 dubnium 266	NT1 holmium 162	NT1 lutetium 172
NT1 dysprosium 147	NT1 holmium 164	NT1 lutetium 178
NT1 dysprosium 148	NT1 holmium 168	NT1 lutetium 180
NT1 dysprosium 149	NT1 holmium 169	NT1 lutetium 181
NT1 dysprosium 150	NT1 holmium 170	NT1 lutetium 182
NT1 dysprosium 151	NT1 indium 103	NT1 lutetium 187
NT1 dysprosium 165	NT1 indium 104	NT1 magnesium 27
NT1 dysprosium 167	NT1 indium 105	NT1 manganese 50
NT1 dysprosium 168	NT1 indium 106	NT1 manganese 51
NT1 einsteinium 245	NT1 indium 107	NT1 manganese 52
NT1 einsteinium 246	NT1 indium 108	NT1 manganese 57
NT1 einsteinium 247	NT1 indium 109	NT1 manganese 58
NT1 einsteinium 248	NT1 indium 111	NT1 meitnerium 265
NT1 einsteinium 256	NT1 indium 112	NT1 meitnerium 279
NT1 element 112 283	NT1 indium 114	NT1 mendeleevium 251
NT1 erbium 154	NT1 indium 116	NT1 mendeleevium 252
NT1 erbium 155	NT1 indium 117	NT1 mendeleevium 253
NT1 erbium 156	NT1 indium 118	NT1 mendeleevium 254
NT1 erbium 157	NT1 indium 119	NT1 mendeleevium 255
NT1 erbium 159	NT1 indium 121	NT1 mendeleevium 258
NT1 erbium 173	NT1 iodine 115	NT1 mercury 186
NT1 erbium 174	NT1 iodine 117	NT1 mercury 187
NT1 europium 142	NT1 iodine 118	NT1 mercury 188
NT1 europium 143	NT1 iodine 119	NT1 mercury 189
NT1 europium 154	NT1 iodine 120	NT1 mercury 190
NT1 europium 158	NT1 iodine 122	NT1 mercury 191
NT1 europium 159	NT1 iodine 128	NT1 mercury 199
NT1 fermium 249	NT1 iodine 130	NT1 mercury 205
NT1 fermium 250	NT1 iodine 134	NT1 mercury 206
NT1 fluorine 17	NT1 iodine 136	NT1 molybdenum 101
NT1 francium 210	NT1 iridium 179	NT1 molybdenum 102
NT1 francium 211	NT1 iridium 180	NT1 molybdenum 103
NT1 francium 212	NT1 iridium 181	NT1 molybdenum 104
NT1 francium 221	NT1 iridium 182	NT1 molybdenum 88
NT1 francium 222	NT1 iridium 183	NT1 molybdenum 89
NT1 francium 223	NT1 iridium 192	NT1 molybdenum 91
NT1 francium 224	NT1 iridium 197	NT1 neodymium 132
NT1 francium 225	NT1 iridium 199	NT1 neodymium 133
NT1 francium 227	NT1 iron 53	NT1 neodymium 134
NT1 gadolinium 142	NT1 iron 61	NT1 neodymium 135
NT1 gadolinium 143	NT1 iron 62	NT1 neodymium 136
NT1 gadolinium 144	NT1 krypton 74	NT1 neodymium 137
NT1 gadolinium 145	NT1 krypton 75	NT1 neodymium 139
NT1 gadolinium 161	NT1 krypton 89	NT1 neodymium 141
NT1 gadolinium 162	NT1 lanthanum 125	NT1 neodymium 151
NT1 gadolinium 163	NT1 lanthanum 126	NT1 neodymium 152
NT1 gallium 64	NT1 lanthanum 127	NT1 neon 24
NT1 gallium 65	NT1 lanthanum 128	NT1 neptunium 229
NT1 gallium 70	NT1 lanthanum 129	NT1 neptunium 230
NT1 gallium 74	NT1 lanthanum 130	NT1 neptunium 231
NT1 gallium 75	NT1 lanthanum 131	NT1 neptunium 232
NT1 germanium 64	NT1 lanthanum 132	NT1 neptunium 233
NT1 germanium 67	NT1 lanthanum 134	NT1 neptunium 240
NT1 gold 185	NT1 lanthanum 136	NT1 neptunium 241
NT1 gold 186	NT1 lanthanum 143	NT1 neptunium 242
NT1 gold 187	NT1 lawrencium 260	NT1 neptunium 243
NT1 gold 188	NT1 lead 190	NT1 neptunium 244
NT1 gold 189	NT1 lead 191	NT1 niobium 85
NT1 gold 190	NT1 lead 192	NT1 niobium 86
NT1 gold 200	NT1 lead 193	NT1 niobium 87
NT1 gold 201	NT1 lead 194	NT1 niobium 88
NT1 hafnium 164	NT1 lead 195	NT1 niobium 94
NT1 hafnium 165	NT1 lead 196	NT1 niobium 98
NT1 hafnium 166	NT1 lead 197	NT1 niobium 99
NT1 hafnium 167	NT1 lead 199	NT1 nitrogen 13
NT1 hafnium 168	NT1 lead 201	NT1 nobelium 253
NT1 hafnium 169	NT1 lead 211	NT1 nobelium 255
NT1 hafnium 177	NT1 lead 213	NT1 nobelium 259
NT1 hassium 274	NT1 lead 214	NT1 osmium 175
NT1 holmium 150	NT1 lutetium 161	NT1 osmium 176
NT1 holmium 152	NT1 lutetium 162	NT1 osmium 177

NT1 osmium 178	NT1 radon 209	NT1 strontium 79
NT1 osmium 179	NT1 radon 212	NT1 strontium 81
NT1 osmium 180	NT1 radon 221	NT1 strontium 93
NT1 osmium 181	NT1 radon 223	NT1 strontium 94
NT1 osmium 190	NT1 radon 225	NT1 sulfur 37
NT1 osmium 195	NT1 radon 226	NT1 tantalum 167
NT1 osmium 196	NT1 rhenium 173	NT1 tantalum 168
NT1 osmium 197	NT1 rhenium 174	NT1 tantalum 169
NT1 oxygen 14	NT1 rhenium 175	NT1 tantalum 170
NT1 oxygen 15	NT1 rhenium 176	NT1 tantalum 171
NT1 palladium 109	NT1 rhenium 177	NT1 tantalum 172
NT1 palladium 111	NT1 rhenium 178	NT1 tantalum 178
NT1 palladium 113	NT1 rhenium 179	NT1 tantalum 182
NT1 palladium 114	NT1 rhenium 180	NT1 tantalum 185
NT1 palladium 96	NT1 rhenium 188	NT1 tantalum 186
NT1 palladium 97	NT1 rhenium 190	NT1 tantalum 187
NT1 palladium 98	NT1 rhenium 191	NT1 technetium 101
NT1 palladium 99	NT1 rhodium 100	NT1 technetium 102
NT1 phosphorus 30	NT1 rhodium 103	NT1 technetium 104
NT1 platinum 182	NT1 rhodium 104	NT1 technetium 105
NT1 platinum 183	NT1 rhodium 107	NT1 technetium 91
NT1 platinum 184	NT1 rhodium 108	NT1 technetium 92
NT1 platinum 185	NT1 rhodium 109	NT1 technetium 93
NT1 platinum 199	NT1 rhodium 94	NT1 technetium 94
NT1 platinum 201	NT1 rhodium 95	NT1 technetium 96
NT1 plutonium 232	NT1 rhodium 96	NT1 tellurium 112
NT1 plutonium 233	NT1 rhodium 97	NT1 tellurium 113
NT1 plutonium 235	NT1 rhodium 98	NT1 tellurium 114
NT1 polonium 198	NT1 rubidium 77	NT1 tellurium 115
NT1 polonium 199	NT1 rubidium 78	NT1 tellurium 131
NT1 polonium 200	NT1 rubidium 79	NT1 tellurium 133
NT1 polonium 201	NT1 rubidium 81	NT1 tellurium 134
NT1 polonium 202	NT1 rubidium 82	NT1 terbium 147
NT1 polonium 203	NT1 rubidium 84	NT1 terbium 148
NT1 polonium 218	NT1 rubidium 86	NT1 terbium 149
NT1 potassium 38	NT1 rubidium 88	NT1 terbium 150
NT1 potassium 44	NT1 rubidium 89	NT1 terbium 152
NT1 potassium 45	NT1 rubidium 90	NT1 terbium 162
NT1 potassium 46	NT1 ruthenium 107	NT1 terbium 163
NT1 praseodymium 131	NT1 ruthenium 108	NT1 terbium 164
NT1 praseodymium 132	NT1 ruthenium 92	NT1 terbium 165
NT1 praseodymium 133	NT1 ruthenium 93	NT1 thallium 188
NT1 praseodymium 134	NT1 ruthenium 94	NT1 thallium 189
NT1 praseodymium 135	NT1 rutherfordium 261	NT1 thallium 190
NT1 praseodymium 136	NT1 rutherfordium 263	NT1 thallium 191
NT1 praseodymium 138	NT1 samarium 138	NT1 thallium 192
NT1 praseodymium 140	NT1 samarium 139	NT1 thallium 193
NT1 praseodymium 142	NT1 samarium 140	NT1 thallium 194
NT1 praseodymium 144	NT1 samarium 141	NT1 thallium 206
NT1 praseodymium 146	NT1 samarium 143	NT1 thallium 207
NT1 praseodymium 147	NT1 samarium 155	NT1 thallium 208
NT1 praseodymium 148	NT1 samarium 157	NT1 thallium 209
NT1 praseodymium 149	NT1 samarium 158	NT1 thallium 210
NT1 promethium 136	NT1 scandium 49	NT1 thorium 225
NT1 promethium 137	NT1 scandium 50	NT1 thorium 226
NT1 promethium 138	NT1 seaborgium 270	NT1 thorium 233
NT1 promethium 139	NT1 seaborgium 271	NT1 thorium 235
NT1 promethium 140	NT1 selenium 68	NT1 thorium 236
NT1 promethium 141	NT1 selenium 70	NT1 thorium 237
NT1 promethium 152	NT1 selenium 71	NT1 thulium 156
NT1 promethium 153	NT1 selenium 73	NT1 thulium 157
NT1 promethium 154	NT1 selenium 79	NT1 thulium 158
NT1 protactinium 226	NT1 selenium 81	NT1 thulium 159
NT1 protactinium 227	NT1 selenium 83	NT1 thulium 160
NT1 protactinium 234	NT1 selenium 84	NT1 thulium 161
NT1 protactinium 235	NT1 silver 100	NT1 thulium 162
NT1 protactinium 236	NT1 silver 101	NT1 thulium 164
NT1 protactinium 237	NT1 silver 102	NT1 thulium 174
NT1 protactinium 238	NT1 silver 104	NT1 thulium 175
NT1 radium 213	NT1 silver 105	NT1 thulium 176
NT1 radium 227	NT1 silver 106	NT1 thulium 177
NT1 radium 229	NT1 silver 108	NT1 tin 106
NT1 radium 231	NT1 silver 111	NT1 tin 107
NT1 radium 232	NT1 silver 113	NT1 tin 108
NT1 radon 204	NT1 silver 115	NT1 tin 109
NT1 radon 205	NT1 silver 116	NT1 tin 111
NT1 radon 206	NT1 silver 117	NT1 tin 113
NT1 radon 207	NT1 silver 99	NT1 tin 123
NT1 radon 208	NT1 strontium 78	NT1 tin 125

NT1 tin 127  
 NT1 tin 128  
 NT1 tin 129  
 NT1 tin 130  
 NT1 tin 131  
 NT1 titanium 51  
 NT1 titanium 52  
 NT1 tungsten 170  
 NT1 tungsten 171  
 NT1 tungsten 172  
 NT1 tungsten 173  
 NT1 tungsten 174  
 NT1 tungsten 175  
 NT1 tungsten 179  
 NT1 tungsten 185  
 NT1 tungsten 189  
 NT1 tungsten 190  
 NT1 uranium 227  
 NT1 uranium 228  
 NT1 uranium 229  
 NT1 uranium 235  
 NT1 uranium 239  
 NT1 uranium 241  
 NT1 uranium 242  
 NT1 vanadium 47  
 NT1 vanadium 52  
 NT1 vanadium 53  
 NT1 xenon 117  
 NT1 xenon 118  
 NT1 xenon 119  
 NT1 xenon 120  
 NT1 xenon 121  
 NT1 xenon 127  
 NT1 xenon 135  
 NT1 xenon 137  
 NT1 xenon 138  
 NT1 ytterbium 158  
 NT1 ytterbium 159  
 NT1 ytterbium 160  
 NT1 ytterbium 161  
 NT1 ytterbium 162  
 NT1 ytterbium 163  
 NT1 ytterbium 165  
 NT1 ytterbium 167  
 NT1 ytterbium 179  
 NT1 ytterbium 180  
 NT1 yttrium 81  
 NT1 yttrium 83  
 NT1 yttrium 84  
 NT1 yttrium 86  
 NT1 yttrium 91  
 NT1 yttrium 94  
 NT1 yttrium 95  
 NT1 zinc 60  
 NT1 zinc 61  
 NT1 zinc 63  
 NT1 zinc 69  
 NT1 zinc 71  
 NT1 zinc 74  
 NT1 zirconium 81  
 NT1 zirconium 82  
 NT1 zirconium 84  
 NT1 zirconium 85  
 NT1 zirconium 89  
 RT half-life  
 RT lifetime

**MIOCENE EPOCH**

INIS: 1992-04-14; ETDE: 1977-10-20

\*BT1 tertiary period  
 RT geologic history

**miq**

USE maximum inhalation quantity

**MIR ORBITAL STATION**

INIS: 1989-10-30; ETDE: 1989-11-21

BT1 satellites  
 \*BT1 space vehicles

**MIR REACTOR**

UF *melekes-mir reactor*  
 \*BT1 experimental reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**mirror advanced reactor study**

INIS: 2000-04-12; ETDE: 1983-06-20

USE mars reactor

**mirror fusion test facility**

INIS: 2000-04-12; ETDE: 1977-10-19

USE mftf devices

**MIRROR NUCLEI**

BT1 nuclei  
 RT isobaric nuclei

**MIRROR RATIO**

INIS: 1975-08-20; ETDE: 1975-10-01

BT1 dimensionless numbers  
 RT magnetic fields  
 RT magnetic mirror configurations  
 RT magnetic mirrors

**MIRRORS**

1975-10-09

(From January 1975 until March 1996 FLAT

MIRRORS was a valid ETDE descriptor.)

UF *flat mirrors*  
 NT1 electrostatic mirrors  
 NT1 fresnel reflectors  
 NT1 heat mirrors  
 NT1 laser mirrors  
 RT optical properties  
 RT optical systems  
 RT parabolic reflectors  
 RT reflection  
 RT solar concentrators  
 RT solar reflectors  
 RT telescopes

**mirrors (magnetic)**

USE magnetic mirrors

**MIS SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

UF *metal-insulator-semiconductor solar cells*  
 \*BT1 solar cells  
 RT mis transistors  
 RT schottky barrier solar cells

**MIS TRANSISTORS**

1997-06-17

*Metal Insulator Silicon transistors.*

\*BT1 transistors  
 RT mis solar cells

**MISCH METAL**

\*BT1 cerium base alloys  
 \*BT1 lanthanum alloys

**miscibility**

INIS: 2000-04-12; ETDE: 1979-07-18

USE solubility

**miscible flooding**

INIS: 1992-01-15; ETDE: 1976-03-11

USE miscible-phase displacement

**MISCIBLE-PHASE DISPLACEMENT**

INIS: 1992-01-15; ETDE: 1976-03-11

UF *miscible flooding*  
 BT1 fluid injection  
 NT1 carbon dioxide injection  
 NT1 microemulsion flooding  
 RT enhanced recovery  
 RT petroleum

**MISCO METAL**

2000-04-12

\*BT1 chromium alloys  
 \*BT1 iron alloys  
 \*BT1 nickel alloys

**misgurnus**

USE fishes

**MISONIDAZOLE**

INIS: 1981-08-06; ETDE: 1981-01-09

UF *2-nitroimidazole*

UF *ro-07-0582*

\*BT1 alcohols  
 \*BT1 antineoplastic drugs  
 \*BT1 imidazoles  
 \*BT1 nitro compounds  
 \*BT1 radiosensitizers  
 RT chemotherapy

**MISSILE LAUNCHING SITES**

INIS: 2000-04-12; ETDE: 1980-01-15

RT launching  
 RT missiles  
 RT rockets

**MISSILE PROTECTION**

1975-10-23

RT impact shock  
 RT reactor accidents  
 RT reactor protection systems  
 RT reactor safety

**MISSILE SILOS**

2000-04-12

RT missiles  
 RT national defense

**MISSILES**

NT1 cruise missiles  
 RT ammunition  
 RT flight testing  
 RT launching  
 RT missile launching sites  
 RT missile silos  
 RT propulsion systems  
 RT reentry  
 RT reentry vehicles  
 RT rockets  
 RT thrusters

**MISSING MASS**

*The unobserved mass resulting from neutral particles in a particle-particle interaction.*

BT1 mass  
 RT missing-mass spectra  
 RT missing-mass spectrometers  
 RT neutral particles

**MISSING-MASS SPECTRA**

BT1 spectra  
 RT abc effect  
 RT missing mass  
 RT missing-mass spectrometers

**MISSING-MASS SPECTROMETERS**

\*BT1 spectrometers  
 RT missing mass  
 RT missing-mass spectra  
 RT neutral particles

**mission analysis**

INIS: 2000-04-12; ETDE: 1979-12-10

*A systematic approach to evaluation of the potential feasible applications of a generic new technology. See also MANAGEMENT. (Prior to March 1997 this was a valid ETDE descriptor.)*

USE feasibility studies  
 USE technology utilization

**MISSISSIPPI**

- \*BT1 usa
- RT chattanooga formation
- RT mississippi river
- RT us gulf coast

**MISSISSIPPI RIVER**

- \*BT1 rivers
- RT arkansas
- RT illinois
- RT iowa
- RT kentucky
- RT louisiana
- RT minnesota
- RT mississippi
- RT mississippi river basin
- RT missouri
- RT tennessee
- RT wisconsin

**MISSISSIPPI RIVER BASIN**

INIS: 1992-01-14; ETDE: 1977-04-12

- BT1 watersheds
- RT mississippi river

**mississippian period**

INIS: 1992-05-22; ETDE: 1977-10-19

(Prior to April 1990 this was a valid ETDE descriptor.)

- USE carboniferous period

**MISSOURI**

- \*BT1 usa
- RT chattanooga formation
- RT kansas city plant
- RT mississippi river
- RT missouri river
- RT missouri river basin
- RT white river basin

**MISSOURI RIVER**

1997-06-17

- \*BT1 rivers
- RT iowa
- RT kansas
- RT missouri
- RT missouri river basin
- RT montana
- RT nebraska
- RT north dakota
- RT south dakota

**MISSOURI RIVER BASIN**

INIS: 2000-04-12; ETDE: 1977-06-24

- BT1 watersheds
- RT missouri
- RT missouri river

**missouri school of mines reactor**

INIS: 1993-11-09; ETDE: 2002-03-28

- USE umrr reactor

**missouri university/columbia research reactor**

1993-11-09

- USE murr reactor

**missouri university/rolla research reactor**

1993-11-09

- USE umrr reactor

**MIST EXTRACTORS**

INIS: 2000-04-12; ETDE: 1977-03-08

Devices that remove liquid mist or droplets from a gas stream via impingement, flow-direction change, velocity change, centrifugal force, filters, or coalescing packs.

- UF entrainment separators

- \*BT1 extraction apparatuses

**MIST-LIFT CYCLES**

INIS: 2000-04-12; ETDE: 1980-08-12

- UF otec mist-lift cycle

- SF beck cycle

- \*BT1 lift cycles

**MIT BATES LINAC**

INIS: 1977-11-21; ETDE: 1978-03-08

Bates Electron Linear Accelerator Facility at MIT.

- UF bates linac mit

- \*BT1 linear accelerators

**MITES**

- \*BT1 arachnids

- RT disease vectors

- RT parasites

- RT pest control

**MITIGATION**

INIS: 1985-09-09; ETDE: 1983-07-20

Abatement or diminution of something painful, injurious, severe, or calamitous.

- RT control

- RT modifications

- RT optimization

- RT pollution abatement

**MITOCHONDRIA**

- BT1 cell constituents

- RT cytoplasm

- RT krebs cycle

- RT subcellular distribution

**MITOGENS**

INIS: 1981-10-15; ETDE: 1978-11-14

Substances that induce cell division or stimulate cells to undergo blastogenic activity.

- NT1 erythropoietin

- NT1 growth factors

- NT2 lymphokines

- NT3 interferon

- NT1 phytohemagglutinin

- RT cell division

- RT immunology

- RT response modifying factors

- RT stimulation

- RT tissue extracts

**MITOMYCIN**

- \*BT1 antibiotics

- \*BT1 antimitotic drugs

- \*BT1 antineoplastic drugs

**MITOSIS**

1995-01-27

- UF anaphase

- UF metaphase

- UF prophase

- UF telophase

- BT1 cell division

- RT antimitotic drugs

- RT centromeres

- RT chromosomes

- RT concanavalin a

- RT crossing-over

- RT human chromosomes

- RT mitotic delay

- RT mitotic index

- RT phytohemagglutinin

**MITOTIC DELAY**

- RT mitosis

**MITOTIC INDEX**

- RT mitosis

**MITR REACTOR**

Massachusetts Institute of Technology, Nuclear Research Lab., Cambridge Massachusetts, USA.

- UF massachusetts institute of technology reactor

- \*BT1 enriched uranium reactors

- \*BT1 heavy water cooled reactors

- \*BT1 heavy water moderated reactors

- \*BT1 research reactors

- \*BT1 tank type reactors

- \*BT1 thermal reactors

- \*BT1 training reactors

**mius (modular integrated utility systems)**

INIS: 2000-04-12; ETDE: 2005-02-10

(Prior to January 2005 MIUS was a valid descriptor.)

- USE modular integrated utility systems

**MIXED BED ION EXCHANGERS**

- \*BT1 ion exchange materials

**MIXED CARBIDE FUELS**

INIS: 1982-09-21; ETDE: 1982-02-23

Index also the specific carbides if important.

- \*BT1 nuclear fuels

- \*BT1 solid fuels

- RT plutonium carbides

- RT uranium carbides

**mixed-function oxidase systems**

INIS: 2000-04-12; ETDE: 1980-01-15

(Prior to January 1981, this was a valid ETDE descriptor.)

- USE mixed-function oxidases

**MIXED-FUNCTION OXIDASES**

INIS: 2000-04-12; ETDE: 1981-01-30

- UF mixed-function oxidase systems

- \*BT1 oxygenases

- RT aryl 4-monooxygenase

- RT cytochrome oxidase

- RT cytochromes

- RT microsomes

**mixed media**

- USE mixed solvents

**MIXED NITRIDE FUELS**

1988-10-10

Uranium nitride mixed with plutonium nitride or other nitrides. Index other nitrides if important.

- \*BT1 nuclear fuels

- \*BT1 solid fuels

- RT ceramics

- RT plutonium nitrides

- RT uranium nitrides

**MIXED OXIDE FUEL FABRICATION PLANTS**

1994-08-12

(Until August 1994 this descriptor was spelled MIXED OXIDE FUEL PLANT.)

- UF mixed oxide fuel plant

- UF uranium oxide fuel plant

- \*BT1 fuel fabrication plants

**mixed oxide fuel plant**

INIS: 1994-08-12; ETDE: 2002-03-28

- USE mixed oxide fuel fabrication plants

**MIXED OXIDE FUELS**

INIS: 1980-04-02; ETDE: 1980-05-07

Uranium dioxide mixed with other oxide(s); index also the other oxide(s) if important.

- \*BT1 nuclear fuels

- \*BT1 solid fuels

- RT ceramics



**MIXED SOLVENTS**

- UF *mixed media*  
 \*BT1 mixtures  
 BT1 solvents

**MIXED SPECTRUM REACTORS**

- UF *fast-mixed spectrum reactor*  
 BT1 reactors  
 NT1 acpr reactor  
 NT1 br-3-vn reactor  
 NT1 browns ferry-1 reactor  
 NT1 browns ferry-2 reactor  
 NT1 browns ferry-3 reactor  
 NT1 diorit reactor  
 NT1 nsrr reactor  
 NT1 omre reactor  
 NT1 rpt reactor

**MIXED STATE**

1994-07-01

*A state of partial penetration of magnetic fields in orderly arrays of magnetic flux in vortices, usually thought of as a state of Type-II superconductivity only.*

- RT superconductivity

**MIXER-SETTLERS**

- \*BT1 extraction apparatuses  
 RT laboratory equipment  
 RT mixers  
 RT mixing

**MIXERS**

INIS: 1992-09-04; ETDE: 1976-01-23

- UF *blenders*  
 SF *mullers*  
 \*BT1 materials handling equipment  
 RT mixer-settlers

**MIXING**

*Not for the concept covered by CONFIGURATION MIXING.*

- UF *blending*  
 RT aeration  
 RT diffusion  
 RT mixer-settlers  
 RT mixtures  
 RT solubility  
 RT stirring  
 RT turbulence

**mixing (genetic)**

- USE hybridization

**MIXING HEAT**

- UF *heat of mixing*  
 \*BT1 enthalpy  
 RT solution heat

**mixing matrix (kobayashi-maskawa)**

INIS: 1984-01-18; ETDE: 2002-03-28

- USE kobayashi-maskawa matrix

**MIXING RATIO**

- BT1 dimensionless numbers  
 RT branching ratio  
 RT decay  
 RT energy-level transitions  
 RT multipolarity  
 RT multipoles  
 RT neutrino oscillation  
 RT particle production  
 RT weinberg angle

**MIXTURES**

- BT1 dispersions  
 NT1 binary mixtures  
 NT1 homogeneous mixtures  
 NT2 solutions  
 NT3 aqueous solutions  
 NT3 fuel solutions  
 NT3 hypertonic solutions

- NT3 isotonic solutions  
 NT3 leachates  
 NT3 process solutions  
 NT3 solid solutions  
 NT1 mixed solvents  
 NT1 slurries  
 NT2 fuel slurries  
 RT compatibility  
 RT mixing

**ML-1 REACTOR**

2000-04-12

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1964.*

- UF *mobile low power plant-1*  
 \*BT1 enriched uranium reactors  
 \*BT1 mobile reactors  
 \*BT1 nitrogen cooled reactors  
 \*BT1 power reactors  
 \*BT1 water moderated reactors

**mm-0011**

INIS: 2000-04-12; ETDE: 1978-12-20

- USE nickel base alloys

**mms**

INIS: 1985-07-22; ETDE: 1976-05-17

*(Prior to August 1985 this was a valid descriptor.)*

- USE methyl methanesulfonate

**mn-21**

INIS: 2000-04-12; ETDE: 1978-12-20

- USE alloy-mn-21

**MNR REACTOR**

*McMaster Univ., Hamilton, Ontario, Canada.*

- UF *mc master university nuclear reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**mns reactor**

1991-02-11

*(Prior to March 2004 this was a valid descriptor.)*

- USE mnsr-ciae reactor

**MNSR-CIAE REACTOR**

2004-03-15

*CIAE, Beijing, China.*

*(Prior to March 2004 the descriptor MNS REACTOR was used for this reactor.)*

- UF *beijing miniature neutron source reactor*  
 UF *mns reactor*  
 \*BT1 mnsr type reactors  
 RT ciae

**MNSR-SD REACTOR**

2004-03-15

*Research Institute of Geological Science, Shandong, China.*

- UF *shandong miniature neutron source reactor*  
 \*BT1 mnsr type reactors

**MNSR-SH REACTOR**

2004-03-15

*Shanghai Testing and Research Institute, China.*

- UF *shanghai miniature neutron source reactor*  
 \*BT1 mnsr type reactors

**MNSR-SZ REACTOR**

2004-03-15

*Shenzen Univ., China.*

- UF *shenzen miniature neutron source reactor*  
 \*BT1 mnsr type reactors

**MNSR TYPE REACTORS**

2004-03-15

- UF *miniature neutron source reactors*  
 \*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
 NT1 gharr-1 reactor  
 NT1 mnsr-ciae reactor  
 NT1 mnsr-sd reactor  
 NT1 mnsr-sh reactor  
 NT1 mnsr-sz reactor  
 NT1 nirr-1 reactor  
 NT1 parr-2 reactor  
 NT1 srr-1 reactor

**mnu**

INIS: 2000-04-12; ETDE: 1980-07-23

- USE methyl nitrosourea

**mo-re 1**

INIS: 2000-04-12; ETDE: 1979-08-09

- USE alloy-mo-re-1

**mo-re 2**

INIS: 2000-04-12; ETDE: 1979-10-23

- USE alloy-mo-re-2

**MOATA REACTOR**

*Australian Atomic Energy Commission Research Establishment, Lucas Heights, Australia.*

- UF *australian moata reactor*  
 \*BT1 argonaut type reactors  
 \*BT1 research reactors  
 \*BT1 training reactors

**MOBIL M-GASOLINE PROCESS**

INIS: 2000-04-12; ETDE: 1976-12-16

*One-step catalytic conversion of methanol to gasoline. Crude methanol is produced from coal gasification synthesis gas or natural gas.*

- RT gasoline  
 RT gasoline plants  
 RT synthetic fuels  
 RT synthetic petroleum

**MOBILE HOMES**

2000-04-12

- \*BT1 residential buildings  
 RT households  
 RT houses  
 RT prefabricated buildings  
 RT residential sector  
 RT vehicles

**mobile low power plant-1**

2000-04-12

- USE ml-1 reactor

**MOBILE POLLUTANT SOURCES**

INIS: 1992-03-09; ETDE: 1978-04-05

*Use for general articles when sources are not named. See also specific mobile sources e.g., AUTOMOBILES.*

- BT1 pollution sources  
 RT air pollution  
 RT point pollutant sources  
 RT pollution  
 RT stationary pollutant sources

**MOBILE REACTORS**

*Designed to be movable while in operation.*

- SF *710 reactor*  
 BT1 reactors  
 NT1 mh-1a reactor  
 NT1 ml-1 reactor  
 NT1 slc prototype reactor  
 NT1 space power reactors

- NT2** snap reactors  
**NT3** snap 10 reactor  
**NT4** s10fs-1 reactor  
**NT4** s10fs-3 reactor  
**NT4** s10fs-4 reactor  
**NT3** snap 2 reactor  
**NT4** s2ds reactor  
**NT3** snap 50 reactor  
**NT3** snap 8 reactor  
**NT4** s8dr reactor  
**NT4** s8er reactor  
**NT2** space propulsion reactors  
**NT3** kiwi reactors  
**NT4** kiwi-tnt reactor  
**NT3** nerva reactor  
**NT3** nrx-a1 reactor  
**NT3** nrx-a2 reactor  
**NT3** nrx-a3 reactor  
**NT3** nrx-a4-est reactor  
**NT3** nrx-a5 reactor  
**NT3** nrx-a6 reactor  
**NT3** nrx-a7 reactor  
**NT3** pewee-1 reactor  
**NT3** pewee-2 reactor  
**NT3** pewee-3 reactor  
**NT3** pewee-4 reactor  
**NT3** phoebus-1a reactor  
**NT3** phoebus-1b reactor  
**NT3** phoebus-2a reactor  
**NT3** rover reactors  
**NT3** twmr reactor  
**NT3** xe-2 reactor  
*RT* thermionic reactors

**MOBILITY**

*For material movement use TRANSPORT.*

- NT1** carrier mobility  
**NT1** hole mobility  
**NT1** particle mobility  
**NT2** electron mobility  
**NT2** ion mobility

**MOCHOVCE-1 REACTOR**

*INIS: 1984-10-19; ETDE: 1984-11-06*

- \*BT1 wwer type reactors

**MOCHOVCE-2 REACTOR**

*1994-09-30*

- \*BT1 wwer type reactors

**MOCHOVCE RADIOACTIVE WASTE REPOSITORY**

*2002-12-17*

*UF national radioactive waste repository in mochovce*

*UF republikove uloziste radioaktivnych odpadov v mochovciach*

- \*BT1 radioactive waste facilities

**MOCKUP**

- BT1** structural models  
**NT1** phantoms  
*RT* biological models  
*RT* functional models  
*RT* mathematical models  
*RT* microcosms  
*RT* pilot plants  
*RT* scale models  
*RT* simulators  
*RT* test facilities

**MOCTEZUMITE**

*2000-04-12*

- \*BT1 oxide minerals  
\*BT1 uranium minerals  
*RT* lead oxides  
*RT* tellurium oxides  
*RT* uranium oxides

**MODE CONTROL**

*INIS: 1984-05-28; ETDE: 1978-03-08*

- BT1** control  
*RT* lasers  
*RT* mode selection  
*RT* oscillation modes  
*RT* wave propagation

**MODE CONVERSION**

*INIS: 1991-03-22; ETDE: 1991-04-09*

*Transformation of an electromagnetic wave from one mode of propagation to another.*

- RT* oscillation modes  
*RT* plasma heating  
*RT* resonance  
*RT* wave propagation

**MODE LOCKING**

- RT* lasers  
*RT* mode selection

**MODE RATIONAL SURFACES**

*INIS: 1991-03-22; ETDE: 1991-04-09*

- UF rational surfaces*  
\*BT1 magnetic surfaces  
*RT* stellarators  
*RT* tokamak devices

**MODE SELECTION**

*INIS: 1992-08-11; ETDE: 1978-02-14*

- BT1** tuning  
*RT* frequency selection  
*RT* lasers  
*RT* mode control  
*RT* mode locking  
*RT* oscillation modes

**modeling**

*INIS: 1976-09-06; ETDE: 2002-03-28*

- USE simulation

**models (atomic)**

- USE atomic models

**models (biological)**

- USE biological models

**models (cosmological)**

- USE cosmological models

**models (crystal)**

- USE crystal models

**models (flow)**

- USE flow models

**models (functional)**

- USE functional models

**models (linear absorption)**

*INIS: 1976-02-11; ETDE: 2002-03-28*

- USE linear absorption models

**models (mathematical)**

- USE mathematical models

**models (nuclear)**

- USE nuclear models

**models (optical)**

- USE optical models

**models (organizational)**

*INIS: 1975-11-07; ETDE: 1975-12-16*

- USE organizational models

**models (particle)**

- USE particle models

**models (plasma)**

- USE plasma simulation

**models (scale)**

*INIS: 1980-07-24; ETDE: 1980-08-12*

- USE scale models

**models (shell)**

- USE shell models

**models (star)**

*INIS: 1975-10-23; ETDE: 1975-12-16*

- USE star models

**models (statistical)**

- USE statistical models

**models (structural)**

- USE structural models

**MODERATELY ENRICHED URANIUM**

*5 - 80 per cent.*

- \*BT1 enriched uranium

**MODERATING DETECTORS**

- \*BT1 neutron detectors  
**NT1** bonner sphere detectors  
**NT1** long counters  
*RT* activation detectors  
*RT* bf3 counters

**MODERATING RATIO**

- BT1** dimensionless numbers  
*RT* moderators

**MODERATOR-FUEL RATIO**

- BT1** dimensionless numbers  
*RT* moderators

**MODERATOR PELLETS**

*INIS: 1975-09-01; ETDE: 1975-10-01*

- BT1** pellets  
*RT* moderators  
*RT* pelletizing

**MODERATORS**

*See also descriptors for specific moderator materials.*

- NT1** hydride moderators  
**NT1** hydroxide moderators  
**NT1** organic moderators  
*RT* beryllium  
*RT* beryllium alloys  
*RT* beryllium compounds  
*RT* beryllium oxides  
*RT* configuration control  
*RT* graphite  
*RT* heavy water  
*RT* moderating ratio  
*RT* moderator-fuel ratio  
*RT* moderator pellets  
*RT* neutron slowing-down theory  
*RT* reactor cores  
*RT* reactor materials  
*RT* sigma piles  
*RT* thermal columns  
*RT* water

**modes (optical)**

- USE optical modes

**modes (oscillation)**

- USE oscillation modes

**modes (single-particle)**

- USE single-particle modes

**MODIFICATIONS**

*1985-01-17*

- RT* construction  
*RT* corrections  
*RT* maintenance  
*RT* mitigation  
*RT* optimization

RT retrofitting  
 RT specifications  
 RT variations

**MODIFIED IN-SITU PROCESSES**

2000-04-12

*Combination of some underground mining and surface retorting with in-situ retorting techniques.*

NT1 integrated in-situ process  
 NT1 oxy modified in-situ process  
 NT1 rise  
 RT in-situ processing  
 RT retorting  
 RT underground mining

**modified surface delta potential**

INIS: 1975-09-09; ETDE: 1976-05-19

USE surface delta potential

**modular cogeneration power plants**

INIS: 2000-04-12; ETDE: 1985-05-31

SEE dual-purpose power plants

**modular construction**

INIS: 1983-09-06; ETDE: 1979-10-23

USE modular structures

**MODULAR INTEGRATED UTILITY SYSTEMS**

INIS: 2000-04-12; ETDE: 2005-02-10

*Small plant located within housing developments or communities to provide all utility services.*

(Prior to January 2005 MIUS was used for this concept.)

UF *mius (modular integrated utility systems)*

\*BT1 integrated energy utility systems  
 RT central heating plants  
 RT ices program  
 RT public utilities  
 RT total energy systems

**MODULAR STRUCTURES**

INIS: 1983-09-06; ETDE: 1979-10-23

UF *modular construction*  
 RT camac system  
 RT construction  
 RT construction industry  
 RT distributed structures  
 RT energy facilities  
 RT fabrication  
 RT industrial plants  
 RT mechanical structures  
 RT nuclear instrument modules

**MODULATION**

NT1 frequency modulation  
 RT periodicity  
 RT variations

**MOELLER SCATTERING**

\*BT1 elastic scattering  
 RT bhabha scattering  
 RT quantum electrodynamics

**MOESSBAUER EFFECT**

UF *moessbauer spectroscopy*  
 RT recoilless fraction  
 RT recoils  
 RT resonance fluorescence  
 RT structural chemical analysis

**MOESSBAUER SPECTROMETERS**

\*BT1 gamma spectrometers

**moessbauer spectroscopy**

INIS: 1984-04-04; ETDE: 2002-03-28

USE moessbauer effect

**MOHAWK RIVER**

\*BT1 rivers  
 RT new york

**mohole project**

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE earth crust  
 SEE earth mantle

**MOISTURE**

1993-03-09

(Until March 1993, this concept was indexed by HUMIDITY.)

SF *water content*  
 NT1 humidity  
 RT moisture gages  
 RT water

**MOISTURE GAGES**

(From September 1976 till March 1997 TENSIO METERS was a valid ETDE descriptor.)

UF *neutron moisture meters*  
 SF *tensiometers*  
 BT1 measuring instruments  
 RT humidity  
 RT hygrometry  
 RT moisture  
 RT neutron probes  
 RT radiometric gages

**moisture separators**

INIS: 2000-04-12; ETDE: 1975-08-19

USE vapor separators

**MOLASSES**

INIS: 1992-05-12; ETDE: 1977-04-12

UF *syrups*  
 BT1 food  
 RT animal feeds  
 RT saccharides  
 RT sugar cane

**molдавites**

USE tektites

**MOLDING**

UF *molding materials*  
 BT1 fabrication  
 NT1 briquetting  
 NT1 pelletizing  
 RT casting  
 RT casting molds  
 RT materials working

**molding materials**

INIS: 2000-04-12; ETDE: 1976-11-17

(Prior to March 1997 this was a valid ETDE descriptor.)

USE materials  
 USE molding

**MOLDOVA**

INIS: 1997-08-20; ETDE: 1993-04-08

(Until January 1993, this was indexed by USSR.)

SF *soviet union*  
 SF *union of soviet socialist republics*  
 SF *ussr*  
 \*BT1 eastern europe  
 RT black sea

**molds**

USE fungi

**molds (casting)**

USE casting molds

**MOLECULAR BEAM EPITAXY**

INIS: 1994-06-27; ETDE: 1982-10-05

*Epitaxy induced by molecular beams for the production of thin films.*

UF *mbe*

\*BT1 epitaxy  
 RT crystal growth

**MOLECULAR BEAMS**

BT1 beams  
 RT molecules

**MOLECULAR BIOLOGY**

RT biological effects  
 RT biological evolution  
 RT biological pathways  
 RT biophysics  
 RT biosynthesis  
 RT biotechnology  
 RT dna sequencing  
 RT genetic engineering  
 RT metabolism  
 RT molecules  
 RT physiology  
 RT radiobiology  
 RT strand breaks

**MOLECULAR CLUSTERS**

INIS: 1992-10-19; ETDE: 1992-11-04

RT cluster beams

**MOLECULAR CRYSTALS**

BT1 crystals

**MOLECULAR DYNAMICS METHOD**

1996-04-16

BT1 calculation methods  
 RT computerized simulation  
 RT many-body problem

**molecular fluorescence spectroscopy**

2000-04-12

USE fluorescence spectroscopy

**MOLECULAR ION BEAM INJECTION**

\*BT1 ion beam injection

**MOLECULAR IONS**

INIS: 1975-11-11; ETDE: 1975-12-16

*Coordinate the above descriptor with a descriptor for the specific ion.*

UF *ions (molecular)*

\*BT1 ions  
 NT1 hydrogen ions 2 plus  
 NT1 hydrogen ions 3 plus  
 NT1 oxonium ions

**MOLECULAR MODELS**

BT1 mathematical models  
 NT1 thermodynamic molecular model

**MOLECULAR ORBITAL METHOD**

BT1 calculation methods  
 RT electronic structure  
 RT lcao method  
 RT molecular structure

**molecular orbital model**

USE atomic models  
 USE molecules

**MOLECULAR SIEVE PROCESS**

2000-04-12

*Process to dehydrate and to remove carbon dioxide and sulfur compounds from natural gas.*

\*BT1 desulfurization

**MOLECULAR SIEVES**

BT1 adsorbents  
 RT adsorption

**MOLECULAR STRUCTURE**

- UF* structure (molecular)  
**NT1** amino acid sequence  
*RT* biological repair  
*RT* bond lengths  
*RT* configuration interaction  
*RT* conformational changes  
*RT* dissociation energy  
*RT* dna sequencing  
*RT* helical configuration  
*RT* interatomic distances  
*RT* lcao method  
*RT* matrix isolation  
*RT* molecular orbital method  
*RT* molecules  
*RT* nucleic acid denaturation  
*RT* optical activity  
*RT* photoelectron spectroscopy  
*RT* photoreactivation  
*RT* protein denaturation  
*RT* protein structure  
*RT* stereochemistry  
*RT* structural chemical analysis  
*RT* structure-activity relationships

**MOLECULAR WEIGHT**

- RT* cryoscopy  
*RT* depolymerization  
*RT* molecules  
*RT* osmosis  
*RT* polymerization  
*RT* weight

**MOLECULE COLLISIONS**

- BT1** collisions  
**NT1** atom-molecule collisions  
**NT1** electron-molecule collisions  
**NT1** ion-molecule collisions  
**NT1** molecule-molecule collisions  
**NT1** photon-molecule collisions  
**NT1** positron-molecule collisions

**MOLECULE-MOLECULE COLLISIONS**

- \***BT1** molecule collisions

**MOLECULES**

- UF* molecular orbital model  
*UF* polyatomic molecules  
**NT1** mesic molecules  
**NT2** muonic molecules  
*RT* jahn-teller effect  
*RT* kihara potential  
*RT* matrix isolation  
*RT* micellar systems  
*RT* molecular beams  
*RT* molecular biology  
*RT* molecular structure  
*RT* molecular weight  
*RT* van der waals forces

**MOLIERE THEORY**

- RT* multiple scattering

**MOLLIER DIAGRAMS**

1999-08-18

- \***BT1** diagrams  
*RT* steam  
*RT* thermodynamics

**MOLLUSCS**

- UF* gasteropods  
**BT1** aquatic organisms  
\***BT1** invertebrates  
**NT1** clams  
**NT1** mussels  
**NT1** oysters  
**NT1** snails  
*RT* benthos

**MOLNIYA SATELLITES**

- BT1** satellites

**MOLTEN CARBONATE FUEL CELLS**

- INIS*: 1992-02-21; *ETDE*: 1980-06-23  
(Prior to June 1980 this information was indexed by the descriptors HIGH-TEMPERATURE FUEL CELLS + MOLTEN SALTS + CARBONATES.)  
\***BT1** high-temperature fuel cells

**molten carbonate process**

- INIS*: 2000-04-12; *ETDE*: 1976-08-04  
*Process for removal of sulfur dioxide from flue gas using ternary eutectic alkali metal carbonate melt; reduction of sulfite and sulfate reaction products with petroleum coke; and reaction of resulting sulfide with steam and carbon dioxide to regenerate carbonate and form hydrogen sulfide, which can be converted to sulfur.*  
(Prior to March 1994, this was a valid *ETDE* descriptor.)  
**USE** desulfurization

**MOLTEN IRON PUREGAS PROCESS**

- INIS*: 2000-04-12; *ETDE*: 1985-06-04  
*Gasification of coal using oxygen, top and bottom blowing, and a liquid iron bath to produce very pure synthesis gas.*  
\***BT1** coal gasification

**MOLTEN METAL-WATER REACTIONS**

- INIS*: 1977-09-06; *ETDE*: 1977-04-12  
*Combined physical-chemical explosions produced by sudden contact between high temperature metals and water.*  
*UF* liquid metal-water reactions  
*UF* liquid sodium-water reactions  
*UF* metal-water reactions  
*UF* sodium-water reactions  
*UF* sodium(liquid)-water reactions  
*RT* chemical reactions  
*RT* explosions  
*RT* fuel-coolant interactions  
*RT* reactor accidents  
*RT* reactor safety

**MOLTEN SALT COAL GASIFICATION PROCESS**

- INIS*: 2000-04-12; *ETDE*: 1975-10-01  
*Crushed and dried coal in preheated steam-oxygen stream is fed with sodium carbonate into gasifier. Raw gas (330 btu/scf) is shifted, purified, methanated, and dehydrated.*  
*UF* atomics international molten salt process  
*UF* molten salt process (atomic international)  
*SF* rockwell international process  
\***BT1** coal gasification  
*RT* molten salt waste gasification process

**molten salt coolants**

- USE** molten salts

**MOLTEN SALT COOLED REACTORS**

- \***BT1** molten salt reactors  
**NT1** msre reactor

**MOLTEN SALT FUELED REACTORS**

- \***BT1** fluid fueled reactors  
\***BT1** molten salt reactors

**MOLTEN SALT FUELS**

- UF* fused salt fuels  
\***BT1** liquid fuels  
\***BT1** nuclear fuels  
*RT* molten salt reactors

**molten salt process (atomic international)**

- INIS*: 2000-04-12; *ETDE*: 1975-10-01  
**USE** molten salt coal gasification process

**molten salt process (kellogg)**

- 2000-04-12  
**USE** kellogg process

**molten salt reactor experiment**

- USE** msre reactor

**MOLTEN SALT REACTORS**

- BT1** reactors  
**NT1** molten salt cooled reactors  
**NT2** msre reactor  
**NT1** molten salt fueled reactors  
*RT* metal transfer process  
*RT* molten salt fuels  
*RT* reductive extraction

**MOLTEN SALT WASTE GASIFICATION PROCESS**

- INIS*: 1996-04-18; *ETDE*: 1981-07-18  
*SF* rockwell international process  
\***BT1** waste processing  
*RT* molten salt coal gasification process  
*RT* molten salts

**MOLTEN SALTS**

- UF* fused salts  
*UF* molten salt coolants  
**BT1** salts  
**NT1** flibe  
*RT* coolants  
*RT* molten salt waste gasification process

**MOLTING**

- INIS*: 1981-07-06; *ETDE*: 1977-09-19  
*The shedding of an outer covering as a part of a periodic process of growth.*  
*UF* moulting  
*RT* animal growth

**MOLTOX OXYGEN PROCESS**

- INIS*: 2000-04-12; *ETDE*: 1986-11-20  
*Air products and chemicals process for oxygen production.*  
*RT* oxygen plants

**moluranite**

- 1996-07-18  
(Until July 1996 this was a valid descriptor.)  
**USE** oxide minerals  
**USE** uranium minerals

**MOLYBDATES**

- Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
\***BT1** molybdenum compounds  
**BT1** oxygen compounds  
*RT* molybdenum oxides

**MOLYBDENUM**

- \***BT1** refractory metals  
\***BT1** transition elements

**MOLYBDENUM 100**

- \***BT1** even-even nuclei  
\***BT1** intermediate mass nuclei  
\***BT1** molybdenum isotopes  
\***BT1** stable isotopes

**MOLYBDENUM 100 REACTIONS**

- INIS*: 1984-06-21; *ETDE*: 1984-08-20  
\***BT1** heavy ion reactions

**MOLYBDENUM 100 TARGET**

- ETDE*: 1976-07-09  
**BT1** targets

**MOLYBDENUM 101**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 102**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 103**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 104**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 105**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 106**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 107**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 108**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 109**

1998-01-27

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 110**

2004-02-16

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 111**

2007-06-06

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 112**

2007-06-06

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes

**MOLYBDENUM 113**

2007-06-06

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes

**MOLYBDENUM 114**

2007-06-06

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes

**MOLYBDENUM 115**

2007-06-06

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes

**MOLYBDENUM 83**

2007-06-06

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 84**

INIS: 1991-03-22; ETDE: 1991-04-09

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes

**MOLYBDENUM 85**

INIS: 1978-04-21; ETDE: 1978-07-06

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes

**MOLYBDENUM 86**

INIS: 1994-12-22; ETDE: 1995-01-03

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 87**

1977-11-02

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 88**

INIS: 1976-11-08; ETDE: 1976-09-15

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 89**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes

- \*BT1 molybdenum isotopes

**MOLYBDENUM 90**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes

**MOLYBDENUM 91**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 92**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 molybdenum isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 stable isotopes

**MOLYBDENUM 92 REACTIONS**

1983-10-14

- \*BT1 heavy ion reactions

**MOLYBDENUM 92 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 93**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 molybdenum isotopes
- \*BT1 years living radioisotopes

**MOLYBDENUM 94**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 molybdenum isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 stable isotopes

**MOLYBDENUM 94 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 95**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 95 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 96**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 96 REACTIONS**

1989-12-08

- \*BT1 heavy ion reactions

**MOLYBDENUM 96 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 97**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 97 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 98**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 98 REACTIONS**

INIS: 1987-05-26; ETDE: 1988-12-05

- \*BT1 heavy ion reactions

**MOLYBDENUM 98 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- RT radioisotope generators

**MOLYBDENUM ADDITIONS**

1996-11-13

Alloys containing not more than 1% Mo are listed here.

- \*BT1 molybdenum alloys
- NT1 alloy-ti90al6
- NT1 steel-cr12moniv
- NT1 steel-cr12mov
- NT2 alloy-ht-9
- NT1 steel-cr17mo
- NT2 stainless steel-440
- NT1 steel-cr2mo
- NT2 steel-astm-a542
- NT1 steel-cr2moninb
- NT1 steel-cr2mov
- NT1 steel-cr2nimov
- NT1 steel-cr5mo
- NT1 steel-cr9mo
- NT1 steel-cralnimo
- NT1 steel-crmo
- NT1 steel-crmo
- NT1 steel-mncumo
- NT2 steel-astm-a537
- NT1 steel-mnmo
- NT2 steel-astm-a302
- NT1 steel-mnnimo
- NT2 steel-astm-a533-b
- NT1 steel-mnnimov
- NT1 steel-ni3crmo
- NT2 steel-astm-a543
- NT1 steel-ni3crmo
- NT1 steel-nicrmo
- NT1 steel-nimocr

**MOLYBDENUM ALLOYS**

1996-11-13

Alloys containing more than 1% Mo.

- UF alloy-ehp-496
- UF alloy-ehp-567
- UF alloy-n55m20v25
- UF alloy-n65m20v15
- UF alloy-ni65mo16cr15w4
- UF alloy-ni80fe16mo4
- UF refractaloy
- UF stainless steel-44ln
- UF steel-cr26ni5mo-1
- \*BT1 transition element alloys
- NT1 alloy-b-1900
- NT1 alloy-co43cr20fe18ni13w3
- NT2 havar
- NT1 alloy-d-979
- NT1 alloy-in-102

- NT1 alloy-khn50mbvyu
- NT1 alloy-mar-m246
- NT1 alloy-mn-21
- NT1 alloy-mp35n
- NT1 alloy-n-10m
- NT1 alloy-n-9m
- NT1 alloy-ni43fe30cr22mo3
- NT2 incoloy 825
- NT1 alloy-ni43fe33cr16mo3
- NT2 nimonic pe16
- NT1 alloy-ni49cr22fe18mo9
- NT2 hastelloy x
- NT1 alloy-ni50co20cr15al5mo5
- NT2 nimonic 105
- NT1 alloy-ni50cr22fe18mo9
- NT2 hastelloy xr
- NT1 alloy-ni50mo32cr15si3
- NT1 alloy-ni53cr19fe19nb5mo3
- NT2 inconel 718
- NT1 alloy-ni54cr22co13mo9
- NT2 inconel 617
- NT1 alloy-ni54mo17cr16fe6w4
- NT2 hastelloy c
- NT1 alloy-ni55co17cr15mo5al4ti4
- NT2 astroloy
- NT1 alloy-ni55cr19co11mo10ti3
- NT2 rene 41
- NT1 alloy-ni58cr20co14mo4ti3
- NT2 waspaloy
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ni61cr22mo9nb4fe3
- NT2 inconel 625
- NT1 alloy-ni62cr16mo15fe3
- NT2 hastelloy s
- NT1 alloy-ni65cr25mo10
- NT2 nimonic 86
- NT1 alloy-ni70mo17cr7fe5
- NT2 hastelloy n
- NT2 inor-8
- NT1 alloy-ni74cr13al6mo4
- NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5
- NT2 inconel 713lc
- NT1 alloy-ni79fe16mo4
- NT1 alloy-nx-188
- NT1 alloy-ra-333
- NT1 alloy-s-590
- NT1 alloy-s-816
- NT1 alloy-ti78cr11mo7al3
- NT1 alloy-ti88mo8al3
- NT1 alloy-ti89al6mo3
- NT1 alloy-ti90al6mo3
- NT1 alloy-ti90mo7al2
- NT1 alloy-ti91al4mo3
- NT1 alloy-ti91al5cr2
- NT1 alloy-v-36
- NT1 chlorimet
- NT1 chromium-molybdenum steels
- NT2 chromium-nickel-molybdenum steels
- NT3 alloy-m-813
- NT3 steel-cr11ni10mo2ti-1
- NT3 steel-cr15ni15motib
- NT3 steel-cr16ni13monbv
- NT3 steel-cr16ni15mo3nb
- NT3 steel-cr16ni16monb
- NT3 steel-cr16ni8mo2
- NT4 stainless steel-16-8-2
- NT3 steel-cr16ni9mo2
- NT3 steel-cr17ni12mo3
- NT4 stainless steel-316
- NT3 steel-cr17ni12mo3-l
- NT4 stainless steel-316l
- NT4 stainless steel-znd17-13
- NT3 steel-cr17ni12monb
- NT3 steel-cr17ni13mo2ti

- NT3 steel-cr17ni13mo3ti
- NT3 steel-ni26cr15ti2moyalb
- NT4 alloy-a-286
- NT1 discaloy
- NT1 illium
- NT1 incoloy 901
- NT1 molybdenum additions
- NT2 alloy-ti90al6
- NT2 steel-cr12moniv
- NT2 steel-cr12mov
- NT3 alloy-ht-9
- NT2 steel-cr17mo
- NT3 stainless steel-440
- NT2 steel-cr2mo
- NT3 steel-astm-a542
- NT2 steel-cr2moninb
- NT2 steel-cr2mov
- NT2 steel-cr2nimov
- NT2 steel-cr5mo
- NT2 steel-cr9mo
- NT2 steel-cralnimo
- NT2 steel-crmo
- NT2 steel-crmo
- NT2 steel-mncumo
- NT3 steel-astm-a537
- NT2 steel-mnmo
- NT3 steel-astm-a302
- NT2 steel-mnnimo
- NT3 steel-astm-a533-b
- NT2 steel-mnnimov
- NT2 steel-ni3crmo
- NT3 steel-astm-a543
- NT2 steel-ni3crmo
- NT2 steel-nicrmo
- NT2 steel-nimocr
- NT1 molybdenum base alloys
- NT2 alloy-mo99
- NT3 alloy-tzm
- NT3 alloy-zm-2a
- NT2 alloy-mo99b
- NT1 ni-o-nel
- NT1 nimonic 115
- NT1 rene-100
- NT1 rene 80
- NT1 rene 95
- NT1 sicromo 9m
- NT1 stainless steel m-50
- NT1 steel-cd-4mcu
- NT1 steel-cr10mo2
- NT1 steel-cr17ni4mo3
- NT1 steel-cr9monbv
- NT1 steel-in-787
- NT1 timken alloys
- NT1 tribaloy 400
- NT1 tribaloy 800
- NT1 udimet alloys
- NT2 alloy-ni53co19cr15mo5al4ti3
- NT3 udimet 700
- NT2 udimet 500
- NT1 vitallium

**MOLYBDENUM ARSENIDES**

INIS: 2000-04-12; ETDE: 1976-03-11

- \*BT1 arsenides
- \*BT1 molybdenum compounds

**MOLYBDENUM BASE ALLOYS**

SF alloy-tzc

- \*BT1 molybdenum alloys
- NT1 alloy-mo99
- NT2 alloy-tzm
- NT2 alloy-zm-2a
- NT1 alloy-mo99b

**MOLYBDENUM BLUE**

- \*BT1 molybdenum oxides
- BT1 pigments

**MOLYBDENUM BORIDES**

- \*BT1 borides

\*BT1 molybdenum compounds

**MOLYBDENUM BROMIDES**

\*BT1 bromides

\*BT1 molybdenum compounds

**MOLYBDENUM CARBIDES**

\*BT1 carbides

\*BT1 molybdenum compounds

**MOLYBDENUM CARBONATES**

*INIS: 1979-01-18; ETDE: 1979-02-23*

\*BT1 carbonates

\*BT1 molybdenum compounds

**MOLYBDENUM CHLORIDES**

\*BT1 chlorides

\*BT1 molybdenum compounds

**MOLYBDENUM COMPLEXES**

\*BT1 transition element complexes

**MOLYBDENUM COMPOUNDS**

*1997-06-17*

BT1 refractory metal compounds

BT1 transition element compounds

NT1 molybdates

NT1 molybdenum arsenides

NT1 molybdenum borides

NT1 molybdenum bromides

NT1 molybdenum carbides

NT1 molybdenum carbonates

NT1 molybdenum chlorides

NT1 molybdenum fluorides

NT1 molybdenum hydrides

NT1 molybdenum hydroxides

NT1 molybdenum iodides

NT1 molybdenum nitrates

NT1 molybdenum nitrides

NT1 molybdenum oxides

NT2 molybdenum blue

NT1 molybdenum phosphates

NT1 molybdenum phosphides

NT1 molybdenum selenides

NT1 molybdenum silicates

NT1 molybdenum silicides

NT1 molybdenum sulfates

NT1 molybdenum sulfides

NT1 molybdenum tellurides

NT1 molybdic acid

NT1 molybdophosphates

NT1 molybdophosphoric acid

**MOLYBDENUM FLUORIDES**

\*BT1 fluorides

\*BT1 molybdenum compounds

**MOLYBDENUM HYDRIDES**

\*BT1 hydrides

\*BT1 molybdenum compounds

**MOLYBDENUM HYDROXIDES**

*ETDE: 1975-08-19*

\*BT1 hydroxides

\*BT1 molybdenum compounds

**MOLYBDENUM IODIDES**

\*BT1 iodides

\*BT1 molybdenum compounds

**MOLYBDENUM IONS**

\*BT1 ions

**MOLYBDENUM ISOTOPES**

*1999-07-16*

BT1 isotopes

NT1 molybdenum 100

NT1 molybdenum 101

NT1 molybdenum 102

NT1 molybdenum 103

NT1 molybdenum 104

NT1 molybdenum 105

NT1 molybdenum 106

NT1 molybdenum 107

NT1 molybdenum 108

NT1 molybdenum 109

NT1 molybdenum 110

NT1 molybdenum 111

NT1 molybdenum 112

NT1 molybdenum 113

NT1 molybdenum 114

NT1 molybdenum 115

NT1 molybdenum 83

NT1 molybdenum 84

NT1 molybdenum 85

NT1 molybdenum 86

NT1 molybdenum 87

NT1 molybdenum 88

NT1 molybdenum 89

NT1 molybdenum 90

NT1 molybdenum 91

NT1 molybdenum 92

NT1 molybdenum 93

NT1 molybdenum 94

NT1 molybdenum 95

NT1 molybdenum 96

NT1 molybdenum 97

NT1 molybdenum 98

NT1 molybdenum 99

**MOLYBDENUM NITRATES**

*INIS: 1996-07-18; ETDE: 1976-12-16*

(From July 1996 to November 2007  
MOLYBDENUM COMPOUNDS +  
NITRATES was used for this concept.)

\*BT1 molybdenum compounds

\*BT1 nitrates

**MOLYBDENUM NITRIDES**

\*BT1 molybdenum compounds

\*BT1 nitrides

**MOLYBDENUM ORES**

BT1 ores

**MOLYBDENUM OXIDES**

*1996-07-23*

\*BT1 molybdenum compounds

\*BT1 oxides

NT1 molybdenum blue

RT molybdates

RT molybdophosphoric acid

RT oxide minerals

**MOLYBDENUM PHOSPHATES**

\*BT1 molybdenum compounds

\*BT1 phosphates

**MOLYBDENUM PHOSPHIDES**

*INIS: 1978-07-03; ETDE: 1976-07-07*

\*BT1 molybdenum compounds

\*BT1 phosphides

**MOLYBDENUM SELENIDES**

\*BT1 molybdenum compounds

\*BT1 selenides

**MOLYBDENUM SILICATES**

\*BT1 molybdenum compounds

\*BT1 silicates

**MOLYBDENUM SILICIDES**

*1975-10-09*

\*BT1 molybdenum compounds

\*BT1 silicides

**MOLYBDENUM SULFATES**

\*BT1 molybdenum compounds

\*BT1 sulfates

**MOLYBDENUM SULFIDES**

\*BT1 molybdenum compounds

\*BT1 sulfides

**MOLYBDENUM TELLURIDES**

\*BT1 molybdenum compounds

\*BT1 tellurides

**MOLYBDIC ACID**

*2000-04-12*

\*BT1 inorganic acids

\*BT1 molybdenum compounds

**MOLYBDOPHOSPHATES**

*INIS: 1985-09-09; ETDE: 1985-10-11*

*Specific compounds should be indexed by  
coordination of a descriptor of the form  
(CATION) COMPOUNDS and the above  
anion descriptor.*

\*BT1 molybdenum compounds

BT1 oxygen compounds

BT1 phosphorus compounds

RT phosphates

**MOLYBDOPHOSPHORIC ACID**

*1980-05-14*

UF *phosphomolybdic acid*

\*BT1 inorganic acids

\*BT1 molybdenum compounds

BT1 oxygen compounds

BT1 phosphorus compounds

RT heteropolyanions

RT molybdenum oxides

RT phosphoric acid

**MOMENT OF INERTIA**

UF *inertia*

RT backbending

RT kinetic energy

RT mass

RT mechanics

RT rotation

RT vmi model

RT yrast states

**MOMENTS METHOD**

BT1 calculation methods

RT plasma fluid equations

RT transport theory

**momentum (angular)**

USE angular momentum

**momentum (linear)**

USE linear momentum

**momentum (longitudinal)**

USE longitudinal momentum

**momentum (transverse)**

USE transverse momentum

**MOMENTUM COOLING**

*INIS: 1982-04-13; ETDE: 1982-05-07*

*Gradual reduction of emittance of coasting  
charged-particle beams by feedback sensing  
and correcting statistical fluctuations of beam  
momentum.*

UF *stochastic momentum cooling*

\*BT1 stochastic cooling

**MOMENTUM TRANSFER**

*INIS: 1978-02-23; ETDE: 1978-11-14*

UF *transfer (momentum)*

NT1 angular momentum transfer

NT1 four momentum transfer

NT1 linear momentum transfer

**MOMOTOMBO GEOTHERMAL  
FIELD**

*INIS: 2000-04-12; ETDE: 1983-07-20*

BT1 geothermal fields

RT nicaragua

**MONACO**

*1995-04-03*

BT1 developed countries

\*BT1 western europe

**MONACO MARINE ENVIRONMENT LABORATORY**

INIS: 2004-06-11; ETDE: 2004-07-08

(Prior to June 2004 ILMR was used for this research institute.)

UF *iaea marine environment laboratory, monaco*

UF *ilmr*

\*BT1 *iaea*

**MONAZITES**

UF *cheralite*

\*BT1 *phosphate minerals*

\*BT1 *thorium minerals*

RT *thorium phosphates*

**MONEL**

\*BT1 *nickel base alloys*

NT1 *alloy-ni66cu32*

NT2 *monel 400*

**MONEL 400**

INIS: 1993-10-03; ETDE: 1978-12-20

\*BT1 *alloy-ni66cu32*

**monel r-405**

INIS: 1983-11-07; ETDE: 2002-03-28

USE *alloy-ni66cu32*

**mongolia**

INIS: 1995-01-24; ETDE: 2002-06-13

USE *mongolian peoples republic*

**MONGOLIAN PEOPLES REPUBLIC**

INIS: 1995-01-24; ETDE: 1979-09-27

UF *mongolia*

BT1 *asia*

RT *centrally planned economies*

**mongolism**

USE *downs syndrome*

**mongrels**

INIS: 2000-04-12; ETDE: 1981-06-15

USE *dogs*

**monilia**

USE *candida*

**monique event**

1994-10-14

(Prior to September 1994, this was a valid ETDE descriptor.)

USE *contained explosions*

USE *nuclear explosions*

**monitor codes**

INIS: 1988-11-16; ETDE: 1983-08-25

USE *executive codes*

**MONITORED RETRIEVABLE STORAGE**

INIS: 1994-07-01; ETDE: 1984-02-10

*The long-term isolation of spent fuel and high-level radioactive waste in facilities that permit continuous monitoring, ready retrieval and periodic maintenance as necessary to assure containment of radioactive materials.*

\*BT1 *radioactive waste storage*

\*BT1 *spent fuel storage*

RT *high-level radioactive wastes*

RT *spent fuels*

**MONITORING**

*Use of a more specific term is recommended.*

UF *monitoring network*

SF *surveillance*

NT1 *acoustic monitoring*

NT1 *aerial monitoring*

NT1 *air pollution monitoring*

NT2 *aerosol monitoring*

NT1 *beam monitoring*

NT1 *loose parts monitoring*

NT1 *radiation monitoring*

NT2 *personnel monitoring*

NT1 *temperature monitoring*

RT *control*

RT *detection*

RT *reactor monitoring systems*

RT *water pollution monitors*

**monitoring (beam)**

2000-04-12

USE *beam monitoring*

**monitoring (radiation)**

2000-04-12

USE *radiation monitoring*

**monitoring network**

USE *monitoring*

**MONITORS**

INIS: 1984-12-04; ETDE: 1980-11-08

*Use of a more specific term is recommended.*

BT1 *measuring instruments*

NT1 *air pollution monitors*

NT1 *beam monitors*

NT2 *beam scanners*

NT2 *faraday cups*

NT2 *magnetoinduction sensors*

NT1 *failed element monitors*

NT1 *radiation monitors*

NT2 *exposure ratemeters*

NT2 *liquid contamination monitors*

NT2 *neutron monitors*

NT2 *surface contamination monitors*

NT2 *survey monitors*

NT1 *water pollution monitors*

RT *reactor monitoring systems*

**monitors (air pollution)**

INIS: 1991-09-18; ETDE: 1976-07-07

USE *air pollution monitors*

**monitors (beam)**

INIS: 2000-04-12; ETDE: 1983-11-09

USE *beam monitors*

**monitors (failed elements)**

2000-04-12

USE *failed element monitors*

**monitors (radiation)**

INIS: 2000-04-12; ETDE: 1983-11-09

USE *radiation monitors*

**monitors (reactor)**

2000-03-28

USE *reactor control systems*

**monitors (water pollution)**

INIS: 1992-01-15; ETDE: 2002-03-28

USE *water pollution monitors*

**MONJU REACTOR**

JNC, *Tsuruga, Fukui, Japan.*

UF *fast prototype reactor japan*

UF *japan prototype fast reactor*

UF *jpr reactor*

UF *prototype fast reactor japan*

\*BT1 *lmfbr type reactors*

\*BT1 *power reactors*

\*BT1 *sodium cooled reactors*

**MONKEYS**

\*BT1 *primates*

NT1 *baboons*

NT1 *macacus*

RT *apes*

**monobutyl phosphate**

INIS: 1988-08-02; ETDE: 1982-10-05

USE *mbp*

**MONOCARBOXYLIC ACIDS**

1996-10-23

UF *ioglycamic acid*

\*BT1 *carboxylic acid*

NT1 *abscisic acid*

NT1 *acetic acid*

NT1 *acrylic acid*

NT1 *arachidonic acid*

NT1 *benzoic acid*

NT1 *butyric acid*

NT1 *chlorambucil*

NT1 *cinnamic acid*

NT1 *crotonic acid*

NT1 *decanoic acid*

NT1 *dodecanoic acid*

NT1 *eicosanoic acid*

NT1 *formic acid*

NT1 *glycolic acid*

NT1 *heptanoic acid*

NT1 *hexadecanoic acid*

NT1 *hexanoic acid*

NT1 *isobutyric acid*

NT1 *isovaleric acid*

NT1 *linoleic acid*

NT1 *linolenic acid*

NT1 *methacrylic acid*

NT1 *nicotinic acid*

NT1 *nonanoic acid*

NT1 *octadecanoic acid*

NT1 *octanoic acid*

NT1 *oleic acid*

NT1 *pethidine*

NT1 *pivalic acid*

NT1 *propionic acid*

NT1 *sorbic acid*

NT1 *tetradecanoic acid*

NT1 *uronic acids*

NT1 *valeric acid*

**monochloroethylene**

INIS: 1992-03-17; ETDE: 1984-05-08

USE *vinyl chloride*

**MONOCHROMATIC RADIATION**

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 *electromagnetic radiation*

RT *laser radiation*

RT *visible radiation*

**MONOCHROMATORS**

RT *beam analyzers*

RT *beam optics*

RT *spectrometers*

**MONOCLINIC LATTICES**

\*BT1 *crystal lattices*

**MONOCLONAL ANTIBODIES**

INIS: 1982-09-21; ETDE: 1982-01-21

BT1 *antibodies*

RT *clone cells*

RT *hybridomas*

RT *radioimmunoscintigraphy*

RT *radioimmunotherapy*

**monocotyledons**

INIS: 1991-12-16; ETDE: 1988-12-21

USE *liliopsida*

**MONOCRYSTALS**

UF *single crystals*

BT1 *crystals*

NT1 *whiskers*

RT *dendritic web growth method*

RT *heat exchanger method*

RT *verneuil method*

**MONOCYTES**

\*BT1 *leukocytes*



**monododecylphosphoric acid**

USE mdpa

**MONOMERS**

NT1 vinyl monomers  
 RT dimers  
 RT polymerization  
 RT polymers

**MONONGAHELA RIVER BASIN**

INIS: 1992-01-14; ETDE: 1977-07-23

BT1 watersheds  
 RT pennsylvania  
 RT west virginia

**MONOPOLES**

NT1 magnetic monopoles  
 RT multipoles

**MONOPOLIES**

INIS: 1993-02-19; ETDE: 1978-03-09

Exclusive control of the supply of goods or services by groups or individuals.

RT antitrust laws  
 RT cartels  
 RT cooperatives  
 RT market  
 RT trade

**MONORAILS**

INIS: 2000-04-12; ETDE: 1980-11-08

BT1 railways  
 RT rail transport

**MONOSACCHARIDES**

1996-01-24

\*BT1 saccharides  
 NT1 erythritol  
 NT1 hexoses  
 NT2 fructose  
 NT2 galactose  
 NT2 glucose  
 NT2 hexosamines  
 NT3 glucosamine  
 NT2 mannose  
 NT2 sorbose  
 NT1 inositols  
 NT2 inositol  
 NT1 pentoses  
 NT2 arabinose  
 NT2 deoxyribose  
 NT2 ribose  
 NT2 ribulose  
 NT2 xylose  
 NT1 sorbitol  
 RT gluconic acid

**MONOTECTICS**

RT eutectics  
 RT phase diagrams

**MONOTECTOIDS**

RT eutectoids  
 RT phase diagrams

**monsanto system**

INIS: 2000-04-12; ETDE: 1976-01-23

USE landgard pyrolysis system

**MONSOONS**

INIS: 1992-03-31; ETDE: 1986-07-08

BT1 storms  
 RT hurricanes  
 RT rain

**MONTAGUE-1 REACTOR**

Northeast Nuclear Energy Co., Montague,  
 Massachusetts, USA. Canceled in 1980 before  
 construction began.

\*BT1 bwr type reactors

**MONTAGUE-2 REACTOR**

Northeast Nuclear Energy Co., Montague,  
 Massachusetts, USA. Canceled in 1980 before  
 construction began.

\*BT1 bwr type reactors

**MONTALTO DI CASTRO-1 REACTOR**

INIS: 1985-03-15; ETDE: 1985-04-09

Latium, Italy.

UF alto lazio-1 reactor  
 UF enel-6 reactor  
 \*BT1 bwr type reactors

**MONTALTO DI CASTRO-2 REACTOR**

INIS: 1985-03-15; ETDE: 1985-04-09

Latium, Italy.

UF alto lazio-2 reactor  
 UF enel-8 reactor  
 \*BT1 bwr type reactors

**montan waxes**

INIS: 2000-04-12; ETDE: 1977-06-24

USE waxes

**MONTANA**

\*BT1 usa  
 NT1 powder river basin  
 RT missouri river  
 RT western us overthrust belt  
 RT williston basin  
 RT yellowstone national park

**MONTE AMIATA GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields  
 RT italy

**MONTE CARLO METHOD**

BT1 calculation methods  
 RT fault tree analysis  
 RT neutron transport theory  
 RT probability  
 RT randomness  
 RT stochastic processes  
 RT transport theory

**montecuccolino rb-1 reactor**

USE rb-1 reactor

**montecuccolino rb-2 reactor**

USE rb-2 reactor

**montecuccolino rb-3 reactor**

USE rb-3 reactor

**MONTENEGRO**

2006-11-20

SF serbia and montenegro  
 SF yugoslavia  
 BT1 developing countries  
 \*BT1 eastern europe

**MONTHLY VARIATIONS**

INIS: 1979-09-18; ETDE: 1978-04-06

BT1 variations

**MONTICELLO REACTOR**

Nuclear Management Co., LLC, Monticello,  
 Minnesota, USA.

UF northern states monticello reactor  
 \*BT1 bwr type reactors

**MONTMORILLONITE**

Clay minerals.

UF hectorite  
 \*BT1 clays  
 \*BT1 inorganic ion exchangers  
 RT bentonite

**montreal university slowpoke reactor**

INIS: 1993-11-09; ETDE: 2002-03-28

USE slowpoke-montreal reactor

**MONTROSEITE**

2000-04-12

\*BT1 uranium minerals  
 RT sandstones

**MOON**

BT1 satellites  
 RT apollo project  
 RT lunar atmosphere  
 RT lunar materials

**MOORINGS**

INIS: 2000-04-12; ETDE: 1976-08-04

RT deep water oil terminals  
 RT harbors

**MORAINES**

BT1 geologic deposits

**morbidity**

INIS: 2000-04-12; ETDE: 1981-07-06

USE disease incidence

**MORDENITE**

1993-03-10

A zeolite mineral.

\*BT1 zeolites

**MORGANTOWN ENERGY TECHNOLOGY CENTER**

INIS: 1993-06-07; ETDE: 1980-09-05

\*BT1 us doe

**MORIN**

BT1 dyes  
 \*BT1 flavones  
 \*BT1 polyphenols  
 BT1 reagents

**MOROCCAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**MOROCCO**

BT1 africa  
 BT1 arab countries  
 BT1 developing countries

**MORPHINE**

1999-01-25

\*BT1 alkaloids  
 \*BT1 opium  
 NT1 thebaine  
 RT codeine  
 RT heroin  
 RT papaver somniferum

**MORPHOGENESIS**

INIS: 1996-04-30; ETDE: 1996-05-03

RT morphology  
 RT ontogenesis  
 RT organs  
 RT shape

**MORPHOLINES**

\*BT1 amines  
 \*BT1 ethers  
 \*BT1 heterocyclic compounds  
 \*BT1 organic nitrogen compounds

**MORPHOLOGICAL CHANGES**

NT1 ultrastructural changes  
 RT animal tissues  
 RT biological effects  
 RT microscopy  
 RT morphology  
 RT plant breeding

**MORPHOLOGY**

INIS: 1996-04-30; ETDE: 1978-01-23

Study of structure or form.

- RT configuration
- RT crystal structure
- RT morphogenesis
- RT morphological changes
- RT shape
- RT structural models

**morris plant**

INIS: 2000-04-12; ETDE: 1978-09-13

USE midwest fuel recovery plant

**MORRISON RULE**

An empirical rule for pomeron exchange.

- RT exchange interactions
- RT parity
- RT particle interactions
- RT pomeranchuk particles
- RT spin

**MORSE POTENTIAL**

- BT1 potentials
- RT interatomic forces

**MORSLEBEN SALT MINE**

INIS: 1992-02-04; ETDE: 1991-11-25

- \*BT1 radioactive waste facilities
- RT intermediate-level radioactive wastes
- RT low-level radioactive wastes
- RT salt caverns
- RT salt deposits
- RT underground disposal

**MORTALITY**

- RT death
- RT lethal irradiation
- RT life span
- RT supralethal irradiation
- RT survival curves
- RT time dependence

**MORTARS**

- RT building materials
- RT cements
- RT concretes
- RT grouting

**MOS SOLAR CELLS**

INIS: 1992-05-29; ETDE: 1981-07-18

UF metal oxide-semiconductor solar cells

\*BT1 solar cells

**MOS TRANSISTORS**

Metal Oxide Silicon transistors.

- \*BT1 transistors
- NT1 mosfet

**MOSAICISM**

- NT1 chimeras
- NT2 radiation chimeras
- NT1 parabiosis
- RT genetic effects
- RT mutations

**moscow irt-2000 reactor**

INIS: 1984-07-20; ETDE: 2002-03-28

USE irt-2000 moscow reactor

**moscow research reactor**

2000-04-12

USE mr reactor

**moscow wwr-s reactor**

INIS: 1984-06-21; ETDE: 2002-03-28

USE wwr-s-moscow reactor

**MOSFET**

Metal Oxide Silicon Field Effect Transistors.

- \*BT1 field effect transistors
- \*BT1 mos transistors

**MOSHINSKY TRANSFORMATION**

2000-04-12

Coefficients for transforming wave functions between laboratory and center-of-mass systems on the basis of the harmonic oscillator.

- \*BT1 orthogonal transformations
- \*BT1 quantum operators

**MOSQUITOES**

UF aedes

UF anopheles

\*BT1 diptera

RT malaria

**MOSSES**

1986-03-04

\*BT1 bryophyta

**motels**

INIS: 2000-04-12; ETDE: 1979-12-17

USE hotels

**MOTHS**

\*BT1 lepidoptera

NT1 bollworm

NT1 codling moth

NT1 lymantria dispar

NT1 rice stem borers

NT1 silkworm

**MOTION**

NT1 ground motion

NT1 proper motion

NT1 rotation

RT angular momentum

RT brownian movement

RT guiding-center approximation

RT kinetic energy

RT kinetics

RT linear momentum

RT trajectories

RT velocity

**MOTION DETECTION SYSTEMS**

INIS: 1999-01-25; ETDE: 1979-07-24

BT1 alarm systems

RT detection

RT intrusion detection systems

RT nuclear materials diversion

RT physical protection devices

RT safeguards

RT security

**motor inns**

INIS: 2000-04-12; ETDE: 1979-12-17

USE hotels

**MOTOR VEHICLE ACCIDENTS**

BT1 accidents

RT road transport

RT vehicles

**MOTOR VEHICLE OPERATORS**

INIS: 1993-02-09; ETDE: 1980-03-04

BT1 personnel

RT automobiles

RT occupants

RT operation

RT vehicles

**motor vehicles**

ETDE: 2002-03-28

USE vehicles

**MOTORBOATS**

INIS: 2000-04-12; ETDE: 1982-06-07

RT recreational vehicles

RT ships

**MOTORCYCLES**

INIS: 2000-04-12; ETDE: 1977-06-21

BT1 vehicles

**MOTORS**

1999-07-06

BT1 engines

NT1 electric motors

NT2 superconducting motors

NT1 pneumatic motors

**MOTT SCATTERING**

\*BT1 elastic scattering

**mottelson-nilsson model**

USE nilsson-mottelson model

**moulting**

INIS: 1981-07-06; ETDE: 1981-08-04

USE molting

**MOUND LABORATORY**

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT ohio

**MOUNTAINS**

1996-06-26

(Prior to June 1996 CARRIZO MOUNTAINS was a valid ETDE descriptor.)

UF carrizo mountains

NT1 alps

NT1 andes

NT1 appalachian mountains

NT2 adirondack mountains

NT1 appennines

NT1 cascade mountains

NT2 mt baker

NT2 mt hood

NT2 mt st helens

NT1 colorado plateau

NT1 himalayas

NT1 jemez mountains

NT1 rocky mountains

NT1 san bernardino mountains

NT1 sierra nevada colorado

NT1 urals

NT1 witwatersrand

NT1 yucca mountain

RT complex terrain

RT ice caps

RT orogenesis

RT valleys

**mouth**

USE oral cavity

**MOVING-BOUNDARY CONDITIONS**

BT1 boundary conditions

**MOVING-BURDEN PROCESS**

2000-04-12

A three-vessel fluidized bed process for the gasification of coal.

\*BT1 coal gasification

**MOVING COIL MAGNETOMETERS**

\*BT1 magnetometers

**MOZAMBIQUE**

BT1 africa

BT1 developing countries

**mp tandem accelerator**

INIS: 1976-06-23; ETDE: 2002-03-28

USE crml mp tandem accelerator

**mp35n**

INIS: 2000-04-12; ETDE: 1979-01-30

USE alloy-mp35n

**mpa**

USE maximum permissible activity

**mpbb**

USE maximum permissible body burden

**mpc**

USE maximum permissible concentration

**mpd**

USE maximum permissible dose

**mppe**

USE maximum permissible exposure

**MPG**

INIS: 1981-12-23; ETDE: 1982-02-09

UF 2-mercaptopyrionylglycine

\*BT1 amino acids

\*BT1 radioprotective substances

\*BT1 thiols

**mpi**

USE maximum permissible intake

**mpl**

USE maximum permissible level

**mr-2 moscow reactor**

USE rpt reactor

**MR REACTOR**

2000-04-12

UF moscow research reactor

\*BT1 research reactors

**mrg process**

INIS: 2000-04-12; ETDE: 1976-01-23

USE sng processes

**MRR REACTOR**

Association of Universities Inc., Upton, New York, USA.

UF brookhaven medical research reactor

UF medical research reactor, bnl

UF us aec mrr

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**MS SOLAR CELLS**

INIS: 1992-05-29; ETDE: 1981-07-18

UF metal-semiconductor solar cells

\*BT1 solar cells

**msmr reactor**

Missouri School of Mines, Rolla.

USE umrr reactor

**MSRE REACTOR**

ORNL, Oak Ridge, Tennessee, USA.

UF molten salt reactor experiment

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 graphite moderated reactors

\*BT1 molten salt cooled reactors

\*BT1 power reactors

\*BT1 thermal reactors

**MSSTF**

INIS: 2000-04-12; ETDE: 1980-11-08

Mid-temperature Solar System Test Facility at Sandia Laboratories which includes the subsystem test facility and the collector module test facility.

UF collector module test facility

UF midtemperature solar system test facility

UF subsystem test facility

BT1 test facilities

RT distributed collector power plants

RT sttfua

**MST DEVICE**

1994-03-15

Madison Symmetric Torus at the University of Wisconsin at Madison, Wisconsin, USA.

\*BT1 reversed-field pinch devices

RT reverse-field pinch

**MSU CYCLOTRONS**

Includes 56 MeV proton cyclotron and heavy ion K500 and K800 superconducting cyclotrons.

UF michigan state university cyclotrons

\*BT1 isochronous cyclotrons

**MT-1 TOKAMAK**

INIS: 1989-11-24; ETDE: 1989-12-08

Hungarian Academy of Sciences, Budapest, Hungary.

\*BT1 tokamak devices

**MT BAKER**

INIS: 1992-06-12; ETDE: 1976-08-24

\*BT1 cascade mountains

RT washington

**MT HOOD**

INIS: 2000-04-12; ETDE: 1982-09-10

\*BT1 cascade mountains

\*BT1 oregon

**MT ST HELENS**

INIS: 1992-06-12; ETDE: 1981-08-04

\*BT1 cascade mountains

RT volcanoes

RT washington

**mta atommagkutato intezete**

INIS: 1986-04-03; ETDE: 2002-03-28

USE atomki

**MTHF**

2000-04-04

UF methyltetrahydrofuran

\*BT1 tetrahydrofuran

**MTR REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1970.

UF idaho materials testing reactor

UF materials testing reactor idaho

UF us aec materials testing reactor-idaho

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**mtse devices**

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor.)

USE magnetic mirrors

**MTX TOKAMAK**

1993-08-09

Microwave Tokamak eXperiment, Lawrence Livermore Laboratory, USA.

\*BT1 tokamak devices

**mu sr**

INIS: 1988-02-02; ETDE: 1986-11-20

USE muon spin relaxation

**MUCOPOLYSACCHARIDES**

\*BT1 amines

\*BT1 polysaccharides

NT1 chitin

NT1 chondroitin

NT1 heparin

NT1 hyaluronic acid

RT glycoproteins

**MUCOPROTEINS**

\*BT1 polysaccharides

\*BT1 proteins

NT1 haptoglobins

NT1 intrinsic factor

NT1 phytohemagglutinin

RT chondroitin

RT glycoproteins

RT lysozyme

**mucosa**

USE mucous membranes

**MUCOUS MEMBRANES**

UF mucosa

BT1 membranes

NT1 conjunctiva

RT epithelium

**MUEHLEBERG REACTOR**

Muehleberg, Bern, Switzerland.

UF akm muehleberg reactor

UF akm reactor

UF atomkraftwerk muehleberg

\*BT1 bwr type reactors

**MUELHEIM-KAERLICH REACTOR**

ETDE: 1975-09-11

Muehlheimkaerlich, Rheinlandpfalz, Federal Republic of Germany.

\*BT1 pwr type reactors

**muenster event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**muf**

USE material unaccounted for

**MUFFIN-TIN POTENTIAL**

BT1 potentials

RT electronic structure

RT wave functions

**mulberry alloy**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE alloy-u90nb7zr3

**mule deer**

USE deer

**mullers**

INIS: 2000-04-12; ETDE: 1976-09-14

Equipment used for agitating, grinding, and mixing.

(Prior to April 1994, this was a valid ETDE descriptor.)

SEE grinding machines

SEE mixers

**MULLITE**

\*BT1 inorganic ion exchangers

\*BT1 oxide minerals

**MULTI-CENTER SHELL MODEL**

INIS: 1981-11-27; ETDE: 1982-01-07

UF multicenter shell model

\*BT1 shell models

**MULTI-CHANNEL ANALYZERS**

UF multichannel analyzers

\*BT1 pulse analyzers

**multi-charged ions**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multicharged ions

**MULTI-ELEMENT ANALYSIS**

1996-01-15  
For analysis of two or more elements or isotopes of different elements.  
UF multielement analysis  
BT1 chemical analysis

**MULTI-ELEMENT SEPARATION**

For mutual separation of 2 or more elements or isotopes of different elements.  
UF multielement separation  
BT1 separation processes

**multi-level analysis**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multilevel analysis

**MULTI-NUCLEON TRANSFER REACTIONS**

More than one nucleon transferred.  
UF multinucleon transfer reactions  
\*BT1 transfer reactions  
NT1 four-nucleon transfer reactions  
NT2 alpha-transfer reactions  
NT1 many-nucleon transfer reactions  
NT1 three-nucleon transfer reactions  
NT1 two-nucleon transfer reactions

**MULTI-PARAMETER ANALYSIS**

UF multiparameter analysis  
RT data processing  
RT parametric analysis

**multi-particle spectrometers**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multiparticle spectrometers

**MULTI-PHOTON PROCESSES**

INIS: 1983-03-15; ETDE: 1981-11-10  
UF multiphoton processes  
RT energy-level transitions  
RT lasers  
RT photon emission

**multi-wire ionization chambers**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multiwire ionization chambers

**multi-wire proportional chambers**

INIS: 1993-11-09; ETDE: 2002-03-28  
USE multiwire proportional chambers

**multicenter shell model**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multi-center shell model

**multichannel analyzers**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multi-channel analyzers

**MULTICHARGED IONS**

With charge 3 and above.  
UF multi-charged ions  
\*BT1 ions  
RT heavy ions  
RT light ions

**multielement analysis**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multi-element analysis

**multielement separation**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multi-element separation

**MULTIGROUP THEORY**

\*BT1 neutron transport theory  
RT group constants

**multilamellar lipid vesicles**

INIS: 2000-04-12; ETDE: 1979-07-18  
USE liposomes

**MULTILATERAL AGREEMENTS**

\*BT1 international agreements  
NT1 kyoto protocol  
NT1 rio declaration

**multilateral consultation mechanism, oecd**

INIS: 1978-08-14; ETDE: 2002-03-28  
Multilateral Consultation and surveillance Mechanism for Sea Dumping of Radioactive Waste.  
USE oecd mcmsdrw

**MULTILEVEL ANALYSIS**

UF multi-level analysis  
RT breit-wigner formula  
RT cross sections  
RT r matrix  
RT resonance

**multinational companies**

INIS: 2000-06-27; ETDE: 1978-04-05  
USE multinational enterprises

**MULTINATIONAL ENTERPRISES**

INIS: 2000-06-27; ETDE: 1978-04-05  
UF multinational companies  
UF multinational ownership  
RT international cooperation

**multinational ownership**

INIS: 2000-06-27; ETDE: 1977-12-22  
(Prior to March 1996 this was a valid ETDE descriptor.)  
USE multinational enterprises  
USE ownership

**multinucleon transfer reactions**

INIS: 1993-11-09; ETDE: 2002-03-28  
USE multi-nucleon transfer reactions

**multiparameter analysis**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multi-parameter analysis

**MULTIPARTICLE****SPECTROMETERS**

UF multi-particle spectrometers  
\*BT1 spectrometers

**MULTIPERIPHERAL MODEL**

UF diffractive dissociation  
\*BT1 peripheral models  
NT1 cluster emission model  
NT2 space-time model  
RT abfst equation

**MULTIPHASE FLOW**

INIS: 1981-08-06; ETDE: 1976-03-11  
Simultaneous flow of more than two fluid phases in the same flow channel or pipe.  
BT1 fluid flow  
RT gas flow  
RT liquid flow

**multiphoton processes**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multi-photon processes

**MULTIPLE COLLISION METHOD**

BT1 calculation methods  
RT multiple scattering

**MULTIPLE-HEARTH FURNACES**

INIS: 2000-04-12; ETDE: 1981-12-14  
BT1 furnaces

**MULTIPLE PRODUCTION**

BT1 particle production  
NT1 pionization  
RT centauro-type events  
RT charge distribution  
RT cluster emission model  
RT coherent tube model  
RT correlated-particle models  
RT limiting fragmentation  
RT multiplicity  
RT particle decay  
RT particle interactions

**MULTIPLE SCATTERING**

BT1 scattering  
RT faddeev equations  
RT glauber theory  
RT many-body problem  
RT moliere theory  
RT multiple collision method

**MULTIPLETS**

NT1 particle multiplets  
NT2 baryon decuplets  
NT2 baryon octets  
NT2 meson nonets  
NT2 meson octets  
NT1 supermultiplets  
NT1 triplets

**MULTIPLEXERS**

\*BT1 electronic equipment  
RT data transmission  
RT remote multiplexing systems

**MULTIPLICATION FACTORS**

BT1 dimensionless numbers  
RT criticality  
RT disadvantage factor  
RT fast fission factor  
RT fission neutrons  
RT resonance escape probability  
RT thermal fission factor  
RT thermal utilization

**MULTIPLICITY**

RT eigenvalues  
RT multiple production  
RT quantum numbers

**multiplier tubes**

USE electron multipliers

**MULTIPOLAR CONFIGURATIONS**

\*BT1 closed configurations  
NT1 hexapolar configurations  
NT1 octupolar configurations  
NT1 quadrupolar configurations  
RT fm devices  
RT internal ring devices  
RT lm devices

**MULTIPOLARITY**

RT mixing ratio  
RT multipole radiation  
RT multipoles

**MULTIPOLE RADIATION**

UF octupole radiation  
\*BT1 electromagnetic radiation  
RT multipolarity  
RT multipoles

**MULTIPOLE TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28  
BT1 energy-level transitions  
NT1 e0-transitions  
NT1 e1-transitions  
NT1 e2-transitions  
NT1 e3-transitions  
NT1 e4-transitions  
NT1 m1-transitions

NT1 m2-transitions  
 NT1 m3-transitions  
 NT1 m4-transitions

**MULTIPOLES**

NT1 dipoles  
 NT2 electric dipoles  
 NT2 magnetic dipoles  
 NT1 hexadecapoles  
 NT1 hexapoles  
 NT1 octupoles  
 NT1 quadrupoles  
 RT mixing ratio  
 RT monopoles  
 RT multipolarity  
 RT multipole radiation  
 RT sternheimer formula

**multiprocessing**

INIS: 2000-04-12; ETDE: 1986-06-12  
 USE parallel processing

**multiprocessors**

INIS: 2000-04-12; ETDE: 1985-08-08  
 USE array processors

**multipurpose applied physics lattice reactor**

INIS: 1993-11-09; ETDE: 2002-03-28  
 USE maple type reactors

**multipurpose vhr reactor**

INIS: 1978-01-16; ETDE: 2002-03-28  
 USE vhr reactor

**MULTISPECTRAL PHOTOGRAPHY**

INIS: 1992-09-16; ETDE: 1980-04-14  
 UF thematic mapping  
 BT1 photography  
 RT remote sensing  
 RT spectroscopy

**MULTISPECTRAL SCANNERS**

INIS: 1998-10-13; ETDE: 1980-04-14  
*Instruments for the simultaneous scanning of more than one, usually several, spectral bands of various wavelengths.*  
 BT1 measuring instruments  
 RT spectra  
 RT spectroscopy

**multisphere neutron detectors**

USE bonner sphere detectors

**multistory buildings**

2005-07-05  
 USE high-rise buildings

**MULTIVARIATE ANALYSIS**

INIS: 1992-03-30; ETDE: 1981-04-17  
 \*BT1 statistics  
 RT correlations

**MULTIVIBRATORS**

UF schmitt trigger circuits  
 \*BT1 pulse circuits  
 NT1 flip-flop circuits  
 RT pulse generators

**multiwire drift chambers**

USE drift chambers

**MULTIWIRE IONIZATION CHAMBERS**

UF multi-wire ionization chambers  
 \*BT1 ionization chambers

**MULTIWIRE PROPORTIONAL CHAMBERS**

UF charpak chambers  
 UF multi-wire proportional chambers  
 UF mwpc

\*BT1 proportional counters  
 NT1 drift chambers  
 NT2 time projection chambers  
 RT ionization chambers  
 RT projection spark chambers  
 RT wire spark chambers

**mungbean plants**

INIS: 1992-05-07; ETDE: 1993-01-20  
 USE vigna

**MUNGBEANS**

INIS: 1981-08-06; ETDE: 1981-09-22  
 \*BT1 beans  
 BT1 seeds  
 RT phaseolus  
 RT vigna

**MUNICH COMPACT CYCLOTRON**

INIS: 1983-06-01; ETDE: 1991-03-19  
 (Prior to March 1991, this concept in ETDE was indexed to MUNICH CYCLOTRON.)  
 UF munich cyclotron  
 \*BT1 isochronous cyclotrons

**munich cyclotron**

INIS: 2000-04-12; ETDE: 1983-03-24  
 (Prior to March 1991 this was a valid ETDE descriptor.)  
 USE munich compact cyclotron

**munich research reactor**

USE frm reactor

**munich superconducting sector cyclotron**

INIS: 1993-11-09; ETDE: 1984-08-20  
 USE munich suse cyclotron

**MUNICH SUSE CYCLOTRON**

INIS: 1984-07-20; ETDE: 1984-08-20  
 UF munich superconducting sector cyclotron  
 UF suse cyclotron (munich)  
 \*BT1 heavy ion accelerators  
 \*BT1 isochronous cyclotrons

**municipal buildings**

INIS: 2000-04-12; ETDE: 1981-01-09  
 USE public buildings

**municipal law**

INIS: 1990-12-15; ETDE: 2002-03-28  
 (Prior to December 1990, this was a valid descriptor.)  
 USE laws

**municipal sludge**

INIS: 1977-11-21; ETDE: 2002-03-28  
 USE sewage sludge

**MUNICIPAL WASTES**

INIS: 1985-07-18; ETDE: 1975-11-11  
*Wastes generated in households, commercial and business establishments, schools, hospitals, etc. It excludes industrial and biological wastes, abandoned automobiles, ashes, street sweepings, construction and demolition debris, and sewage sludge. See also INDUSTRIAL WASTES, BIOLOGICAL WASTES, ASHES, and SEWAGE SLUDGE.*  
 (Prior to August 1985 DOMESTIC WASTES was a valid descriptor.)  
 UF domestic wastes  
 BT1 wastes  
 RT chemical wastes  
 RT pollutants  
 RT refuse derived fuels  
 RT scrap  
 RT solid wastes

**municipal wastes (biological)**

INIS: 1985-07-18; ETDE: 2002-03-28  
 USE biological wastes

**municipal wastes (industrial)**

INIS: 1985-07-18; ETDE: 2002-03-28  
 USE industrial wastes

**munitions**

INIS: 2000-04-12; ETDE: 1975-08-19  
 (Prior to March 1997 ORDNANCE was used for this concept in ETDE.)  
 USE military equipment

**MUNTZ METAL**

2000-04-12  
 \*BT1 copper base alloys  
 \*BT1 zinc alloys  
 RT brass

**MUON ANTINEUTRINOS**

\*BT1 antineutrinos  
 \*BT1 muon neutrinos

**MUON-ATOM COLLISIONS**

INIS: 1986-01-21; ETDE: 1986-03-04  
 \*BT1 atom collisions

**MUON BEAMS**

\*BT1 lepton beams  
 RT muon probes

**MUON-CATALYZED FUSION**

INIS: 1985-04-22; ETDE: 1985-05-07  
 \*BT1 thermonuclear reactions  
 RT deuterium tritide  
 RT muonic molecules  
 RT muons minus

**MUON DETECTION**

\*BT1 charged particle detection  
 RT cosmic ray detection  
 RT dumand project

**muon-deuteron interactions**

(Prior to March 1996 this was a valid ETDE descriptor.)  
 USE muon-neutron interactions  
 USE muon-proton interactions

**MUON-MESON INTERACTIONS**

(From December 1977 until March 1996 MUON-PION INTERACTIONS was a valid ETDE descriptor.)  
 UF muon-pion interactions  
 \*BT1 lepton-meson interactions

**MUON-MUON INTERACTIONS**

\*BT1 lepton-lepton interactions

**MUON NEUTRINOS**

UF neutrettos  
 \*BT1 neutrinos  
 NT1 muon antineutrinos

**MUON-NEUTRON INTERACTIONS**

(From February 1975 until March 1996 MUON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)  
 UF muon-deuteron interactions  
 \*BT1 muon-nucleon interactions

**MUON-NUCLEON INTERACTIONS**

\*BT1 lepton-nucleon interactions  
 NT1 muon-neutron interactions  
 NT1 muon-proton interactions

**MUON NUMBER**

INIS: 1978-02-23; ETDE: 1978-04-28  
 BT1 lepton number  
 RT muons

**MUON PAIRS**

INIS: 1975-09-16; ETDE: 1975-10-28

- RT muons minus
- RT muons plus
- RT pair production

**muon-pion interactions**

INIS: 2000-04-12; ETDE: 1977-12-22

(Prior to March 1996 this was a valid ETDE descriptor.)

- USE muon-meson interactions
- USE pions

**MUON PROBES**

INIS: 1975-08-22; ETDE: 1976-08-24

*Polarized positive muon beams used to investigate properties of condensed matter.*

- BT1 probes
- RT muon beams
- RT muon spin relaxation
- RT muonium
- RT muons plus

**MUON-PROTON INTERACTIONS**

(From February 1975 until March 1996 MUON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

- UF muon-deuteron interactions
- \*BT1 muon-nucleon interactions

**MUON REACTIONS**

- \*BT1 charged-particle reactions
- \*BT1 lepton reactions

**MUON SPIN RELAXATION**

INIS: 1988-02-02; ETDE: 1986-11-20

*A means of studying the magnetic properties of a material by stopping polarized muons in the material and measuring the muon spin dynamics there.*

- UF mu sr
- UF muon spin resonance
- UF muon spin rotation
- BT1 relaxation
- RT crystal lattices
- RT magnetic properties
- RT magnetic resonance
- RT muon probes
- RT spin orientation

**muon spin resonance**

INIS: 1988-02-02; ETDE: 1986-11-20

- USE muon spin relaxation

**muon spin rotation**

INIS: 1988-02-02; ETDE: 1986-11-20

- USE muon spin relaxation

**MUONIC ATOMS**

1999-03-18

- BT1 atoms
- RT mesic atoms
- RT muonic ions
- RT muonic molecules
- RT muons minus
- RT pi-mu atoms

**MUONIC IONS**

INIS: 1978-01-13; ETDE: 1978-03-03

- \*BT1 ions
- RT muonic atoms
- RT muonic molecules

**MUONIC MOLECULES**

- \*BT1 mesic molecules
- RT muon-catalyzed fusion
- RT muonic atoms
- RT muonic ions
- RT muons minus
- RT muons plus

**MUONIUM**

- RT atoms
- RT charmonium
- RT electrons
- RT kaonium
- RT muon probes
- RT muons plus
- RT pionium
- RT positronium
- RT protonium

**MUONS**

- \*BT1 leptons
- NT1 cosmic muons
- NT1 muons minus
- NT1 muons plus
- RT electron-muon-tau universality
- RT electron-muon universality
- RT heavy neutral muons
- RT muon number
- RT pi-mu atoms

**muons, heavy neutral**

INIS: 2000-04-12; ETDE: 1979-08-09

- USE heavy neutral muons

**MUONS MINUS**

- \*BT1 muons
- RT muon-catalyzed fusion
- RT muon pairs
- RT muonic atoms
- RT muonic molecules

**MUONS PLUS**

- UF antimuons
- \*BT1 antileptons
- \*BT1 muons
- RT muon pairs
- RT muon probes
- RT muonic molecules
- RT muonium

**MURA SYNCHROTRON**

UF mark v synchrotron

- \*BT1 synchrotrons

**murexide**

1996-07-18

*Also known as purpuric acid.*

(Until July 1996 this was a valid descriptor.)

- USE dyes
- USE organic oxygen compounds
- USE pyrimidines

**MURR REACTOR**

Univ. of Missouri, Columbia, Missouri, USA.

UF columbia missouri research reactor

UF missouri university/columbia research reactor

UF university of missouri/columbia research reactor

- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 training reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**musashi institute of technology triga reactor**

1993-11-09

- USE triga-2-musashi reactor

**MUSCLES**

- UF muscular tissue
- NT1 diaphragm
- NT1 myoblasts
- NT1 myocardium
- RT actin
- RT exercise
- RT limbs

- RT myoglobin
- RT myosarcomas
- RT radiation syndrome
- RT sarcoplasmic reticulum
- RT tendons
- RT tongue
- RT trichinosis
- RT tropomyosin

**MUSCOVITE**

*A mineral of the mica group.*

- \*BT1 mica

**musculamine**

- USE spermine

**muscular tissue**

(Prior to April 1996 TISSUES was used instead of ANIMAL TISSUES.)

- USE animal tissues
- USE muscles

**museum objects**

INIS: 1984-04-04; ETDE: 2002-03-28

- USE cultural objects

**museums**

INIS: 1983-06-30; ETDE: 1979-07-24

- USE educational facilities

**MUSHROOMS**

- \*BT1 fungi

**MUSSELS**

INIS: 1992-03-10; ETDE: 1981-06-17

- \*BT1 molluscs

**mustard**

- USE brassica

**mustard (nitrogen)**

- USE nitrogen mustard

**MUTAGEN SCREENING**

INIS: 1992-03-10; ETDE: 1978-11-14

- UF ames test
- UF screening (mutagen)
- RT biological indicators
- RT carcinogen screening
- RT cell cultures
- RT mutagenesis
- RT mutagens
- RT mutants
- RT mutations
- RT teratogen screening
- RT testing

**MUTAGENESIS**

- RT dna adducts
- RT doxorubicin
- RT genetic control
- RT genotype
- RT mutagen screening
- RT mutagens
- RT mutants
- RT mutations

**mutagenic pathways**

INIS: 1978-11-24; ETDE: 1978-12-20

- USE biological pathways

**MUTAGENS**

*For both chemical and physical agents.*

- UF chemical mutagens
- NT1 ethyl methanesulfonate
- NT1 methyl methanesulfonate
- NT1 methyl nitrosourea
- NT1 proflavine
- RT antibiotics
- RT antimitotic drugs
- RT carcinogens
- RT dna adducts

RT drugs  
 RT environmental exposure  
 RT ionizing radiations  
 RT mutagen screening  
 RT mutagenesis  
 RT neocarcinostatin  
 RT nitrogen mustard  
 RT nitrosamines  
 RT occupational exposure  
 RT pesticides  
 RT plant breeding  
 RT polycyclic aromatic hydrocarbons  
 RT radiation equivalence  
 RT radiomimetic drugs  
 RT teratogens  
 RT tumor promoters  
 RT viruses

**MUTANTS**

NT1 radiation induced mutants  
 NT1 revertants  
 RT adventitious bud technique  
 RT disease resistance  
 RT hereditary diseases  
 RT mutagen screening  
 RT mutagenesis  
 RT mutations  
 RT plant breeding

**MUTATION FREQUENCY**

UF *aberration yield*  
 RT mutations

**mutation induction pathways**

INIS: 1978-11-24; ETDE: 1978-12-20  
 USE biological pathways

**MUTATIONS**

NT1 chromosomal aberrations  
 NT2 chromosome breakage  
 NT2 sister chromatid exchanges  
 NT1 dominant mutations  
 NT1 gene mutations  
 NT1 genome mutations  
 NT1 lethal mutations  
 NT1 recessive mutations  
 NT1 somatic mutations  
 NT1 spontaneous mutations  
 RT adventitious bud technique  
 RT congenital malformations  
 RT dna base transitions  
 RT dna mismatch  
 RT genetic control  
 RT genetic effects  
 RT hereditary diseases  
 RT meiosis  
 RT mosaicism  
 RT mutagen screening  
 RT mutagenesis  
 RT mutants  
 RT mutation frequency  
 RT plant breeding  
 RT pyrimidine dimers  
 RT reproduction  
 RT revertants

**mutsu (nuclear ship)**

USE ns mutsu

**MUTSU REACTOR**

JAERI, Mutsu, Aomori, Japan.  
 UF *japan ship reactor mutsu*  
 UF *nuclear ship mutsu reactor*  
 UF *ship reactor mutsu*  
 \*BT1 pwr type reactors  
 \*BT1 ship propulsion reactors  
 RT ns mutsu

**mutualism**

INIS: 1984-12-04; ETDE: 1980-01-15  
 USE symbiosis

**MWD SYSTEMS**

INIS: 1992-08-13; ETDE: 1978-12-11  
*Sensors and data transmission equipment for real-time measurements while drilling.*  
 UF *downhole information systems*  
 UF *logging while drilling*  
 UF *measurement while drilling*  
 SF *sigalog*  
 BT1 real time systems  
 RT drilling  
 RT offshore drilling  
 RT on-line systems  
 RT telemetry  
 RT well drilling  
 RT well logging  
 RT well logging equipment

**mwpc**

USE multiwire proportional chambers

**mx devices**

INIS: 2000-04-12; ETDE: 1977-10-20  
 USE mftf devices

**MYANMAR**

1999-01-26  
 (Until January 1999 this concept was indexed by BURMA.)  
 UF *burma*  
 BT1 asia  
 BT1 developing countries

**MYCELIIUM**

BT1 plant tissues  
 RT fungi

**MYCOBACTERIUM**

\*BT1 bacteria  
 NT1 mycobacterium tuberculosis  
 RT leprosy

**MYCOBACTERIUM TUBERCULOSIS**

\*BT1 mycobacterium  
 RT tuberculosis

**MYCOPLASMA**

BT1 microorganisms  
 NT1 achleoplasma laidlawii b  
 RT bacteria

**MYCORRHIZAS**

INIS: 1999-10-21; ETDE: 1977-06-02  
*A symbiotic association of fungi and the roots of plants.*  
 BT1 symbiosis  
 RT frankia  
 RT fungi  
 RT locust trees

**MYCOSES**

\*BT1 fungal diseases  
 RT fungi

**MYCOTOXINS**

INIS: 1992-09-09; ETDE: 1994-08-10  
 \*BT1 toxins  
 NT1 aflatoxins  
 RT fungi  
 RT toxicity

**MYELIN**

\*BT1 cell membranes  
 \*BT1 lipoproteins  
 RT cholesterol  
 RT nerve cells  
 RT nerves

**MYELITIS**

\*BT1 nervous system diseases  
 NT1 poliomyelitis  
 RT spinal cord

**MYELOID LEUKEMIA**

\*BT1 leukemia  
 RT philadelphia chromosome  
 RT polycythemia

**MYLAR**

\*BT1 plastics  
 \*BT1 polyesters  
 RT glycols

**MYLERAN**

UF *busulfan*  
 BT1 alkylating agents

**MYOBLASTS**

BT1 muscles  
 RT myocardium

**MYOCARDIAL INFARCTION**

\*BT1 cardiovascular diseases  
 RT blood circulation  
 RT coronaries  
 RT ischemia  
 RT myocardium

**MYOCARDIUM**

\*BT1 heart  
 BT1 muscles  
 RT coronaries  
 RT myoblasts  
 RT myocardial infarction

**MYOGLOBIN**

\*BT1 globins  
 BT1 pigments  
 \*BT1 porphyrins  
 RT muscles

**myometrium**

USE uterus

**MYOSARCOMAS**

\*BT1 sarcomas  
 NT1 rhabdomyosarcomas  
 RT muscles

**MYOSIN**

\*BT1 globulins  
 RT tropomyosin

**myristic acid**

USE tetradecanoic acid

**myxedema**

USE hypothyroidism

**MYXOMYCETES**

UF *slime fungi*  
 \*BT1 fungi

**MZFR REACTOR**

*Forschungszentrum Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany.*  
 UF *mehrzweck-forschungsreaktor*  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 \*BT1 power reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**n,n-ethylenebis(2-(o-hydroxyphenyl)glycine)**

INIS: 2000-04-12; ETDE: 1976-06-07  
 USE eddha

**n-1150 resonances**

INIS: 1988-03-08; ETDE: 2002-04-19  
 (Prior to December 1987 this was a valid descriptor.)  
 SEE n\*baryons

**N-1440 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-11*  
(Prior to December 1987 this concept was indexed by N-1470RESONANCES.)

*UF n-1470 resonances*  
*UF roper resonance*  
\*BT1 n baryons

**n-1470 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE n-1440 baryons

**N-1520 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-11*  
(Prior to December 1987 this concept was indexed by N-1520RESONANCES.)

*UF n-1520 resonances*  
\*BT1 n baryons

**n-1520 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE n-1520 baryons

**N-1535 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-11*  
(Prior to December 1987 this concept was indexed by N-1535RESONANCES.)

*UF n-1535 resonances*  
\*BT1 n baryons

**n-1535 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE n-1535 baryons

**N-1650 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-11*  
\*BT1 n baryons

**N-1675 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-11*  
\*BT1 n baryons

**N-1680 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-11*  
(Prior to December 1987 this concept was indexed by N-1680RESONANCES.)

*UF n-1680 resonances*  
*UF n-1688 resonances*  
\*BT1 n baryons

**n-1680 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE n-1680 baryons

**n-1688 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE n-1680 baryons

**N-1700 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-11*  
(Prior to December 1987 this concept was indexed by N-1700RESONANCES.)

*UF n-1700 resonances*  
\*BT1 n baryons

**n-1700 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE n-1700 baryons

**N-1710 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-11*  
\*BT1 n baryons

**N-1720 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-11*  
\*BT1 n baryons

**n-1780 resonances**

1988-03-08  
(Prior to December 1987 this was a valid descriptor.)  
SEE n\*baryons

**n-1860 resonances**

1988-03-08  
(Prior to December 1987 this was a valid descriptor.)  
SEE n\*baryons

**N-1960 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-16*  
\*BT1 n baryons

**N-1990 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-16*  
(Prior to December 1987 this concept was indexed by N-1990RESONANCES.)

*UF n-1990 resonances*  
\*BT1 n baryons

**n-1990 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE n-1990 baryons

**N-2000 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-16*  
\*BT1 n baryons

**n-2040 resonances**

1988-03-08  
(Prior to December 1987 this was a valid descriptor.)  
SEE n\*baryons

**N-2080 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-16*  
\*BT1 n baryons

**N-2100 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-16*  
\*BT1 n baryons

**N-2190 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-16*  
(Prior to December 1987 this concept was indexed by N-2190RESONANCES.)

*UF n-2190 resonances*  
\*BT1 n baryons

**n-2190 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE n-2190 baryons

**N-2250 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-16*  
\*BT1 n baryons

**N-3000 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-16*  
(Prior to December 1987 this concept was indexed by N-3030RESONANCES.)

*UF n-3030 resonances*  
\*BT1 n baryons

**n-3030 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE n-3000 baryons

**N BARYONS**

*INIS: 1995-07-17; ETDE: 1988-03-11*

\*BT1 n\*baryons  
NT1 n-1440 baryons  
NT1 n-1520 baryons  
NT1 n-1535 baryons  
NT1 n-1650 baryons  
NT1 n-1675 baryons  
NT1 n-1680 baryons  
NT1 n-1700 baryons  
NT1 n-1710 baryons  
NT1 n-1720 baryons  
NT1 n-1960 baryons  
NT1 n-1990 baryons  
NT1 n-2000 baryons  
NT1 n-2080 baryons  
NT1 n-2100 baryons  
NT1 n-2190 baryons  
NT1 n-2250 baryons  
NT1 n-3000 baryons

**N CODES**

BT1 computer codes

**N-D METHOD**

BT1 calculation methods  
RT dispersion relations  
RT partial waves

**n-ethyl maleimide**

*INIS: 1976-05-07; ETDE: 1976-08-24*  
USE nem

**n-o-iodobenzoylaminoacetate**

*INIS: 1975-10-23; ETDE: 2002-04-16*  
USE hippuran

**N-REACTOR**

*US DOE, Hanford Reservation, Richland, Washington, USA. Shut down in 1988; being cocooned.*

*UF npr reactor*  
*UF power-plutonium production reactor richland*  
*UF richland npr reactor*  
*UF richland power-plutonium production reactor*

\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 plutonium production reactors  
\*BT1 power reactors  
RT wnp-1 reactor

**N SHELL**

*INIS: 1979-11-02; ETDE: 1978-10-23*  
*Atomic electron shells.*  
*UF atomic shells (n)*  
BT1 electronic structure

**N-TYPE CONDUCTORS**

\*BT1 semiconductor materials  
RT p-n junctions

**N\*BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
(Prior to December 1987 this concept was indexed by N\*RESONANCES.)

*UF delta resonances (baryon)*  
*UF isobars (nucleon)*  
*UF n\*resonances*  
*UF nucleon isobars*  
*SF delta-1877 resonances*  
*SF n-1150 resonances*  
*SF n-1780 resonances*  
*SF n-1860 resonances*



*SF* *n-2040 resonances*  
 \*BT1 baryons  
**NT1** delta baryons  
**NT2** delta-1232 baryons  
**NT2** delta-1600 baryons  
**NT2** delta-1620 baryons  
**NT2** delta-1700 baryons  
**NT2** delta-1900 baryons  
**NT2** delta-1905 baryons  
**NT2** delta-1910 baryons  
**NT2** delta-1920 baryons  
**NT2** delta-1930 baryons  
**NT2** delta-1950 baryons  
**NT2** delta-2000 baryons  
**NT2** delta-2150 baryons  
**NT2** delta-2200 baryons  
**NT2** delta-2400 baryons  
**NT2** delta-2420 baryons  
**NT2** delta-3000 baryons  
**NT1** n baryons  
**NT2** n-1440 baryons  
**NT2** n-1520 baryons  
**NT2** n-1535 baryons  
**NT2** n-1650 baryons  
**NT2** n-1675 baryons  
**NT2** n-1680 baryons  
**NT2** n-1700 baryons  
**NT2** n-1710 baryons  
**NT2** n-1720 baryons  
**NT2** n-1960 baryons  
**NT2** n-1990 baryons  
**NT2** n-2000 baryons  
**NT2** n-2080 baryons  
**NT2** n-2100 baryons  
**NT2** n-2190 baryons  
**NT2** n-2250 baryons  
**NT2** n-3000 baryons  
*RT* fractional-parentage coefficients

**n\*resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE n\*baryons

**naa**

2002-11-25  
 USE neutron activation analysis

**NABARLEK DEPOSIT**

*INIS: 1978-07-03; ETDE: 1978-08-07*  
 \*BT1 uranium deposits  
*RT* northern territory  
*RT* uranium ores

**NAC CYCLOTRON**

*INIS: 1983-06-01; ETDE: 1983-07-07*  
*Separated-sector cyclotron of the National Accelerator Centre, Faure, Republic of South Africa.*  
*UF faure cyclotron*  
*UF nacssc*  
*UF national accelerator center (south africa) cyclotron*  
*UF south africa nac cyclotron*  
 \*BT1 heavy ion accelerators  
 \*BT1 isochronous cyclotrons

**nacssc**

*INIS: 1984-04-04; ETDE: 1983-03-24*  
*Separated-sector cyclotron of the National Accelerator Centre, Faure, Republic of South Africa.*  
 USE nac cyclotron

**NAD**

*Nicotinamide-Adenine Dinucleotide.*  
*UF coenzyme i*  
*UF nicotinamide-adenine dinucleotide*  
 BT1 coenzymes  
 \*BT1 nucleotides

*RT* nicotinamide  
*RT* pyridines

**NADH2**

*UF diphosphodihydropyridine nucleotide*  
*UF reduced nicotinamide-adenine dinucleotide*  
 BT1 coenzymes  
 \*BT1 nucleotides  
*RT* nicotinamide

**NADP**

*Nicotinamide-Adenine Dinucleotide Phosphate.*  
*UF coenzyme ii*  
*UF nicotinamide-adenine dinucleotide phosphate*  
 BT1 coenzymes  
 \*BT1 nucleotides  
*RT* nicotinamide

**NAEGITE**

2000-04-12  
 \*BT1 oxide minerals  
 \*BT1 thorium minerals  
 \*BT1 uranium minerals  
*RT* thorium oxides  
*RT* uranium oxides  
*RT* zirconium oxides

**NAGASAKI**

\*BT1 japan  
*RT* a-bomb survivors  
*RT* nuclear explosions  
*RT* nuclear weapons

**NAHCOLITE**

2000-04-12  
*White monoclinic mineral consisting of natural sodium bicarbonate.*  
 \*BT1 carbonate minerals  
*RT* integrated in-situ process  
*RT* sodium carbonates

**NAI DETECTORS**

*INIS: 1979-09-18; ETDE: 1979-02-05*  
*UF sodium iodide detectors*  
 \*BT1 solid scintillation detectors

**NAILS**

\*BT1 skin  
*RT* fingers

**nak**

*INIS: 1986-03-04; ETDE: 2002-04-16*  
*Use the descriptors below or their appropriate narrower terms.*  
 USE potassium alloys  
 USE sodium alloys

**NAK COOLED REACTORS**

1986-03-04  
 (Prior to March 1986 this concept was indexed by coordination of POTASSIUM COOLED REACTORS and SODIUM COOLED REACTORS.)  
 \*BT1 liquid metal cooled reactors  
**NT1** ebr-1 reactor  
**NT1** s10fs-1 reactor  
**NT1** s10fs-3 reactor  
**NT1** s10fs-4 reactor  
**NT1** s2ds reactor  
**NT1** s8dr reactor  
**NT1** s8er reactor  
**NT1** ser reactor  
**NT1** snaptran reactors  
*RT* potassium cooled reactors  
*RT* sodium cooled reactors

**nal synchrotron**

*INIS: 1990-12-07; ETDE: 1975-11-12*  
 (Prior to December 1990, this was a valid descriptor.)  
 USE fermilab accelerator

**NAMAFJALL GEOTHERMAL FIELD**

2000-04-12  
 BT1 geothermal fields  
*RT* iceland

**NAMIBIA**

*INIS: 1992-04-24; ETDE: 1984-06-29*  
*Until July 1984 this country was known as South West Africa and older material is so indexed.*  
*UF south west africa*  
*UF southwest africa*  
 BT1 africa  
*RT* south africa

**NANO AMP BEAM CURRENTS**

*INIS: 1976-02-11; ETDE: 1975-10-28*  
*From 10 exp -9 to 10 exp -6 amp.*  
 \*BT1 beam currents

**NANOSECONDS LIVING RADIOISOTOPES**

1980-11-07  
 (From 10 exp -9 to 10 exp -6 sec; prior to June 2003 NANOSEC LIVING RADIOISOTOPES was used for this concept.)

\*BT1 radioisotopes  
**NT1** actinium 217  
**NT1** aluminium 40  
**NT1** antimony 113  
**NT1** antimony 117  
**NT1** argon 30  
**NT1** astatine 213  
**NT1** astatine 214  
**NT1** barium 138  
**NT1** bismuth 211  
**NT1** bromine 83  
**NT1** calcium 34  
**NT1** carbon 21  
**NT1** chlorine 29  
**NT1** chlorine 30  
**NT1** chromium 65  
**NT1** chromium 66  
**NT1** cobalt 49  
**NT1** fermium 256  
**NT1** fluorine 18  
**NT1** fluorine 28  
**NT1** fluorine 30  
**NT1** fluorine 31  
**NT1** francium 211  
**NT1** francium 212  
**NT1** francium 213  
**NT1** francium 215  
**NT1** francium 216  
**NT1** gadolinium 136  
**NT1** gadolinium 147  
**NT1** gadolinium 148  
**NT1** germanium 86  
**NT1** germanium 88  
**NT1** germanium 89  
**NT1** krypton 86  
**NT1** krypton 97  
**NT1** lead 194  
**NT1** lead 200  
**NT1** magnesium 37  
**NT1** magnesium 39  
**NT1** manganese 45  
**NT1** molybdenum 92  
**NT1** molybdenum 94  
**NT1** neon 33  
**NT1** neptunium 237  
**NT1** osmium 182  
**NT1** oxygen 25  
**NT1** oxygen 26

NT1 oxygen 27  
 NT1 phosphorus 25  
 NT1 plutonium 237  
 NT1 polonium 210  
 NT1 polonium 212  
 NT1 potassium 40  
 NT1 protactinium 219  
 NT1 protactinium 220  
 NT1 radium 216  
 NT1 radon 210  
 NT1 radon 211  
 NT1 radon 214  
 NT1 rhodium 90  
 NT1 rhodium 91  
 NT1 rubidium 85  
 NT1 scandium 38  
 NT1 selenium 64  
 NT1 sodium 22  
 NT1 tellurium 105  
 NT1 thorium 218  
 NT1 titanium 58  
 NT1 titanium 59  
 NT1 vanadium 61  
 NT1 vanadium 62  
 NT1 vanadium 63  
 NT1 zirconium 109  
 RT half-life  
 RT lifetime

**NANOSTRUCTURES**

INIS: 2003-03-18; ETDE: 2003-11-03  
*Components, devices, or structures in the nanometer size range, where quantum effects are often seen. Coordinate with other descriptors as appropriate.*  
 (From March to October 2003 NANOSTRUCTURE was used for this concept.)

SF nanotechnology  
 NT1 nanotubes  
 NT1 quantum dots  
 NT1 quantum wells  
 NT1 quantum wires  
 RT electronic structure  
 RT electrons  
 RT microstructure  
 RT semiconductor materials  
 RT solids

**nanotechnology**

2003-11-03  
 SEE appropriate technology  
 SEE nanostructures  
 SEE technology utilization

**NANOTUBES**

2003-11-03  
 BT1 nanostructures

**NAP-M STORAGE RING**

INIS: 1975-08-22; ETDE: 1975-10-01  
 BT1 storage rings

**napap**

INIS: 2000-04-12; ETDE: 1984-12-10  
 (Prior to October 1991, this was a valid ETDE descriptor.)  
 USE us napap

**NAPHTHA**

2000-04-12  
*Fraction of coal tar oil distilling in range 160-220C; petroleum distilling in range 175-204C.*  
 BT1 distillates  
 NT1 ligroin  
 RT petroleum products

**NAPHTHALENE**

\*BT1 condensed aromatics  
 \*BT1 hydrocarbons  
 RT acenaphthene

RT decalin  
 RT tetralin

**naphthalic acid**

USE phthalic acid

**naphthenes**

INIS: 2000-04-12; ETDE: 1977-03-08  
 USE hydroaromatics

**NAPHTHOLS**

1996-10-22  
 UF acid chrome dyes  
 UF beryllon  
 UF dsnadns  
 UF hydroxynaphthalenes  
 UF naphthols-alpha  
 UF naphthols-beta  
 \*BT1 phenols  
 NT1 1-nitroso-2-naphthol  
 NT1 nitroso-r salt  
 NT1 pyridylazonaphthol  
 NT1 thorin  
 NT1 trypan blue

**naphthols-alpha**

USE naphthols

**naphthols-beta**

USE naphthols

**NAPHTHYL RADICALS**

\*BT1 aryl radicals

**NARCOTICS**

1996-07-08  
 UF opiates  
 \*BT1 central nervous system depressants  
 NT1 heroin  
 NT1 methadone hydrochloride  
 NT1 opium  
 NT2 morphine  
 NT3 thebaine  
 NT1 pethidine  
 RT analgesics  
 RT anesthetics  
 RT enkephalins  
 RT hypnotics and sedatives

**NARORA-1 REACTOR**

Narora, Uttar Pradesh, India.  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 \*BT1 power reactors

**NARORA-2 REACTOR**

Narora, Uttar Pradesh, India.  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 \*BT1 power reactors

**NASA**

UF national aeronautics and space administration  
 \*BT1 us organizations

**nasa-test reactor**

Plum Brook Reactor Facility.  
 USE pbr reactor

**nasa-tr reactor**

Plum Brook Reactor Facility.  
 USE pbr reactor

**nasopharynx**

USE pharynx

**national accelerator center (south africa) cyclotron**

INIS: 1993-11-09; ETDE: 2002-04-16  
 USE nac cyclotron

**national accelerator laboratory**

2000-04-12  
 USE fermilab accelerator

**national acid precipitation assessment program**

INIS: 2000-04-12; ETDE: 1984-12-10  
 USE us napap

**national aeronautics and space administration**

1993-11-09  
 USE nasa

**national bureau of standards**

INIS: 1979-02-21; ETDE: 1978-04-06  
 USE us nbs

**national bureau of standards reactor**

1993-11-09  
 USE nbsr reactor

**national center of systems reliability**

INIS: 1993-11-09; ETDE: 2002-04-16  
 National Centre of Systems Reliability.  
 USE ncsr

**NATIONAL COAL MODEL**

INIS: 2000-04-12; ETDE: 1980-08-12  
 BT1 energy models  
 RT coal

**NATIONAL CONTROL**

\*BT1 atomic energy control  
 RT reactor commissioning  
 RT reactor decommissioning  
 RT reactor dismantling

**national council on radiation protection/measurements (us)**

USE us ncrp

**NATIONAL DEFENSE**

UF defense  
 SF defense production act  
 NT1 ballistic missile defense  
 NT1 civil defense  
 RT military assistance  
 RT military facilities  
 RT missile silos  
 RT nuclear weapons  
 RT space weapons  
 RT warfare

**national electric reliability councils**

INIS: 2000-04-12; ETDE: 1979-09-27  
 USE electric reliability councils

**NATIONAL ENERGY ACTS**

INIS: 1994-08-22; ETDE: 1993-08-10  
 (Prior to February 1992 this was a valid ETDE descriptor. From February 1992 to August 1993 this concept in ETDE was indexed to US NATIONAL ENERGY ACT.)

UF us national energy act  
 BT1 laws  
 NT1 us energy tax act  
 NT1 us national energy conservation policy act  
 NT1 us natural gas policy act  
 NT1 us power plant and industrial fuel use act  
 NT1 us public utility regulatory policies act  
 RT national energy plans  
 RT us national energy plan  
 RT us national program plans

**NATIONAL ENERGY  
CONSERVATION INCENTIVES  
ACT**

INIS: 2000-04-12; ETDE: 1979-11-23

- BT1 laws
- RT energy conservation
- RT financial incentives

***national energy conservation policy  
act***

INIS: 2000-04-12; ETDE: 1981-05-18  
(Prior to February 1992 this was a valid ETDE descriptor.)

- USE us national energy conservation policy act

**NATIONAL ENERGY PLANS**

INIS: 1992-08-27; ETDE: 1992-09-11

- \*BT1 energy policy
- NT1 us national energy plan
- RT energy conservation
- RT national energy acts

***national energy security corporation***

INIS: 2000-04-12; ETDE: 1980-07-23

- USE synthetic fuels corporation

***national enterprises***

INIS: 2000-04-12; ETDE: 1979-07-24

- USE public enterprises

***national environmental policy act***

2000-04-12

(Prior to January 1992 this was a valid ETDE descriptor.)

- USE us national environmental policy act

**NATIONAL GOVERNMENT**

INIS: 1980-11-07; ETDE: 1978-03-09

Use only when needed to make a distinction with the terms local government and/or state government.

- UF federal expenditures
- UF federal government
- RT centrally planned economies
- RT government policies
- RT institutional sector
- RT legislation
- RT local government
- RT national organizations
- RT public officials
- RT regulations
- RT state government
- RT us federal assistance programs

***national ignition facility***

INIS: 2000-04-12; ETDE: 1997-05-21

Facility for inertial confinement fusion.

- USE us national ignition facility

***national institute for occupational  
safety and health***

INIS: 2000-04-12; ETDE: 1980-03-29

- USE us niosh

***national institute for petroleum and  
energy research***

INIS: 1993-11-09; ETDE: 1984-06-29

- USE us niper

***national institute of radiological  
science cyclotron***

INIS: 1993-11-09; ETDE: 1980-01-24

- USE nirs cyclotron

***national instituut voor kernfysica en  
hogeenergiefysica***

INIS: 1993-11-09; ETDE: 1977-10-19

- USE nikhef

***national oceanic and atmospheric  
administration***

INIS: 2000-04-12; ETDE: 1980-01-24

- USE us noaa

**NATIONAL ORGANIZATIONS**

- NT1 afghan organizations
- NT1 albanian organizations
- NT1 algerian organizations
- NT1 argentine organizations
- NT2 argentine arn
- NT2 argentine cnea
- NT2 argentine invap
- NT1 armenian organizations
- NT1 australian organizations
- NT2 ansto
- NT1 austrian organizations
- NT2 seibersdorf research centre
- NT1 bangladesh organizations
- NT1 belgian organizations
- NT1 brazilian organizations
- NT2 brazilian cnen
- NT2 brazilian lnls
- NT2 nuclebras
- NT1 bulgarian organizations
- NT1 canadian organizations
- NT2 atomic energy of canada ltd
- NT3 chalk river nuclear labs
- NT3 wnre
- NT2 canadian aecb
- NT1 chilean organizations
- NT1 chinese organizations
- NT2 chinese nnsa
- NT2 ciae
- NT1 colombian organizations
- NT2 ian
- NT1 croatian organizations
- NT1 cuban organizations
- NT1 czech organizations
- NT2 sujb
- NT2 ujb
- NT2 uvvvr
- NT1 danish organizations
- NT2 danish atomic energy commission
- NT2 risoe national laboratory
- NT3 risoe research establishment
- NT1 egyptian organizations
- NT2 egyptian atomic energy commission
- NT1 estonian organizations
- NT1 finnish organizations
- NT1 french organizations
- NT2 cea
- NT3 cea bruyeres-le-chatel
- NT3 cea cadarache
- NT3 cea fontenay-aux-roses
- NT3 cea grenoble
- NT3 cea la hague
- NT3 cea marcoule
- NT3 cea pierrelatte
- NT3 cea saclay
- NT2 cogema
- NT3 cogema la hague
- NT3 cogema marcoule
- NT3 cogema pierrelatte
- NT2 electricite de france
- NT1 german fr organizations
- NT2 bundesamt fuer strahlenschutz
- NT2 forschungszentrum juelich
- NT2 forschungszentrum karlsruhe
- NT2 gesellschaft fuer anlagen- und reaktorsicherheit
- NT2 ipp garching
- NT2 reaktorsicherheitskommission
- NT2 strahlenschutzkommission
- NT2 wak
- NT2 zfi leipzig
- NT2 zfk rossendorf
- NT1 ghanaian organizations
- NT1 greek organizations

- NT1 hungarian organizations
- NT2 atomki
- NT1 indian organizations
- NT2 barc
- NT2 igcar
- NT1 indonesian organizations
- NT1 iranian organizations
- NT2 iranian atomic energy organization
- NT2 tehran nuclear research centre
- NT1 iraqi organizations
- NT2 iraqi atomic energy commission
- NT3 iraqi nuclear research centre
- NT1 israeli organizations
- NT2 israel atomic energy commission
- NT3 negev nuclear research center
- NT3 soreq nuclear research center
- NT1 italian organizations
- NT2 cise
- NT2 italian enea
- NT3 cnen
- NT2 italian enel
- NT1 japanese organizations
- NT2 jaea
- NT2 jaeri
- NT2 jnc
- NT2 jnes
- NT2 jnsda
- NT2 pne
- NT1 jordanian organizations
- NT1 kazakhstan organizations
- NT1 korean organizations
- NT2 kaeri
- NT1 latvian organizations
- NT1 lebanese organizations
- NT1 lithuanian organizations
- NT1 macedonian organizations
- NT1 malaysian organizations
- NT2 mint
- NT2 pusapati
- NT1 mexican organizations
- NT1 moroccan organizations
- NT1 netherlands organizations
- NT2 ecn
- NT3 rcn
- NT2 iko
- NT2 iri
- NT2 kvi
- NT2 nikhef
- NT1 new zealand organizations
- NT1 norwegian organizations
- NT1 pakistani organizations
- NT1 paraguayian organizations
- NT2 paraguayian cnea
- NT1 philippine organizations
- NT2 philippine nuclear research institute
- NT3 philippine atomic energy commission
- NT3 philippine atomic research center
- NT1 polish organizations
- NT2 panstwowa agencja atomistyki
- NT1 portuguese organizations
- NT1 romanian organizations
- NT1 russian organizations
- NT2 gosatomnadzor rossii
- NT2 ihep
- NT2 st petersburg institute of nuclear physics
- NT1 slovak organizations
- NT2 cyclotron center of the slovak republic
- NT2 ujd
- NT2 vuje
- NT1 slovenian organizations
- NT1 south african organizations
- NT1 spanish organizations
- NT1 swedish organizations
- NT1 swiss organizations
- NT1 syrian organizations
- NT1 thai organizations

- NT1** tunisian organizations  
**NT1** turkish organizations  
**NT2** turkish atomic energy authority  
**NT1** ukrainian organizations  
**NT1** united kingdom organizations  
**NT2** bnfl  
**NT2** british coal  
**NT2** ncsr  
**NT2** nrpb  
**NT2** uk national physical laboratory  
**NT2** uk nii  
**NT2** ukaea  
**NT3** aere  
**NT3** culham laboratory  
**NT1** uruguayan organizations  
**NT1** us organizations  
**NT2** federal radiation council  
**NT2** nasa  
**NT2** national science foundation  
**NT2** naval research laboratory  
**NT2** orau  
**NT2** orins  
**NT2** synthetic fuels corporation  
**NT2** tennessee valley authority  
**NT2** us acda  
**NT2** us aec  
**NT3** ames laboratory  
**NT3** anl  
**NT3** bettis  
**NT3** bnl  
**NT3** feed materials production center  
**NT3** hapo  
**NT3** idaho chemical processing plant  
**NT3** kapl  
**NT3** lawrence berkeley laboratory  
**NT3** lawrence livermore laboratory  
**NT3** mound laboratory  
**NT3** ornl  
**NT3** paducah plant  
**NT3** rocky flats plant  
**NT3** sandia laboratories  
**NT3** savannah river plant  
**NT3** sequoyah uf6 production plant  
**NT3** y-12 plant  
**NT2** us ceq  
**NT2** us cia  
**NT2** us department of treasury  
**NT3** us irs  
**NT2** us doa  
**NT3** us forest service  
**NT3** us rea  
**NT2** us doc  
**NT3** us nbs  
**NT2** us dod  
**NT3** us corps of engineers  
**NT2** us doe  
**NT3** alaska power administration  
**NT3** ames laboratory  
**NT3** anl  
**NT3** atomics international canoga park plant  
**NT3** bartlesville energy technology center  
**NT3** battelle pacific northwest laboratories  
**NT3** bettis  
**NT3** bnl  
**NT3** bonneville power administration  
**NT3** economic regulatory administration  
**NT3** environmental measurements laboratory  
**NT3** feed materials production center  
**NT3** fermilab  
**NT3** hanford engineering development laboratory  
**NT3** hanford reservation  
**NT3** hapo  
**NT3** idaho chemical processing plant  
**NT3** ineel  
**NT3** inhalation toxicology research institute  
**NT3** kansas city plant  
**NT3** kapl  
**NT3** lanl  
**NT3** laramie energy research center  
**NT3** laramie energy technology center  
**NT3** lawrence berkeley laboratory  
**NT3** lawrence livermore national laboratory  
**NT4** lawrence livermore laboratory  
**NT3** morgantown energy technology center  
**NT3** mound laboratory  
**NT3** national renewable energy laboratory  
**NT3** nevada test site  
**NT3** oak ridge reservation  
**NT3** orgdp  
**NT3** ornl  
**NT3** paducah plant  
**NT3** pantex plant  
**NT3** pinellas plant  
**NT3** pittsburgh energy technology center  
**NT3** portsmouth centrifuge enrichment plant  
**NT3** portsmouth gaseous diffusion plant  
**NT3** rocky flats plant  
**NT3** sandia national laboratories  
**NT4** sandia laboratories  
**NT3** savannah river plant  
**NT3** sequoyah uf6 production plant  
**NT3** southeastern power administration  
**NT3** southwestern power administration  
**NT3** stanford linear accelerator center  
**NT3** us doe field offices  
**NT3** us doe inspector general  
**NT3** us energy extension service  
**NT3** us energy information administration  
**NT3** us ferc  
**NT3** us msha  
**NT3** us niper  
**NT3** usur  
**NT3** western area power administration  
**NT3** wipp  
**NT3** y-12 plant  
**NT2** us doi  
**NT3** us bureau of mines  
**NT3** us bureau of reclamation  
**NT3** us fws  
**NT3** us gs  
**NT3** us osm  
**NT2** us doj  
**NT3** federal bureau of investigation  
**NT2** us dol  
**NT3** us osha  
**NT2** us dos  
**NT2** us dot  
**NT3** us coast guard  
**NT3** us faa  
**NT2** us epa  
**NT2** us erda  
**NT3** ames laboratory  
**NT3** anl  
**NT3** atomics international canoga park plant  
**NT3** battelle columbus laboratory  
**NT3** battelle pacific northwest laboratories  
**NT3** bettis  
**NT3** bnl  
**NT3** feed materials production center  
**NT3** hanford reservation  
**NT3** hapo  
**NT3** idaho chemical processing plant  
**NT3** idaho chemical processing plant  
**NT3** kansas city plant  
**NT3** kapl  
**NT3** laramie energy research center  
**NT3** lawrence berkeley laboratory  
**NT3** lawrence livermore laboratory  
**NT3** mound laboratory  
**NT3** oak ridge reservation  
**NT3** orgdp  
**NT3** ornl  
**NT3** paducah plant  
**NT3** pantex plant  
**NT3** pinellas plant  
**NT3** portsmouth gaseous diffusion plant  
**NT3** rocky flats plant  
**NT3** sandia laboratories  
**NT3** savannah river plant  
**NT3** sequoyah uf6 production plant  
**NT3** stanford linear accelerator center  
**NT3** y-12 plant  
**NT2** us fea  
**NT2** us federal power commission  
**NT2** us fema  
**NT2** us gao  
**NT2** us gsa  
**NT2** us hew  
**NT3** us fda  
**NT2** us hud  
**NT2** us jcae  
**NT2** us national academy of science  
**NT2** us ncrp  
**NT2** us niosh  
**NT2** us noaa  
**NT2** us nrc  
**NT2** us nuclear data network  
**NT2** us ota  
**NT2** us postal service  
**NT2** us veterans administration  
**NT1** uzbek organizations  
**NT1** vietnamese organizations  
**RT** international organizations  
**RT** national government  
**RT** nuclear operators

**national program plans**

INIS: 2000-04-12; ETDE: 1979-09-26

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us national program plans

**national radioactive waste repository in mochovce**

2002-12-17

USE mochovce radioactive waste repository

**national radiological protection board**

INIS: 1993-11-09; ETDE: 1980-01-24

USE nrpb

**national reactor testing station**

USE ineel

**national reactor testing station burst facility**

1993-11-09

USE pbf reactor

**NATIONAL RENEWABLE ENERGY LABORATORY**

INIS: 1994-06-13; ETDE: 1994-04-29

(Until June 1994 this was indexed by SOLAR ENERGY RESEARCH INSTITUTE.)

UF nrel

UF seri

UF solar energy research institute

\*BT1 us doe

RT solar energy

## NATIONAL SCIENCE FOUNDATION

\*BT1 us organizations

## NATIONAL SECURITY

INIS: 1984-04-04; ETDE: 1979-12-10

BT1 security  
RT ballistic missile defense  
RT classified information  
RT nuclear deterrence  
RT security violations

## national synchrotron light source

INIS: 1979-09-18; ETDE: 1979-04-11

USE nsls

## NATIONALIZATION

INIS: 1986-03-04; ETDE: 1980-06-06

*Takeover by government, with or without compensation, of a public or private activity.*

RT centrally planned economies  
RT economic policy  
RT government policies

## NATO

INIS: 1987-06-29; ETDE: 1976-02-19

*North Atlantic Treaty Organization.*

UF north atlantic treaty organization  
BT1 international organizations

## NATROAUTUNITE

2000-04-12

\*BT1 uranium minerals  
RT uranium phosphates

## natural activity

USE natural radioactivity

## NATURAL ANALOGUE

INIS: 1993-09-17; ETDE: 1993-11-08

UF geologic natural analogue  
RT geologic formations  
RT geologic structures  
RT radioactive waste disposal  
RT radionuclide migration  
RT uranium deposits  
RT uranium mines

## NATURAL ATTENUATION

2005-07-06

*Reduction in the amount of pollution or contamination by naturally occurring physical, chemical, and/or biological processes.*

RT chemical spills  
RT decontamination  
RT hazardous materials spills  
RT land pollution control  
RT land reclamation  
RT oil spills  
RT remedial action  
RT water pollution control

## NATURAL BRIDGES NATIONAL MONUMENT

INIS: 2000-04-12; ETDE: 1981-09-08

BT1 public lands  
RT photovoltaic power supplies  
RT utah

## natural circulation

USE natural convection

## NATURAL CONVECTION

*Heat transfer by natural convection.*

UF free convection  
UF natural circulation  
UF natural draft cooling towers  
UF natural ventilation  
\*BT1 convection  
RT displacement ventilation

RT grashof number

RT rayleigh number

RT thermosyphons

## natural depletion

INIS: 2000-04-12; ETDE: 1979-02-23

USE primary recovery

## natural disaster (exceptional)

INIS: 1985-12-10; ETDE: 2002-01-30

USE exceptional natural disaster

## NATURAL DISASTERS

INIS: 1999-02-24; ETDE: 1996-03-28

*Occurrences such as large-scale drought, glacier movement, floods, fires, storms, etc. (From June 1978 until March 1996 DISASTERS was used for this concept in ETDE.)*

SF disasters  
NT1 exceptional natural disaster  
RT explosions  
RT fires  
RT floods  
RT rain  
RT snow  
RT storms  
RT tsunamis  
RT weather  
RT wind

## natural draft cooling towers

2000-04-12

*(Prior to March 1997 this was a valid ETDE descriptor.)*

USE cooling towers  
USE natural convection

## NATURAL GAS

\*BT1 fossil fuels

\*BT1 fuel gas

NT1 abiogenic gas

NT1 liquefied natural gas

RT alaska gas pipeline

RT arctic gas pipelines

RT deregulation

RT flaring

RT gas heat pumps

RT gas hydrates

RT gas meters

RT gas spills

RT gasbuggy event

RT lng plants

RT master metering

RT natural gas deposits

RT natural gas distribution systems

RT natural gas industry

RT natural gas wells

RT petrochemistry

RT polar gas project

RT primary recovery

RT public utilities

RT refinery gases

RT rio blanco event

RT storage facilities

RT wasatch formation

## natural gas appliances

INIS: 2000-04-12; ETDE: 1977-06-21

USE gas appliances

## NATURAL GAS DEPOSITS

INIS: 1991-08-12; ETDE: 1975-09-30

BT1 geologic deposits

\*BT1 mineral resources

NT1 natural gas fields

NT2 gas condensate fields

RT acidization

RT geologic traps

RT geophysical surveys

RT geopressured systems

RT natural gas

RT petroleum geology

RT powder river basin

RT reserves

RT seeps

RT wasatch formation

RT well logging equipment

RT western us overthrust belt

## NATURAL GAS DISTRIBUTION SYSTEMS

INIS: 1992-02-19; ETDE: 1976-11-01

UF natural gas gathering systems

SF energy transport

SF transport (energy)

BT1 energy systems

RT ferc gas areas

RT gas utilities

RT natural gas

RT pipelines

## NATURAL GAS FIELDS

INIS: 1992-02-19; ETDE: 1976-03-11

*Surface boundaries of areas from which commercially valuable natural gas is obtained.*

UF gas fields

\*BT1 natural gas deposits

NT1 gas condensate fields

RT field production equipment

RT natural gas wells

RT reservoir fluids

RT reservoir rock

RT well injection equipment

RT well recovery equipment

RT well spacing

## NATURAL GAS FUEL CELLS

1992-05-20

\*BT1 fuel cells

## natural gas gathering systems

INIS: 1992-02-19; ETDE: 1977-01-28

USE natural gas distribution systems

## NATURAL GAS HYDRATE DEPOSITS

INIS: 2000-04-12; ETDE: 1983-01-21

UF methane hydrate deposits

BT1 geologic deposits

RT arctic regions

RT gas hydrates

## NATURAL GAS INDUSTRY

INIS: 1991-12-17; ETDE: 1975-11-28

BT1 industry

NT1 lng industry

RT ferc gas areas

RT gas utilities

RT natural gas

RT natural gas processing plants

RT us natural gas policy act

## NATURAL GAS LIQUIDS

1992-04-14

*Liquid hydrocarbon mixtures that are gaseous at reservoir temperatures and pressures, but are recoverable by condensation or absorption.*

UF natural gasoline

UF ngl

\*BT1 liquids

NT1 gas condensates

NT1 lease condensates

NT1 liquefied petroleum gases

NT1 plant condensates

RT liquefied natural gas

**natural gas policy act**

INIS: 2000-04-12; ETDE: 1980-05-06

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us natural gas policy act

**NATURAL GAS PROCESSING****PLANTS**

INIS: 1992-04-13; ETDE: 1976-07-07

UF natural gasoline plants

BT1 industrial plants

RT natural gas industry

**NATURAL GAS WELLS**

INIS: 1992-01-16; ETDE: 1975-10-01

UF gas wells

BT1 wells

RT abandoned wells

RT blowout preventers

RT drill stem testing

RT dry holes

RT exploratory wells

RT field production equipment

RT gas condensate wells

RT hydraulic equipment

RT interstitial water

RT natural gas

RT natural gas fields

RT perforation

RT propping agents

RT rod pumps

RT sand consolidation

RT water influx

RT well completion

RT well injection equipment

RT well pressure

RT well recovery equipment

RT well servicing

RT well stimulation

RT wellhead prices

RT wellheads

**natural gasoline**

INIS: 1992-04-14; ETDE: 1976-07-07

USE natural gas liquids

**natural gasoline plants**

INIS: 1992-04-13; ETDE: 1976-07-07

USE natural gas processing plants

**NATURAL KILLER CELLS**

INIS: 1992-01-28; ETDE: 1992-02-14

UF nk cells

\*BT1 leukocytes

RT immunity

RT lymphocytes

**natural language**

INIS: 2000-04-12; ETDE: 1985-09-24

Human language as spoken. English, French, or German are examples of natural languages. Restricted to computer technology. (Prior to March 1997 this was a valid ETDE descriptor.)

USE programming languages

**natural lighting**

INIS: 2000-04-12; ETDE: 1981-01-09

USE daylighting

**natural mutations**

INIS: 1978-02-23; ETDE: 1978-05-01

USE spontaneous mutations

**NATURAL NUCLEAR REACTORS**

INIS: 1979-01-18; ETDE: 1979-02-23

NT1 oklo phenomenon

RT chain reactions

RT criticality

RT reactors

RT uranium ores

**NATURAL OCCURRENCE**

1985-07-18

RT earth crust

RT element abundance

RT geochemistry

RT isotope ratio

RT ore composition

RT radioisotopes

**NATURAL RADIOACTIVITY**

For unspecified naturally occurring radioisotopes only.

UF natural activity

BT1 radioactivity

RT background radiation

RT daughter products

RT gamma logging

RT polonium

RT potassium 40

RT radium

RT radon

RT thorium

RT uranium

**natural reactor oklo**

INIS: 1976-01-28; ETDE: 2002-04-16

USE oklo phenomenon

**NATURAL RUBBER**

1997-06-17

UF rubber (natural)

\*BT1 rubbers

RT dielectric materials

RT guayule

RT latex

RT rubber trees

**NATURAL STEAM**

1992-05-12

Geothermal steam containing incondensable gases such as carbon dioxide and hydrogen sulfide with minor amounts of other gases.

UF geothermal steam

\*BT1 geothermal fluids

BT1 steam

**NATURAL UNITS**

Based on fundamental constants.

BT1 units

NT1 unitor

RT fundamental constants

**NATURAL URANIUM**

\*BT1 uranium

**NATURAL URANIUM REACTORS**

Reactors primarily fueled with natural uranium.

BT1 reactors

NT1 agesta reactor

NT1 aquilon reactor

NT1 atucha-2 reactor

NT1 atucha reactor

NT1 bepo reactor

NT1 bohunice a-1 reactor

NT1 bohunice a-2 reactor

NT1 br-1 reactor

NT1 bruce-1 reactor

NT1 bruce-2 reactor

NT1 bruce-3 reactor

NT1 bruce-4 reactor

NT1 bruce-5 reactor

NT1 bruce-6 reactor

NT1 bruce-7 reactor

NT1 bruce-8 reactor

NT1 cernavoda-1 reactor

NT1 cesar reactor

NT1 cirus reactor

NT1 cordoba reactor

NT1 cp-2 reactor

NT1 cp-3 reactor

NT1 darlington-1 reactor

NT1 darlington-2 reactor

NT1 darlington-3 reactor

NT1 darlington-4 reactor

NT1 dhruva reactor

NT1 diorit reactor

NT1 douglas point ontario reactor

NT1 eco reactor

NT1 el-1 reactor

NT1 el-2 reactor

NT1 essor reactor

NT1 f-1 reactor

NT1 fr-2 reactor

NT1 gentilly-2 reactor

NT1 gentilly reactor

NT1 gleep reactor

NT1 hew-305 reactor

NT1 hwzpr reactor

NT1 jatp reactor

NT1 jrr-3 reactor

NT1 kaiga-1 reactor

NT1 kaiga-2 reactor

NT1 kakrapar-1 reactor

NT1 kakrapar-2 reactor

NT1 kalpakkam-1 reactor

NT1 kalpakkam-2 reactor

NT1 kanupp reactor

NT1 magnox type reactors

NT2 berkeley reactor

NT2 bradwell reactor

NT2 calder hall a-1 reactor

NT2 calder hall a-2 reactor

NT2 calder hall b-3 reactor

NT2 calder hall b-4 reactor

NT2 chapelcross-1 reactor

NT2 chapelcross-2 reactor

NT2 chapelcross-3 reactor

NT2 chapelcross-4 reactor

NT2 dungeness-a reactor

NT2 hinkley point-a reactor

NT2 hunterston-a reactor

NT2 latina reactor

NT2 oldbury-a reactor

NT2 sizewell-a reactor

NT2 tokai-mura reactor

NT2 trawsfynydd reactor

NT2 wylfa reactor

NT1 marius reactor

NT1 mzftr reactor

NT1 narora-1 reactor

NT1 narora-2 reactor

NT1 npd reactor

NT1 nru reactor

NT1 nrx reactor

NT1 pickering-1 reactor

NT1 pickering-2 reactor

NT1 pickering-3 reactor

NT1 pickering-4 reactor

NT1 pickering-5 reactor

NT1 pickering-6 reactor

NT1 pickering-7 reactor

NT1 pickering-8 reactor

NT1 point lepreau-1 reactor

NT1 point lepreau-2 reactor

NT1 pse reactor

NT1 r-1 reactor

NT1 r-b reactor

NT1 rajasthan-1 reactor

NT1 rajasthan-2 reactor

NT1 rajasthan-3 reactor

NT1 rajasthan-4 reactor

NT1 taiwan research reactor

NT1 windscale production reactors

NT1 wolsung-1 reactor

NT1 wolsung-2 reactor

NT1 wolsung-3 reactor

NT1 wolsung-4 reactor

NT1 x-10 reactor

NT1 zed-2 reactor

**NT1** zeep reactor  
**NT1** zephyr reactor  
*RT* ebr-1 reactor  
*RT* eole reactor  
*RT* nora reactor  
*RT* pdp reactor

**natural uranium target**

*INIS: 1984-04-04; ETDE: 2002-04-16*  
 USE uranium 238 target

**natural ventilation**

2004-05-28  
 USE natural convection  
 USE ventilation

**nature conservation**

2004-08-26  
 USE environmental protection

**NATURE RESERVES**

*INIS: 1992-03-30; ETDE: 1978-08-07*  
*UF* environmental parks  
*UF* wilderness areas  
**BT1** resources  
*RT* biosphere  
*RT* ecosystems  
*RT* environment  
*RT* land use  
*RT* wilderness protection acts

**NAURU**

*INIS: 1987-03-24; ETDE: 1987-11-24*  
 \*BT1 micronesia  
*RT* pacific ocean

**NAUSEA**

**BT1** symptoms  
*RT* digestive system diseases

**naval oil shale reserves**

*INIS: 2000-03-28; ETDE: 1983-03-23*  
 (Prior to February 1992 this was a valid ETDE descriptor.)  
 USE us naval oil shale reserves

**naval petroleum reserve**

*INIS: 2000-04-12; ETDE: 1979-10-03*  
 (Prior to February 1992 this was a valid ETDE descriptor.)  
 USE us naval petroleum reserves

**naval reactors**

*INIS: 2000-04-12; ETDE: 1980-04-14*  
 USE ship propulsion reactors

**NAVAL RESEARCH LABORATORY**

\*BT1 us organizations

**naval research laboratory cyclotron**

*INIS: 1984-06-21; ETDE: 2002-04-16*  
 USE nrl cyclotron

**naval research laboratory linac**

*INIS: 1984-06-21; ETDE: 2002-04-16*  
 USE nrl linac

**NAVIER-STOKES EQUATIONS**

1982-12-08  
 (The form NAVIER-STOKES EQUATION was used by ETDE prior to August 1980 and by INIS prior to January 1983.)

\*BT1 partial differential equations  
*RT* equations of motion  
*RT* fluid mechanics  
*RT* incompressible flow  
*RT* viscous flow

**NAVIGATION**

*INIS: 1992-04-01; ETDE: 1982-03-29*  
 Steering a course.  
*RT* aircraft  
*RT* barges

*RT* ships  
*RT* transport

**NAVIGATIONAL INSTRUMENTS**

*RT* aircraft  
*RT* buoys  
*RT* electronic guidance  
*RT* global positioning system  
*RT* inertial guidance  
*RT* rockets  
*RT* ships  
*RT* space vehicles

**NBI CYCLOTRON**

*INIS: 1985-06-10; ETDE: 1985-07-19*  
*UF* niels bohr institute cyclotron  
 \*BT1 cyclotrons

**nbs (us)**

*INIS: 1984-06-21; ETDE: 2002-04-16*  
 USE us nbs

**nbs synchrotron ultraviolet radiation facility**

*INIS: 1993-11-09; ETDE: 1984-08-20*  
 USE surf ii storage ring

**NBSR REACTOR**

*National Inst. of Standards and Technology, Washington, DC, USA.*  
*UF* national bureau of standards reactor  
*UF* us nbs reactor  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**ncrp (us)**

*INIS: 1984-06-21; ETDE: 2002-04-16*  
*US National Council on Radiation Protection and Measurements.*  
 USE us ncrp

**NCSCR-1 REACTOR**

*North Carolina State College, Raleigh, North Carolina, USA.*  
*UF* north carolina state college research reactor-1  
*UF* raleigh-ncsc research reactor-1  
 \*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**NCSR**

*INIS: 1975-11-11; ETDE: 1976-06-07*  
*National Centre of Systems Reliability.*  
*UF* national center of systems reliability  
 \*BT1 united kingdom organizations  
*RT* systems analysis

**ncuspr reactor**

USE pulstar-raleigh reactor

**nda remote experiment station**

USE prr reactor

**ndpp**

*ETDE: 2002-04-16*  
*P-nitro-3-dimethylaminopropiophenone-HCl.*  
 USE amines  
 USE aromatics  
 USE ketones  
 USE nitro compounds

**NEA**

1995-03-31  
*Nuclear Energy Agency of the OECD; until April 1972 known as European Nuclear Energy Agency.*  
*UF* enea  
*UF* european nuclear energy agency  
*UF* nuclear energy agency  
*UF* nuclear energy agency (oecd)  
 \*BT1 oecd

**NEAR INFRARED RADIATION**

*Wavelength range 0.8-2.5 microns.*  
 \*BT1 infrared radiation

**NEAR ULTRAVIOLET RADIATION**

*Wavelength range 4000-2000 A.*  
 \*BT1 ultraviolet radiation

**NEBRASKA**

1997-06-17  
 \*BT1 usa  
*RT* missouri river  
*RT* north platte river basin

**NEBULAE**

**NT1** crab nebula  
**NT1** planetary nebulae  
**NT1** solar nebula  
*RT* cosmic dust  
*RT* cosmic gases  
*RT* galaxies  
*RT* h2 regions  
*RT* herbig-haro objects

**NEC COMPUTERS**

*INIS: 1992-08-18; ETDE: 1984-10-24*  
*Computers manufactured by Nippon Electric Company Ltd.*  
**BT1** computers  
*RT* supercomputers

**NECK**

1999-04-06  
**BT1** body  
*RT* carotid arteries  
*RT* larynx  
*RT* parathyroid glands  
*RT* pharynx  
*RT* thyroid

**NECKAR-1 REACTOR**

*INIS: 1992-03-11; ETDE: 1992-06-22*  
 (Until March 1992, this information was indexed by NECKAR REACTOR.)  
*UF* gemeinschaftskernkraftwerk neckar  
*UF* gkn-1 reactor (neckar)  
*UF* neckar reactor  
*SF* gkn reactor (neckar)  
 \*BT1 pwr type reactors

**NECKAR-2 REACTOR**

1979-11-02  
*UF* gkn-2 reactor (neckar)  
*SF* gkn reactor (neckar)  
 \*BT1 pwr type reactors

**neckar reactor**

1992-05-28  
 (Prior to June 1992, this was a valid ETDE descriptor.)  
 USE neckar-1 reactor

**NECROSIS**

**BT1** pathological changes  
**NT1** gangrene  
**NT1** osteoradionecrosis  
*RT* fistulae  
*RT* ischemia  
*RT* ulcers  
*RT* wounds

**NEEDLE CHAMBERS**

\*BT1 proportional counters

**neel point**

USE neel temperature

**NEEL TEMPERATURE**

UF neel point

\*BT1 transition temperature

RT antiferromagnetism

RT magnetic susceptibility

**NEGATIVE ENERGY STATES**

BT1 energy levels

**negative ions**

USE anions

**NEGATIVE MASS**

BT1 hypothesis

BT1 mass

RT special relativity theory

**NEGATIVE MASS EFFECT**

RT beam dynamics

RT negative mass instability

RT plasma instability

**NEGATIVE MASS INSTABILITY**

\*BT1 plasma microinstabilities

RT negative mass effect

**negatons**

USE electrons

**negatrons**

USE electrons

**NEGEV NUCLEAR RESEARCH CENTER**

INIS: 1979-12-20; ETDE: 1979-11-23

\*BT1 israel atomic energy commission

**NEGOTIATION**

INIS: 1993-03-12; ETDE: 1987-07-09

Action or process of conferring with others through conference, discussion, and compromise.

(From March 1981 till March 1997

MEDIATION was a valid ETDE descriptor.)

SF mediation

RT agreements

RT treaties

**NELKIN THEORY**

BT1 transport theory

**NELSON RIVER**

INIS: 2000-04-12; ETDE: 1975-10-28

\*BT1 rivers

RT canada

**NEM**

INIS: 1976-05-07; ETDE: 1976-08-24

*N-ethyl maleimide*.

UF *n-ethyl maleimide*

\*BT1 antimetabolic drugs

\*BT1 imides

\*BT1 radiosensitizers

**nemata**

INIS: 2000-04-12; ETDE: 1985-05-31

USE nematodes

**NEMATODES**

1996-11-13

UF nemata

UF worms (round)

SF aschelminthes

\*BT1 invertebrates

NT1 ascaridae

NT2 ascaris

NT1 dictyocaulus

NT1 hookworm

NT1 trichinella

RT filariasis

RT parasites

**NEMBUTAL**

UF pentobarbital

\*BT1 barbiturates

**NEOCARCINOSTATIN**

INIS: 1979-12-20; ETDE: 1980-01-24

\*BT1 antibiotics

\*BT1 antineoplastic drugs

\*BT1 radiomimetic drugs

RT antimetabolic drugs

RT chemotherapy

RT mutagens

RT neoplasms

**NEOCLASSICAL TRANSPORT THEORY**

INIS: 1982-11-30; ETDE: 1979-01-30

\*BT1 charged-particle transport theory

RT banana regime

RT bootstrap current

RT pfirsch-schlueter regime

RT plasma

RT plateau regime

**neocupferron**

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE amines

**NEODYMIUM**

\*BT1 rare earths

**NEODYMIUM 124**

2007-03-13

\*BT1 even-even nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 125**

2004-12-15

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 126**

2007-03-13

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 127**

INIS: 1984-10-19; ETDE: 1984-11-06

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**NEODYMIUM 128**

INIS: 1984-10-19; ETDE: 1984-11-06

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 129**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**NEODYMIUM 130**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**NEODYMIUM 131**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**NEODYMIUM 132**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 133**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 134**

1976-01-27

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 135**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 136**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 137**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**NEODYMIUM 138**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hours living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 139**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes



- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 140**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 141**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 142**

- \*BT1 even-even nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**NEODYMIUM 142 REACTIONS***1984-02-23*

- \*BT1 heavy ion reactions

**NEODYMIUM 142 TARGET***ETDE: 1976-07-09*

- BT1 targets

**NEODYMIUM 143**

- \*BT1 even-odd nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**NEODYMIUM 143 TARGET***ETDE: 1976-07-09*

- BT1 targets

**NEODYMIUM 144**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**NEODYMIUM 144 TARGET***ETDE: 1976-07-09*

- BT1 targets

**NEODYMIUM 145**

- \*BT1 even-odd nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**NEODYMIUM 145 TARGET***ETDE: 1976-07-09*

- BT1 targets

**NEODYMIUM 146**

- \*BT1 even-even nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**NEODYMIUM 146 TARGET***ETDE: 1976-07-09*

- BT1 targets

**NEODYMIUM 147**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes

- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 147 TARGET***INIS: 1980-07-24; ETDE: 1980-08-12*

- BT1 targets

**NEODYMIUM 148**

- \*BT1 even-even nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**NEODYMIUM 148 TARGET***ETDE: 1976-07-09*

- BT1 targets

**NEODYMIUM 149**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 149 TARGET***INIS: 1980-07-24; ETDE: 1980-08-12*

- BT1 targets

**NEODYMIUM 150**

- \*BT1 even-even nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- RT* neodymium 150 reactions

**NEODYMIUM 150 REACTIONS**

- \*BT1 heavy ion reactions
- RT* neodymium 150

**NEODYMIUM 150 TARGET***ETDE: 1976-07-09*

- BT1 targets

**NEODYMIUM 151**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 152**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 153***INIS: 1987-08-27; ETDE: 1987-10-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**NEODYMIUM 154**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**NEODYMIUM 155***INIS: 1987-08-27; ETDE: 1987-09-18*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**NEODYMIUM 156***INIS: 1987-08-27; ETDE: 1987-10-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei

- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**NEODYMIUM 157***2007-03-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 158***2007-03-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 159***2007-03-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 160***2007-03-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 161***2007-03-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM ADDITIONS***Alloys containing not more than 1% Nd are listed here.*

- \*BT1 neodymium alloys
- \*BT1 rare earth additions

**NEODYMIUM ALLOYS***Alloys containing more than 1% Nd.*

- \*BT1 rare earth alloys
- NT1 neodymium additions
- NT1 neodymium base alloys

**NEODYMIUM BASE ALLOYS**

- \*BT1 neodymium alloys

**NEODYMIUM BORIDES**

- \*BT1 borides
- \*BT1 neodymium compounds

**NEODYMIUM BROMIDES**

- \*BT1 bromides
- \*BT1 neodymium compounds

**NEODYMIUM CARBIDES**

- \*BT1 carbides
- \*BT1 neodymium compounds

**NEODYMIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 neodymium compounds

**NEODYMIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 neodymium compounds

**NEODYMIUM COMPLEXES**

- \*BT1 rare earth complexes

**NEODYMIUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 neodymium borides
- NT1 neodymium bromides

NT1 neodymium carbides  
 NT1 neodymium carbonates  
 NT1 neodymium chlorides  
 NT1 neodymium fluorides  
 NT1 neodymium hydrides  
 NT1 neodymium hydroxides  
 NT1 neodymium iodides  
 NT1 neodymium nitrates  
 NT1 neodymium nitrides  
 NT1 neodymium oxides  
 NT1 neodymium perchlorates  
 NT1 neodymium phosphates  
 NT1 neodymium silicates  
 NT1 neodymium silicides  
 NT1 neodymium sulfates  
 NT1 neodymium sulfides  
 NT1 neodymium tellurides  
 NT1 neodymium tungstates

**NEODYMIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 neodymium compounds

**NEODYMIUM HYDRIDES**

\*BT1 hydrides  
 \*BT1 neodymium compounds

**NEODYMIUM HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 neodymium compounds

**NEODYMIUM IODIDES**

\*BT1 iodides  
 \*BT1 neodymium compounds

**NEODYMIUM IONS**

\*BT1 ions

**NEODYMIUM ISOTOPES**

BT1 isotopes  
 NT1 neodymium 124  
 NT1 neodymium 125  
 NT1 neodymium 126  
 NT1 neodymium 127  
 NT1 neodymium 128  
 NT1 neodymium 129  
 NT1 neodymium 130  
 NT1 neodymium 131  
 NT1 neodymium 132  
 NT1 neodymium 133  
 NT1 neodymium 134  
 NT1 neodymium 135  
 NT1 neodymium 136  
 NT1 neodymium 137  
 NT1 neodymium 138  
 NT1 neodymium 139  
 NT1 neodymium 140  
 NT1 neodymium 141  
 NT1 neodymium 142  
 NT1 neodymium 143  
 NT1 neodymium 144  
 NT1 neodymium 145  
 NT1 neodymium 146  
 NT1 neodymium 147  
 NT1 neodymium 148  
 NT1 neodymium 149  
 NT1 neodymium 150  
 NT1 neodymium 151  
 NT1 neodymium 152  
 NT1 neodymium 153  
 NT1 neodymium 154  
 NT1 neodymium 155  
 NT1 neodymium 156  
 NT1 neodymium 157  
 NT1 neodymium 158  
 NT1 neodymium 159  
 NT1 neodymium 160  
 NT1 neodymium 161

**NEODYMIUM LASERS**

\*BT1 solid state lasers

RT gdl facility  
 RT gekko facility  
 RT nova facility  
 RT novette facility  
 RT octal 82 facility  
 RT omega facility  
 RT phebus facility  
 RT shiva facility  
 RT trident facility  
 RT vulcan facility

**NEODYMIUM NITRATES**

\*BT1 neodymium compounds  
 \*BT1 nitrates

**NEODYMIUM NITRIDES**

\*BT1 neodymium compounds  
 \*BT1 nitrides

**NEODYMIUM OXIDES**

\*BT1 neodymium compounds  
 \*BT1 oxides

**NEODYMIUM PERCHLORATES**

\*BT1 neodymium compounds  
 \*BT1 perchlorates

**NEODYMIUM PHOSPHATES**

\*BT1 neodymium compounds  
 \*BT1 phosphates

**NEODYMIUM SILICATES**

\*BT1 neodymium compounds  
 \*BT1 silicates

**NEODYMIUM SILICIDES**

\*BT1 neodymium compounds  
 \*BT1 silicides

**NEODYMIUM SULFATES**

\*BT1 neodymium compounds  
 \*BT1 sulfates

**NEODYMIUM SULFIDES**

\*BT1 neodymium compounds  
 \*BT1 sulfides

**NEODYMIUM TELLURIDES**

1976-03-17

\*BT1 neodymium compounds  
 \*BT1 tellurides

**NEODYMIUM TUNGSTATES**

INIS: 1980-02-26; ETDE: 1977-06-02

\*BT1 neodymium compounds  
 \*BT1 tungstates

**neogene period**

INIS: 2000-04-12; ETDE: 1977-10-20

USE tertiary period

**NEOHYDRIN**

UF chlormerodrin  
 \*BT1 diuretics

**NEOMYCIN**

INIS: 1999-02-26; ETDE: 1981-04-20

(Until February 1999, this concept was indexed by the broader term ANTIBIOTICS.)

\*BT1 antibiotics

**NEON**

\*BT1 rare gases

**NEON 16**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes

**NEON 17**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 neon isotopes

**NEON 18**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes  
 \*BT1 seconds living radioisotopes

**NEON 19**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes  
 \*BT1 seconds living radioisotopes

**NEON 19 BEAMS**

INIS: 1988-11-16; ETDE: 1988-12-02

\*BT1 radioactive ion beams

**NEON 20**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes  
 \*BT1 stable isotopes  
 RT neon 20 beams  
 RT neon 20 reactions

**NEON 20 BEAMS**

\*BT1 ion beams  
 RT neon 20

**NEON 20 REACTIONS**

\*BT1 heavy ion reactions  
 RT neon 20

**NEON 20 TARGET**

ETDE: 1976-07-09

BT1 targets

**NEON 21**

\*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes  
 \*BT1 stable isotopes

**NEON 21 TARGET**

ETDE: 1976-07-09

BT1 targets

**NEON 22**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes  
 \*BT1 stable isotopes  
 RT neon 22 beams  
 RT neon 22 reactions

**NEON 22 BEAMS**

\*BT1 ion beams  
 RT neon 22

**NEON 22 REACTIONS**

\*BT1 heavy ion reactions  
 RT neon 22

**NEON 22 TARGET**

ETDE: 1976-07-09

BT1 targets

**NEON 23**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 neon isotopes  
 \*BT1 seconds living radioisotopes

**NEON 24**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 neon isotopes

**NEON 24 DECAY RADIOISOTOPES***INIS: 1986-03-04; ETDE: 1989-06-23*

- \*BT1 heavy ion decay radioisotopes
- NT1 protactinium 231
- NT1 thorium 230
- NT1 uranium 232
- NT1 uranium 233
- NT1 uranium 234
- RT neon 24 emission decay

**NEON 24 EMISSION DECAY***INIS: 1986-03-04; ETDE: 1989-06-23*

- \*BT1 heavy ion emission decay
- RT neon 24 decay radioisotopes

**NEON 25**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 neon isotopes

**NEON 26**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 neon isotopes

**NEON 27**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON 28***INIS: 1979-09-18; ETDE: 1979-04-11*

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON 29***1985-10-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON 29 REACTIONS***INIS: 1992-09-23; ETDE: 1985-07-23*

- \*BT1 heavy ion reactions

**NEON 30***1985-10-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON 31***2007-03-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 neon isotopes

**NEON 32***INIS: 1990-07-24; ETDE: 1990-08-06*

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON 33***2007-03-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 neon isotopes

**NEON 34***2007-03-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 neon isotopes

**NEON CHLORIDES**

- \*BT1 chlorides
- \*BT1 neon compounds

**NEON COMPLEXES**

- BT1 complexes

**NEON COMPOUNDS***1996-06-28*

- BT1 rare gas compounds
- NT1 neon chlorides
- NT1 neon fluorides
- NT1 neon hydrides
- NT1 neon iodides
- NT1 neon oxides

**NEON FLUORIDES**

- \*BT1 fluorides
- \*BT1 neon compounds

**NEON HYDRIDES**

- \*BT1 hydrides
- \*BT1 neon compounds

**NEON IODIDES**

- \*BT1 iodides
- \*BT1 neon compounds

**NEON IONS**

- \*BT1 ions

**NEON ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 neon 16
- NT1 neon 17
- NT1 neon 18
- NT1 neon 19
- NT1 neon 20
- NT1 neon 21
- NT1 neon 22
- NT1 neon 23
- NT1 neon 24
- NT1 neon 25
- NT1 neon 26
- NT1 neon 27
- NT1 neon 28
- NT1 neon 29
- NT1 neon 30
- NT1 neon 31
- NT1 neon 32
- NT1 neon 33
- NT1 neon 34

**NEON OXIDES***1996-06-28*

(From June 1996 to November 2007 NEON COMPOUNDS + OXIDES was used for this concept.)

- \*BT1 neon compounds
- \*BT1 oxides

**NEONATES***INIS: 1976-07-08; ETDE: 1976-03-11**Newborn animals.*

- SF newborns
- BT1 animals
- RT age groups
- RT infants
- RT teratogens

**neopentane**

- USE 2-2-dimethylpropane

**NEOPLASMS**

- UF cancer
- UF malignancies
- UF tumors
- BT1 diseases
- NT1 carcinomas
- NT2 adenomas
- NT2 angiomas
- NT2 epitheliomas
- NT3 melanomas
- NT2 hepatomas
- NT1 experimental neoplasms
- NT2 ehrlich ascites tumor
- NT1 gliomas
- NT2 astrocytomas
- NT1 granulomas
- NT1 leukemia
- NT2 myeloid leukemia
- NT1 lymphomas
- NT2 hodgkins disease
- NT2 lymphosarcomas
- NT1 sarcomas
- NT2 fibrosarcomas
- NT2 lymphosarcomas
- NT2 myosarcomas
- NT3 rhabdomyosarcomas
- NT2 osteosarcomas
- RT antimetabolic drugs
- RT antineoplastic drugs
- RT ascites
- RT ascites tumor cells
- RT bleomycin
- RT carcinoembryonic antigen
- RT carcinogenesis
- RT carcinogens
- RT combined therapy
- RT delayed radiation effects
- RT dimethylbenzanthracene
- RT metastases
- RT neocarcinostatin
- RT radioimmunodetection
- RT tumor cells
- RT tumor promoters

**NEOPRENE**

- UF 2-chloro-1,3-butadiene
- UF chlorobutadiene
- UF chloroprene
- \*BT1 elastomers
- \*BT1 organic chlorine compounds
- \*BT1 organic polymers
- RT butadiene

**NEP-1 REACTOR***INIS: 1977-06-13; ETDE: 1977-01-28**New England Power Co., Charlestown, Rhode Island, USA. Canceled in 1979 before construction began.**UF new england power-1 reactor**UF new england power company nuclear project-1*

- \*BT1 pwr type reactors

**NEP-2 REACTOR***INIS: 1977-06-13; ETDE: 1977-01-28**New England Power Co., Charlestown, Rhode Island, USA. Canceled in 1979 before construction began.**UF new england power-2 reactor**UF new england power company nuclear project-2*

- \*BT1 pwr type reactors

**nepa***1977-03-14*

- USE us national environmental policy act

**NEPAL**

- BT1 asia
- BT1 developing countries

**NEPHELINE BASALTS***INIS: 2000-04-12; ETDE: 1980-08-12*

- \*BT1 volcanic rocks
- RT basalt

**NEPHRECTOMY**

- \*BT1 surgery
- RT kidneys

**NEPHRITIS**

- \*BT1 urogenital system diseases
- RT kidneys

**NEPHROSCLEROSIS**

- \*BT1 cardiovascular diseases
- \*BT1 urogenital system diseases
- \*BT1 vascular diseases
- RT kidneys

**nepotism***INIS: 2000-04-12; ETDE: 1983-03-23*

- SEE personnel management

**neptex process**

1996-06-28

(Until June 1996 this was a valid descriptor.)

- USE reprocessing

**NEPTUNE PLANET**

- BT1 planets

**NEPTUNE REACTOR***UF derby zpr neptune*

- \*BT1 zero power reactors

**NEPTUNIUM**

1996-06-28

*UF neptunium-beta*

- \*BT1 actinides
- \*BT1 transuranium elements
- NT1 neptunium-alpha
- NT1 neptunium-gamma

**NEPTUNIUM 225**

1992-03-18

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 226***INIS: 1990-12-05; ETDE: 1991-01-15*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 227**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 228**

- \*BT1 actinide nuclei
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 229**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 230**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes

- \*BT1 odd-odd nuclei

**NEPTUNIUM 231**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 232**

- \*BT1 actinide nuclei
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 232 TARGET***INIS: 1976-07-06; ETDE: 1976-08-24*

- BT1 targets

**NEPTUNIUM 233**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 234**

- \*BT1 actinide nuclei
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 235**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**NEPTUNIUM 236**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**NEPTUNIUM 236 TARGET***INIS: 1981-07-06; ETDE: 1981-08-04*

- BT1 targets

**NEPTUNIUM 237**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**NEPTUNIUM 237 TARGET***ETDE: 1976-07-09*

- BT1 targets

**NEPTUNIUM 238**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 238 TARGET***INIS: 1977-11-21; ETDE: 1978-03-08*

- BT1 targets

**NEPTUNIUM 239**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 239 TARGET***INIS: 1984-02-23; ETDE: 1979-08-09*

- BT1 targets

**NEPTUNIUM 240**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 241**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 242***INIS: 1981-09-17; ETDE: 1979-07-24*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 243***INIS: 1979-09-18; ETDE: 1979-04-12*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 244***INIS: 1987-02-25; ETDE: 1987-05-01*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM ADDITIONS***Alloys containing not more than 1% Np are listed here.*

- \*BT1 neptunium alloys

**NEPTUNIUM ALLOYS***Alloys containing more than 1% Np.**UF neptunium base alloys*

- \*BT1 actinide alloys
- NT1 neptunium additions

**NEPTUNIUM-ALPHA**

- \*BT1 neptunium

**NEPTUNIUM ARSENIDES**

- \*BT1 arsenides
- \*BT1 neptunium compounds

**neptunium base alloys***(Prior to March 1997 this was a valid descriptor.)*

- USE neptunium alloys

**neptunium-beta***INIS: 1996-06-28; ETDE: 2002-04-16**(Until June 1996 this was a valid descriptor.)*

- USE neptunium

**NEPTUNIUM BORIDES**

1997-01-28

(From October 1996 to February 2008  
NEPTUNIUM COMPOUNDS + BORIDES  
was used for this concept.)

- \*BT1 borides
- \*BT1 neptunium compounds

**NEPTUNIUM BROMIDES**

- \*BT1 bromides
- \*BT1 neptunium compounds

**NEPTUNIUM CARBIDES**

- \*BT1 carbides
- \*BT1 neptunium compounds

**NEPTUNIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 neptunium compounds

**NEPTUNIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 neptunium compounds

**NEPTUNIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes
- NT1 neptunyl complexes

**NEPTUNIUM COMPOUNDS**

1996-11-13

- BT1 actinide compounds
- BT1 transuranium compounds
- NT1 neptunium arsenides
- NT1 neptunium borides
- NT1 neptunium bromides
- NT1 neptunium carbides
- NT1 neptunium carbonates
- NT1 neptunium chlorides
- NT1 neptunium fluorides
- NT1 neptunium hydrides
- NT1 neptunium hydroxides
- NT1 neptunium iodides
- NT1 neptunium nitrates
- NT1 neptunium nitrides
- NT1 neptunium oxides
- NT1 neptunium perchlorates
- NT1 neptunium phosphates
- NT1 neptunium phosphides
- NT1 neptunium selenides
- NT1 neptunium sulfates
- NT1 neptunium sulfides
- NT1 neptunium tellurides
- NT1 neptunyl compounds

**NEPTUNIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 neptunium compounds

**NEPTUNIUM-GAMMA**

- \*BT1 neptunium

**NEPTUNIUM HYDRIDES**

INIS: 1976-11-17; ETDE: 1976-03-11

- \*BT1 hydrides
- \*BT1 neptunium compounds

**NEPTUNIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 neptunium compounds

**NEPTUNIUM IODIDES**

- \*BT1 iodides
- \*BT1 neptunium compounds

**NEPTUNIUM IONS**

- \*BT1 ions

**NEPTUNIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 neptunium 225
- NT1 neptunium 226

NT1 neptunium 227

NT1 neptunium 228

NT1 neptunium 229

NT1 neptunium 230

NT1 neptunium 231

NT1 neptunium 232

NT1 neptunium 233

NT1 neptunium 234

NT1 neptunium 235

NT1 neptunium 236

NT1 neptunium 237

NT1 neptunium 238

NT1 neptunium 239

NT1 neptunium 240

NT1 neptunium 241

NT1 neptunium 242

NT1 neptunium 243

NT1 neptunium 244

**NEPTUNIUM NITRATES**

- \*BT1 neptunium compounds
- \*BT1 nitrates

**NEPTUNIUM NITRIDES**

- \*BT1 neptunium compounds
- \*BT1 nitrides

**NEPTUNIUM OXIDES**

- \*BT1 neptunium compounds
- \*BT1 oxides

**NEPTUNIUM PERCHLORATES**

1977-01-26

- \*BT1 neptunium compounds
- \*BT1 perchlorates

**NEPTUNIUM PHOSPHATES**

INIS: 1997-01-28; ETDE: 1982-02-23

(From November 1996 to November 2007

NEPTUNIUM COMPOUNDS +  
PHOSPHATES was used for this concept.)

- \*BT1 neptunium compounds
- \*BT1 phosphates

**NEPTUNIUM PHOSPHIDES**

- \*BT1 neptunium compounds
- \*BT1 phosphides

**NEPTUNIUM SELENIDES**

INIS: 1977-06-13; ETDE: 1976-01-23

- \*BT1 neptunium compounds
- \*BT1 selenides

**NEPTUNIUM SULFATES**

- \*BT1 neptunium compounds
- \*BT1 sulfates

**NEPTUNIUM SULFIDES**

- \*BT1 neptunium compounds
- \*BT1 sulfides

**NEPTUNIUM TELLURIDES**

1976-02-24

- \*BT1 neptunium compounds
- \*BT1 tellurides

**NEPTUNYL COMPLEXES**

1983-09-06

- \*BT1 neptunium complexes
- RT neptunyl compounds

**NEPTUNYL COMPOUNDS**

- \*BT1 neptunium compounds
- RT neptunyl complexes

**NERNST EFFECT***When heat flows across the lines of a magnetic field, an EMF is produced in the mutually perpendicular direction.*

- UF *nernst-ettinghausen effect*
- RT hall effect

**nernst-ettinghausen effect**

- USE nernst effect

**NERNST HEAT THEOREM**

RT thermodynamics

**nerva nrx-a1 reactor**

2000-04-12

USE nrx-a1 reactor

**nerva nrx-a2 reactor**

USE nrx-a2 reactor

**nerva nrx-a3 reactor**

USE nrx-a3 reactor

**nerva nrx-a4 engine system test reactor**

1993-11-09

USE nrx-a4-est reactor

**nerva nrx-a5 reactor**

USE nrx-a5 reactor

**nerva nrx-a6 reactor**

USE nrx-a6 reactor

**nerva nrx-a7 reactor**

2000-04-12

USE nrx-a7 reactor

**nerva nuclear rocket engine**

USE nerva reactor

**NERVA REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF *nerva nuclear rocket engine*

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

RT xe-2 reactor

**NERVE CELLS**UF *axons*UF *neurons*

\*BT1 somatic cells

RT bioelectricity

RT myelin

RT nerve tissue

RT nervous system

RT receptors

**NERVE TISSUE**

\*BT1 animal tissues

RT nerve cells

RT nerves

**NERVES**

BT1 nervous system

NT1 sciatic nerve

NT1 vagus

RT herpes zoster

RT myelin

RT nerve tissue

RT reflexes

**NERVOUS SYSTEM**

NT1 autonomic nervous system

NT2 vagus

NT1 central nervous system

NT2 brain

NT3 cerebellum

NT3 cerebrum

NT4 cerebral cortex

NT3 hippocampus

NT3 hypothalamus

NT3 olfactory bulbs

NT3 thalamus

NT2 spinal cord

NT1 ganglions

NT1 nerves

NT2 sciatic nerve

NT2 vagus

RT nerve cells

RT nervous system diseases

RT organs

RT pain  
 RT poliomyelitis  
 RT reflexes  
 RT retina  
 RT sense organs

**NERVOUS SYSTEM DISEASES**

BT1 diseases  
 NT1 encephalitis  
 NT1 epilepsy  
 NT1 gliomas  
 NT2 astrocytomas  
 NT1 herpes zoster  
 NT1 myelitis  
 NT2 poliomyelitis  
 NT1 rabies  
 RT meningococcus  
 RT mental disorders  
 RT nervous system  
 RT neurology  
 RT sense organs diseases

**NESTOR REACTOR**

UKAEA, Winfrith, United Kingdom.  
 UF neutron source thermal reactor  
 UF ukaea-nestor reactor  
 \*BT1 argonaut type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**NESTS**

INIS: 1991-08-12; ETDE: 1985-10-10  
*The place where the eggs of animals are laid and hatched and the young are reared.*  
 RT animal breeding  
 RT habitat  
 RT reproduction

**NET ENERGY**

2000-04-12  
*Difference of energy output and energy input.*  
 BT1 energy  
 BT1 energy analysis  
 RT efficiency  
 RT energy accounting  
 RT energy consumption  
 RT energy efficiency  
 RT energy substitution equivalent  
 RT energy yield

**net material product**

INIS: 2000-04-12; ETDE: 1979-11-07  
*The analogue of gross national product for countries with centrally planned economies.*  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 SEE gross domestic product  
 SEE gross national product

**NET TOKAMAK**

1986-02-28  
 UF next european torus  
 \*BT1 tokamak devices

**net trade**

INIS: 2000-04-12; ETDE: 1979-02-23  
*Exports minus imports.*  
 (Prior to May 1996 this was a valid ETDE descriptor.)  
 USE trade

**NETHERLANDS**

1995-04-03  
 BT1 developed countries  
 \*BT1 western europe  
 RT oecd  
 RT rhine river  
 RT wadden sea

**NETHERLANDS ANTILLES**

INIS: 1992-06-04; ETDE: 1979-12-10  
 \*BT1 lesser antilles

**NETHERLANDS ORGANIZATIONS**

BT1 national organizations  
 NT1 ecn  
 NT2 rcn  
 NT1 iko  
 NT1 iri  
 NT1 kvi  
 NT1 nikhef

**NETR REACTOR**

2000-04-12  
*Wright-Patterson Air Force Base, Dayton, Ohio, USA.*  
 UF nuclear engineering test reactor  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**NETWORK ANALYSIS**

INIS: 1983-06-02; ETDE: 1976-07-07  
*Derivation of the electrical properties of a network from its configuration, element values and driving forces.*  
 RT circuit theory  
 RT configuration  
 RT mathematics

**networks (computer)**

INIS: 2000-04-12; ETDE: 1976-11-02  
 USE computer networks

**neuhberg research reactor**

USE fnr reactor

**neumann functions**

INIS: 1975-11-07; ETDE: 2002-04-16  
 USE bessell functions

**NEUMANN SERIES**

1984-02-22  
*An arbitrary function expanded in terms of Bessel functions.*  
 BT1 series expansion  
 RT bessell functions

**NEUPOTZ-1 REACTOR**

INIS: 1978-07-31; ETDE: 1978-09-11  
*Neupotz, Rheinlandpfalz, Federal Republic of Germany.*  
 \*BT1 pwr type reactors

**NEUPOTZ-2 REACTOR**

INIS: 1978-07-31; ETDE: 1978-09-11  
*Neupotz, Rheinlandpfalz, Federal Republic of Germany.*  
 \*BT1 pwr type reactors

**NEURAL NETWORKS**

INIS: 1989-09-15; ETDE: 1989-10-16  
*Computer programs built of linear arrays of processing elements grouped together to simulate the interconnections between the neurons and the learning rules of the brain.*  
 RT artificial intelligence  
 RT computer architecture  
 RT expert systems

**neuridine**

USE spermine

**NEUROLOGY**

BT1 medicine  
 RT nervous system diseases

**neuron transmission**

INIS: 2000-04-12; ETDE: 1982-07-27  
 USE bioelectricity

**neurons**

USE nerve cells

**NEUROREGULATORS**

INIS: 1984-05-24; ETDE: 1981-04-20  
 \*BT1 autonomic nervous system agents  
 NT1 acetylcholine  
 NT1 adrenaline  
 NT1 aminobutyric acid  
 NT1 dopa  
 NT1 dopamine  
 NT1 endorphins  
 NT2 enkephalins  
 NT1 noradrenaline  
 NT1 serotonin  
 NT2 bufotenine  
 RT parasympatholytics  
 RT parasympathomimetics  
 RT sympatholytics  
 RT sympathomimetics

**NEUROSPORA**

\*BT1 eumycota

**NEUTRAL ATOM BEAM INJECTION**

BT1 beam injection  
 RT atomic beam sources  
 RT neutral beam sources

**NEUTRAL BEAM SOURCES**

INIS: 1982-11-30; ETDE: 1977-03-04  
*Not for subatomic species.*  
 NT1 atomic beam sources  
 RT ion sources  
 RT neutral atom beam injection

**NEUTRAL-CURRENT INTERACTIONS**

1995-08-10  
 \*BT1 particle interactions  
 RT basic interactions  
 RT neutral currents  
 RT weinberg angle

**NEUTRAL CURRENTS**

UF currents (neutral)  
 \*BT1 algebraic currents  
 NT1 weak neutral currents  
 RT charged currents  
 RT electromagnetic interactions  
 RT neutral-current interactions  
 RT weak interactions

**NEUTRAL PARTICLE ANALYZERS**

INIS: 2000-04-12; ETDE: 1997-08-30  
 \*BT1 spectrometers  
 RT charge exchange  
 RT plasma diagnostics

**NEUTRAL-PARTICLE TRANSPORT**

INIS: 1975-09-09; ETDE: 1975-10-28  
 UF transport (neutral-particle)  
 BT1 radiation transport  
 NT1 atom transport  
 NT1 neutron transport  
 NT1 photon transport  
 RT neutral particles

**NEUTRAL PARTICLES**

See also the list under ELEMENTARY PARTICLES.  
 RT missing mass  
 RT missing-mass spectrometers  
 RT neutral-particle transport

**neutral red**

1996-10-23  
 (Until October 1996 this was a valid descriptor.)  
 USE amines  
 USE indicators  
 USE pyrazines

**neutralization (beam)**

USE beam neutralization

**neutralization (chemical)**

USE ph value

**neutralization (physical)**

*Of electrons, holes, or radicals; not for the concept covered by BEAM NEUTRALIZATION.*

USE recombination

**neutrettos**

USE muon neutrinos

**NEUTRINO BEAMS**

\*BT1 lepton beams  
NT1 antineutrino beams

**NEUTRINO DETECTION**

\*BT1 radiation detection  
RT dumand project  
RT sudbury neutrino observatory

**neutrino-deuteron interactions**

(Prior to May 1996 this was a valid ETDE descriptor.)

USE neutrino-neutron interactions  
USE neutrino-proton interactions

**NEUTRINO-ELECTRON INTERACTIONS**

\*BT1 lepton-lepton interactions  
NT1 antineutrino-electron interactions

**NEUTRINO-MESON INTERACTIONS**

\*BT1 lepton-meson interactions

**NEUTRINO-MUON INTERACTIONS**

\*BT1 lepton-lepton interactions

**NEUTRINO-NEUTRINO INTERACTIONS**

\*BT1 lepton-lepton interactions

**NEUTRINO-NEUTRON INTERACTIONS**

(From January 1975 till May 1996 NEUTRINO-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF neutrino-deuteron interactions

\*BT1 neutrino-nucleon interactions

NT1 antineutrino-neutron interactions

**NEUTRINO-NUCLEON INTERACTIONS**

\*BT1 lepton-nucleon interactions  
NT1 antineutrino-nucleon interactions  
NT2 antineutrino-neutron interactions  
NT2 antineutrino-proton interactions  
NT1 neutrino-neutron interactions  
NT2 antineutrino-neutron interactions  
NT1 neutrino-proton interactions  
NT2 antineutrino-proton interactions

**NEUTRINO OSCILLATION**

INIS: 1983-10-14; ETDE: 1983-11-09

*Periodic transformation of two or more kinds of neutrinos into each other; interference of mass and charge eigenstates.*

RT mixing ratio

RT neutrinos

RT weak interactions

**NEUTRINO-PROTON INTERACTIONS**

(From January 1975 till May 1996 NEUTRINO-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF neutrino-deuteron interactions

\*BT1 neutrino-nucleon interactions

NT1 antineutrino-proton interactions

**NEUTRINO REACTIONS**

\*BT1 lepton reactions

**NEUTRINOS**

\*BT1 leptons  
\*BT1 massless particles  
NT1 antineutrinos  
NT2 electron antineutrinos  
NT2 muon antineutrinos  
NT1 cosmic neutrinos  
NT1 electron neutrinos  
NT2 electron antineutrinos  
NT1 muon neutrinos  
NT2 muon antineutrinos  
NT1 solar neutrinos  
NT1 tau neutrinos  
RT feynman-gell-mann theory  
RT leptonic decay  
RT neutrino oscillation  
RT semileptonic decay  
RT two-component neutrino theory

**NEUTRON ABSORBERS**

NT1 absorber pellets  
NT1 burnable poisons  
RT control elements  
RT reactor control systems  
RT reactor materials  
RT regulating rods  
RT scram rods  
RT shim rods

**NEUTRON ACTIVATION ANALYSIS**

1978-11-24

UF analysis (neutron activation)

UF naa

\*BT1 activation analysis

RT neutron activation analyzers

**NEUTRON ACTIVATION ANALYZERS**

BT1 measuring instruments  
RT activation analysis  
RT neutron activation analysis  
RT nuclear reaction analyzers

**NEUTRON AGE**

UF fermi age  
RT fermi age theory  
RT neutron flux  
RT slowing-down

**NEUTRON-ANTINEUTRON INTERACTIONS**

(Prior to February 1995 ANTINEUTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF antineutron-deuteron interactions

\*BT1 nucleon-antinucleon interactions

**NEUTRON BEAMS**

\*BT1 nucleon beams  
RT neutron guides  
RT neutrons  
RT pulsed neutron techniques

**neutron bombs**

INIS: 2000-04-12; ETDE: 1981-03-16

USE enhanced radiation weapons

**NEUTRON CAMERAS**

INIS: 1978-07-03; ETDE: 1977-09-19

BT1 cameras

RT neutron diffractometers

RT neutron radiography

**neutron capture**

USE capture  
USE neutron reactions

**NEUTRON CAPTURE THERAPY**

\*BT1 neutron therapy

RT radioactivation

**neutron capture-to-fission ratio**

1993-11-09

USE capture-to-fission ratio

**NEUTRON CHOPPERS**

UF choppers (neutron)  
BT1 beam pulsers  
RT neutron spectrometers  
RT shutters

**NEUTRON CONVERTERS**

RT neutron sources  
RT slowing-down  
RT ultracold neutrons

**NEUTRON-DEFICIENT ISOTOPES**

\*BT1 radioisotopes  
RT delayed proton precursors  
RT delayed protons

**NEUTRON DENSITY**

UF density (neutron)  
RT neutrons  
RT power density

**NEUTRON DETECTION**

\*BT1 radiation detection  
RT neutron detectors  
RT neutron dosimetry  
RT neutron monitors  
RT neutron-photon converters  
RT neutron spectrometers  
RT neutron spectroscopy  
RT radiation detectors

**NEUTRON DETECTORS**

\*BT1 radiation detectors  
NT1 activation detectors  
NT1 bf3 counters  
NT1 boron coated ion chambers  
NT1 boron lined counters  
NT1 fission chambers  
NT1 fission foil detectors  
NT1 fission thermocouple detectors  
NT1 he-3 counters  
NT1 moderating detectors  
NT2 bonner sphere detectors  
NT2 long counters  
NT1 proton recoil detectors  
NT1 self-powered neutron detectors  
NT1 threshold detectors  
RT neutron detection  
RT neutron dosimetry  
RT neutron monitors  
RT neutron thermopiles  
RT reactor control systems

**neutron-deuteron interactions**

(Prior to May 1996 this was a valid ETDE descriptor.)

USE neutron-neutron interactions

USE proton-neutron interactions

**NEUTRON DIFFRACTION**

UF diffraction (neutron)  
UF rocking curve  
\*BT1 diffraction  
RT crystallography  
RT diffuse scattering  
RT neutron diffractometers  
RT neutron-photon converters  
RT structural chemical analysis

**NEUTRON DIFFRACTOMETERS**

\*BT1 diffractometers  
RT crystallography  
RT neutron cameras  
RT neutron diffraction

**NEUTRON DIFFUSION EQUATION**

- \*BT1 diffusion equations
- RT fick laws
- RT flux synthesis
- RT homogenization methods
- RT neutron transport theory

**NEUTRON DOSIMETRY**

- BT1 dosimetry
- RT albedo-neutron dosimeters
- RT bubble dosimeters
- RT neutron detection
- RT neutron detectors
- RT neutron monitors

**neutron economy**

- USE neutron flux

**NEUTRON EMISSION**

- UF neutron evaporation
- BT1 emission
- RT liquid drop model

**neutron evaporation**

- USE neutron emission

**NEUTRON FLUENCE**

- UF fluence (neutron)
- NT1 damaging neutron fluence
- NT2 equivalent fission fluence
- RT neutron flux

**NEUTRON FLUX**

- UF flux (neutron)
- UF neutron economy
- UF neutron flux density
- BT1 radiation flux
- NT1 adjoint flux
- RT damaging neutron fluence
- RT disadvantage factor
- RT flux synthesis
- RT heterogeneous effects
- RT homogenization methods
- RT neutron age
- RT neutron fluence
- RT neutron flux flattening
- RT neutron flux tilting
- RT neutron importance function
- RT neutrons

**neutron flux density**

- USE flux density
- USE neutron flux

**NEUTRON FLUX FLATTENING**

- UF flattening (neutron flux)
- RT neutron flux

**NEUTRON FLUX TILTING**

- UF tilting (neutron flux)
- RT neutron flux

**NEUTRON-GAMMA LOGGING**

- INIS: 1976-10-29; ETDE: 1976-06-07
- Neutron source and gamma detector.
- UF chlorine logs
- UF oxygen logs
- UF thermal decay time log
- SF hydrogen logs
- \*BT1 neutron logging

**NEUTRON GENERATORS**

- INIS: 1982-12-06; ETDE: 1983-02-09
- Usually low-energy accelerators used to produce neutrons by nuclear reactions, e.g.  $T(d, n)$ .
- \*BT1 neutron sources

**NEUTRON GUIDES**

- INIS: 1985-11-19; ETDE: 1985-12-13
- RT neutron beams
- RT neutron reflectors

- RT neutron sources
- RT neutron transport
- RT pulsed neutron techniques
- RT reactor channels
- RT ultracold neutrons

**neutron halos**

- 1995-07-03
- USE nuclear halos

**neutron heating**

- 2000-04-12
- USE radiation heating

**NEUTRON IMPORTANCE****FUNCTION**

- UF importance function (neutron)
- BT1 functions
- RT adjoint flux
- RT neutron flux
- RT perturbation theory

**neutron international standard****neutron source**

- INIS: 1993-11-09; ETDE: 2002-04-16
- USE nirus facility

**neutron international standard****uranium source**

- 2000-04-12
- USE nirus facility

**NEUTRON LEAKAGE**

- UF leakage (neutron)
- RT neutron transport theory

**neutron lifetime log**

- INIS: 2000-04-12; ETDE: 1979-03-27
- USE neutron-neutron logging

**NEUTRON LOGGING**

- INIS: 1977-01-26; ETDE: 1976-08-24
- Well logging using neutron source.
- SF hydrogen logs
- \*BT1 radioactivity logging
- NT1 neutron-gamma logging
- NT1 neutron-neutron logging
- RT neutron probes

**neutron matter**

- INIS: 1981-08-18; ETDE: 1981-09-22
- USE nuclear matter

**neutron moisture meters**

- USE moisture gages

**NEUTRON MONITORS**

- \*BT1 radiation monitors
- RT neutron detection
- RT neutron detectors
- RT neutron dosimetry
- RT reactor control systems

**neutron multiplier facility**

- USE subcritical assemblies

**NEUTRON-NEUTRON****INTERACTIONS**

- (From February 1975 till May 1996
- NEUTRON-DEUTERON INTERACTIONS
- was a valid ETDE descriptor.)

- UF neutron-deuteron interactions
- \*BT1 nucleon-nucleon interactions

**NEUTRON-NEUTRON LOGGING**

- INIS: 1976-10-29; ETDE: 1976-06-07
- Neutron source and neutron detector.
- UF neutron lifetime log
- SF hydrogen logs
- \*BT1 neutron logging

**NEUTRON OSCILLATION**

- INIS: 1985-11-19; ETDE: 1985-12-13
- Process of a reversible neutron-antineutron transformation.
- RT antineutrons
- RT baryon number
- RT neutrons

**NEUTRON-PHOTON CONVERTERS**

- RT neutron detection
- RT neutron diffraction
- RT neutron radiography
- RT photographic film detectors

**NEUTRON PROBES**

- INIS: 1986-03-04; ETDE: 1989-06-23
- BT1 probes
- RT moisture gages
- RT neutron logging
- RT neutron reactions
- RT neutron sources

**NEUTRON RADIOGRAPHY**

- \*BT1 industrial radiography
- RT neutron cameras
- RT neutron-photon converters

**NEUTRON REACTIONS**

- UF neutron capture
- \*BT1 nucleon reactions
- NT1 fast fission
- NT1 thermal fission
- RT neutron probes
- RT neutron sputtering

**NEUTRON REFLECTORS**

- UF reflectors (neutron)
- RT configuration control
- RT neutron guides
- RT reflector savings

**NEUTRON-RICH ISOTOPES**

- INIS: 1976-07-16; ETDE: 1975-11-11
- \*BT1 beta-minus decay radioisotopes
- RT beta-delayed neutrons

**NEUTRON SEPARATION ENERGY**

- \*BT1 binding energy
- RT neutrons

**NEUTRON SLOWING-DOWN****THEORY**

- 1996-07-08
- (Prior to August 1996 SELENGUT-GOERTZEL EQUATION was a valid ETDE descriptor.)

- UF selengut approximation
- UF selengut-goertzel equation
- UF slowing-down theory (neutron)
- SF greuling-goertzel approximation
- NT1 fermi age theory
- RT moderators
- RT neutron spectra
- RT neutron transport theory
- RT placzec function
- RT reactor physics
- RT slowing-down
- RT slowing-down kernels
- RT spencer-fano theory
- RT wick method

**NEUTRON SOURCE FACILITIES**

- INIS: 1994-07-01; ETDE: 1977-10-20
- UF deuterium-lithium high flux neutron source facility
- UF high flux neutron source facility
- NT1 ipns-i synchrotron
- RT hanford reservation
- RT linear accelerators

**neutron source thermal reactor**

- USE nestor reactor



**NEUTRON SOURCES**

*Excludes reactors even when used as neutron sources.*

- UF* *ing linac*
- UF* *intense neutron generator linac*
- \*BT1** particle sources
- NT1** neutron generators
- NT1** nissus facility
- RT* neutron converters
- RT* neutron guides
- RT* neutron probes
- RT* neutrons
- RT* radioactivation
- RT* sigma piles
- RT* sora reactor
- RT* thermal columns

**NEUTRON SPECTRA**

- UF* *spectra (neutron)*
- BT1** spectra
- NT1** watt fission spectrum
- RT* neutron slowing-down theory
- RT* neutrons
- RT* spectra unfolding
- RT* spectral hardening

**NEUTRON SPECTROMETERS**

- \*BT1** spectrometers
- NT1** bonner sphere spectrometers
- RT* neutron choppers
- RT* neutron detection

**neutron spectrometry**

*INIS: 1975-10-23; ETDE: 2002-04-16*  
*USE* neutron spectroscopy

**NEUTRON SPECTROSCOPY**

- UF* *neutron spectrometry*
- BT1** spectroscopy
- RT* neutron detection

**NEUTRON SPUTTERING**

*INIS: 2000-04-12; ETDE: 1977-08-24*  
**BT1** sputtering  
*RT* neutron reactions  
*RT* physical radiation effects

**NEUTRON STARS**

- BT1** stars
- RT* accretion disks
- RT* gravitational collapse
- RT* neutrons
- RT* nuclear matter
- RT* pulsars
- RT* starquakes

**NEUTRON TEMPERATURE**

- UF* *temperature (neutron)*
- RT* energy
- RT* neutrons
- RT* thermal neutrons

**NEUTRON THERAPY**

*INIS: 1976-02-11; ETDE: 1976-04-19*  
**\*BT1** radiotherapy  
**NT1** neutron capture therapy

**NEUTRON THERMOPILES**

- RT* neutron detectors

**NEUTRON TRANSFER**

- RT* neutrons
- RT* transfer reactions

**NEUTRON TRANSPORT**

- UF* *transport (neutron)*
- \*BT1** neutral-particle transport
- RT* neutron guides
- RT* neutron transport theory

**NEUTRON TRANSPORT THEORY**

*1996-01-24*  
 (Prior to March 1997 HAYWOOD MODEL and ROSENBLUTH-NELKIN model were valid ETDE descriptors.)

- UF* *haywood model*
- SF* *rosenbluth-nelkin model*
- BT1** transport theory
- NT1** multigroup theory
- NT1** one-group theory
- RT* adjoint difference method
- RT* albedo
- RT* collision probability method
- RT* discrete ordinate method
- RT* extrapolation length
- RT* feynman method
- RT* fick laws
- RT* homogenization methods
- RT* milne problem
- RT* monte carlo method
- RT* neutron diffusion equation
- RT* neutron leakage
- RT* neutron slowing-down theory
- RT* neutron transport
- RT* perturbation theory
- RT* reactor physics
- RT* slowing-down
- RT* spherical harmonics method
- RT* transfer matrix method
- RT* variational methods
- RT* yvon method

**NEUTRONIC DAMAGE FUNCTIONS**

*INIS: 1976-05-07; ETDE: 1978-03-08*  
**BT1** functions  
*RT* damaging neutron fluence  
*RT* equivalent fission fluence  
*RT* irradiation  
*RT* physical radiation effects

**NEUTRONS**

*1996-07-23*  
**\*BT1** nucleons  
**NT1** antineutrons  
**NT1** beta-delayed neutrons  
**NT1** cold neutrons  
**NT2** ultracold neutrons  
**NT1** cosmic neutrons  
**NT1** epithermal neutrons  
**NT1** fast neutrons  
**NT1** fission neutrons  
**NT2** delayed neutrons  
**NT2** prompt neutrons  
**NT1** intermediate neutrons  
**NT1** photon neutrons  
**NT1** pile neutrons  
**NT1** polyneutrons  
**NT2** dineutrons  
**NT2** tetra-neutrons  
**NT2** trineutrons  
**NT1** resonance neutrons  
**NT1** slow neutrons  
**NT1** solar neutrons  
**NT1** thermal neutrons  
*RT* cinda  
*RT* neutron beams  
*RT* neutron density  
*RT* neutron flux  
*RT* neutron oscillation  
*RT* neutron separation energy  
*RT* neutron sources  
*RT* neutron spectra  
*RT* neutron stars  
*RT* neutron temperature  
*RT* neutron transfer

**NEUTROPHILS**

- \*BT1** leukocytes

**NEVADA**

- \*BT1** usa
- NT1** steamboat springs
- NT1** tonopah test range
- RT* great basin
- RT* nevada test site
- RT* snake river plain
- RT* yucca mountain

**NEVADA TEST SITE**

*1999-01-25*  
**BT1** nuclear test sites  
**\*BT1** us doe  
*RT* arbor project  
*RT* nevada  
*RT* nuclear explosions  
*RT* nuclear weapons  
*RT* tonopah test range  
*RT* yucca mountain

**nevada university l-77 reactor**

*2000-04-12*  
*USE* nevada university reactor

**NEVADA UNIVERSITY REACTOR**

*2000-04-12*  
*Univ. of Nevada, Reno, Nevada, USA. Shut down in 1974.*

- UF* *l-77 nevada university reactor*
- UF* *nevada university l-77 reactor*
- UF* *university of nevada l-77 reactor*
- \*BT1** aqueous homogeneous reactors
- \*BT1** enriched uranium reactors
- \*BT1** thermal reactors
- \*BT1** training reactors

**NEW BRUNSWICK**

- \*BT1** canada

**NEW CALEDONIA**

*INIS: 1992-06-12; ETDE: 1979-12-10*  
**BT1** oceania

**new england**

*INIS: 2000-04-12; ETDE: 1978-07-06*  
*USE* usa

**new england power-1 reactor**

*INIS: 1984-07-20; ETDE: 2002-04-16*  
*USE* nep-1 reactor

**new england power-2 reactor**

*INIS: 1984-07-20; ETDE: 2002-04-16*  
*USE* nep-2 reactor

**new england power company nuclear project-1**

*INIS: 1993-11-09; ETDE: 1977-01-28*  
*USE* nep-1 reactor

**new england power company nuclear project-2**

*INIS: 1993-11-09; ETDE: 1977-01-28*  
*USE* nep-2 reactor

**NEW GUINEA**

*ETDE: 1979-09-26*  
**BT1** australasia  
**BT1** islands  
**NT1** papua new guinea  
*RT* australia  
*RT* new zealand  
*RT* pacific ocean

**NEW HAMPSHIRE**

*1997-06-17*  
**\*BT1** usa  
*RT* connecticut river  
*RT* connecticut river basin  
*RT* gulf of maine  
*RT* us east coast

**NEW HEBRIDES ISLANDS**

1992-06-04

- BT1 islands
- RT pacific ocean

**NEW JERSEY**

1997-06-17

- \*BT1 usa
- RT delaware river
- RT hudson river
- RT new york bight
- RT us east coast

**NEW MEXICO**

1997-06-19

- \*BT1 usa
- NT1 los alamos
- RT baca geothermal field
- RT inhalation toxicology research institute
- RT jemez mountains
- RT lanl
- RT permian basin
- RT rio grande rift
- RT rio grande river
- RT sandia laboratories
- RT sandia national laboratories
- RT santa rosa deposit
- RT wipp

**new neutron source frm-ii**

2004-04-02

- USE frm-ii reactor

**NEW SOUTH WALES**

1997-06-17

- \*BT1 australia
- RT glen davis facility

**NEW YORK**

1997-06-17

- \*BT1 usa
- NT1 new york city
- RT adirondack mountains
- RT allegheny river
- RT bnl
- RT delaware river
- RT hudson river
- RT kapl
- RT long island sound
- RT mohawk river
- RT new york bight
- RT niagara river
- RT st lawrence river
- RT susquehanna river
- RT us east coast

**NEW YORK BIGHT**

INIS: 2000-04-12; ETDE: 1980-03-29

The section of continental margin and overlying water within the bend of the Atlantic coastline bounded by Long Island on the north and New Jersey on the west.

- \*BT1 mid-atlantic bight
- RT continental shelf
- RT new jersey
- RT new york
- RT us east coast

**NEW YORK CITY**

- \*BT1 new york
- BT1 urban areas

**NEW ZEALAND**

1997-06-19

- BT1 australasia
- BT1 developed countries
- BT1 islands
- RT broadlands geothermal field
- RT kawerau geothermal field
- RT new guinea

- RT oceania
- RT oecd
- RT pacific ocean
- RT tasman sea
- RT waiotapu geothermal field
- RT wairakei geothermal field

**NEW ZEALAND ORGANIZATIONS**

1986-04-03

- BT1 national organizations

**NEWBOLD ISLAND-1 REACTOR**

ETDE: 1976-08-04

Public Service Electric and Gas Co., New Jersey, USA. Name changed to HOPE CREEK-1 REACTOR in November 1973

because of change in construction site, and more recent material should be so indexed.

- UF bordentown nj newbold island-1 reactor
- UF public service newbold island-1 reactor

- \*BT1 hope creek-1 reactor

**NEWBOLD ISLAND-2 REACTOR**

ETDE: 1976-08-04

Public Service Electric and Gas Co., New Jersey, USA. Name changed to HOPE CREEK-2 REACTOR in November 1973

because of change in construction site, and more recent material should be so indexed.

Canceled in 1981 before construction began.

- UF bordentown nj newbold island-2 reactor
- UF public service newbold island-2 reactor

- \*BT1 hope creek-2 reactor

**newborns**

2000-03-28

- SEE infants
- SEE neonates

**NEWCASTLE DISEASE**

- \*BT1 viral diseases
- RT birds
- RT viruses

**NEWFOUNDLAND**

- \*BT1 canada
- BT1 islands
- RT atlantic ocean

**newton mechanics**

- USE classical mechanics

**NEWTON-METAL**

2000-04-12

- \*BT1 bismuth base alloys
- \*BT1 lead alloys
- \*BT1 tin alloys

**NEWTON METHOD**

INIS: 1978-08-30; ETDE: 1976-02-19

- \*BT1 iterative methods
- RT mathematics
- RT numerical solution
- RT polynomials

**newts**

- USE salamanders

**next european torus**

1986-02-28

- USE net tokamak

**ngl**

INIS: 2000-04-12; ETDE: 1976-02-20

- USE natural gas liquids

**NHR-5 REACTOR**

2000-12-27

Tsingua Univ., Beijing, China.

UF thr reactor

- \*BT1 enriched uranium reactors
- \*BT1 process heat reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**NI-HARD**

2000-04-12

- \*BT1 chromium alloys
- \*BT1 iron alloys
- \*BT1 iron carbides
- \*BT1 manganese additions
- \*BT1 nickel alloys
- \*BT1 silicon additions
- \*BT1 sulfur additions

**NI-O-NEL**

2000-04-12

- \*BT1 chromium alloys
- \*BT1 copper alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys
- \*BT1 titanium alloys

**niacin**

INIS: 1976-02-05; ETDE: 2002-04-16

- USE nicotinic acid

**NIAGARA RIVER**

INIS: 1992-06-04; ETDE: 1983-03-07

- \*BT1 rivers
- RT new york

**NICARAGUA**

1997-06-17

- \*BT1 central america
- BT1 developing countries
- RT momotombo geothermal field

**NICHROME**

1993-10-03

- \*BT1 alloy-ni60fe24cr16

**nichrome v**

INIS: 1983-11-07; ETDE: 2002-04-16

- USE alloy-ni80cr20

**NICKEL**

- \*BT1 transition elements
- RT black nickel
- RT td-nickel

**NICKEL 48**

2007-03-14

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes

**NICKEL 49**

INIS: 2001-05-23; ETDE: 2001-04-30

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nickel isotopes

**NICKEL 50**

2002-08-13

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nickel isotopes

**NICKEL 51**

2007-03-14

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes

**NICKEL 52**

INIS: 1996-06-17; ETDE: 1996-05-31

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nickel isotopes

**NICKEL 53**

INIS: 1976-05-05; ETDE: 1976-08-24

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nickel isotopes

**NICKEL 54**

1978-02-23

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes

**NICKEL 55**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nickel isotopes

**NICKEL 56**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes

**NICKEL 56 TARGET**

INIS: 1992-09-23; ETDE: 1981-11-24

BT1 targets

**NICKEL 57**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes

**NICKEL 57 TARGET**

INIS: 1985-12-10; ETDE: 1979-07-24

BT1 targets

**NICKEL 58**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 stable isotopes
- RT nickel 58 reactions

**NICKEL 58 BEAMS**

INIS: 1976-10-07; ETDE: 1976-11-01

- \*BT1 ion beams

**NICKEL 58 REACTIONS**

- \*BT1 heavy ion reactions
- RT nickel 58

**NICKEL 58 TARGET**

ETDE: 1976-07-09

BT1 targets

**NICKEL 59**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

- \*BT1 nickel isotopes
- \*BT1 years living radioisotopes

**NICKEL 59 REACTIONS**

INIS: 1984-06-21; ETDE: 1984-07-10

- \*BT1 heavy ion reactions

**NICKEL 59 TARGET**

ETDE: 1976-07-09

BT1 targets

**NICKEL 60**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 stable isotopes

**NICKEL 60 BEAMS**

INIS: 1979-01-18; ETDE: 1979-02-23

- \*BT1 ion beams

**NICKEL 60 REACTIONS**

INIS: 1976-10-07; ETDE: 1976-11-01

- \*BT1 heavy ion reactions

**NICKEL 60 TARGET**

ETDE: 1976-07-09

BT1 targets

**NICKEL 61**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 stable isotopes

**NICKEL 61 REACTIONS**

INIS: 1986-12-09; ETDE: 1978-02-24

- \*BT1 heavy ion reactions

**NICKEL 61 TARGET**

ETDE: 1976-07-09

BT1 targets

**NICKEL 62**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 stable isotopes

**NICKEL 62 REACTIONS**

1995-03-23

- \*BT1 heavy ion reactions

**NICKEL 62 TARGET**

ETDE: 1976-07-09

BT1 targets

**NICKEL 63**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 years living radioisotopes

**NICKEL 63 TARGET**

INIS: 1992-07-06; ETDE: 1992-08-07

BT1 targets

**NICKEL 64**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 stable isotopes

**NICKEL 64 REACTIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

- \*BT1 heavy ion reactions

**NICKEL 64 TARGET**

ETDE: 1976-07-09

BT1 targets

**NICKEL 65**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei

- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes

**NICKEL 66**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes

**NICKEL 67**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 seconds living radioisotopes

**NICKEL 68**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes

**NICKEL 69**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 seconds living radioisotopes

**NICKEL 70**

2005-01-25

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 seconds living radioisotopes

**NICKEL 71**

INIS: 1990-05-17; ETDE: 1990-06-01

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 seconds living radioisotopes

**NICKEL 72**

INIS: 1990-05-17; ETDE: 1990-06-01

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nickel isotopes
- \*BT1 seconds living radioisotopes

**NICKEL 73**

INIS: 1990-05-17; ETDE: 1990-06-01

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nickel isotopes

**NICKEL 74**

INIS: 1990-08-24; ETDE: 1990-09-10

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**NICKEL 75**

2007-03-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nickel isotopes

**NICKEL 76**

2007-03-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

\*BT1 nickel isotopes

### NICKEL 77

2007-03-14

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

### NICKEL 78

INIS: 1980-11-28; ETDE: 1981-01-09

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

### NICKEL ADDITIONS

1996-07-23

Alloys containing not more than 1% Ni are listed here.

\*BT1 nickel alloys

NT1 alloy-zr98sn-2

NT2 zircaloy 2

NT1 ounce metal

NT1 steel-cr12moniv

NT1 steel-cr2moninb

NT1 steel-cr2mov

NT1 steel-cralnimo

NT1 steel-crmo

NT1 steel-crmov

NT1 steel-crni

NT1 steel-mncumo

NT2 steel-astm-a537

NT1 steel-mnnimo

NT2 steel-astm-a533-b

NT1 steel-nimocr

### NICKEL ALLOYS

1996-11-13

Alloys containing more than 1% Ni.

UF alloy-fe48cr24ni24

UF alloy-in-519

UF german silver

UF in 519

UF manaurite 900

UF nickel silver

UF nitinol

UF refractaloy

UF rezistal

UF stainless steel-44ln

UF steel-0kh21n5t

UF steel-0kh22n5t

UF steel-20n14

UF steel-astm-a350 (gr 3)

UF steel-cr21ni5ti

UF steel-cr22ni5ti

UF steel-cr26ni5mo-1

UF steel-dim-1-6348

UF steel-ni3mov

UF steel-ni4

UF white copper

\*BT1 transition element alloys

NT1 alloy-co36cr22ni22w15fe3

NT2 haynes 188 alloy

NT1 alloy-co43cr20fe18ni13w3

NT2 havar

NT1 alloy-co54cr20w15ni10

NT2 alloy-hs-25

NT2 haynes 25 alloy

NT1 alloy-co60cr30w4

NT2 stellite 6

NT1 alloy-cu52ni47

NT2 constantan

NT1 alloy-d-979

NT1 alloy-fe40ni35cr22

NT1 alloy-fe44ni33cr21

NT2 incoloy 800h

NT1 alloy-fe46ni33cr21

NT2 incoloy 800

NT2 incoloy 802

NT1 alloy-fe53ni29co18

NT2 kovar

NT1 alloy-hs-31

NT1 alloy-mo-re-1

NT1 alloy-mp35n

NT1 alloy-n28t3

NT1 alloy-s-590

NT1 alloy-s-816

NT1 alloy-v-36

NT1 alloy-yundk 25ba

NT1 alnico alloys

NT1 ascology

NT1 chromium-nickel steels

NT2 alloy-d-9

NT2 carpenter

NT2 chromium-nickel-molybdenum steels

NT3 alloy-m-813

NT3 steel-cr11ni10mo2ti-1

NT3 steel-cr15ni15motib

NT3 steel-cr16ni13monbv

NT3 steel-cr16ni15mo3nb

NT3 steel-cr16ni16monb

NT3 steel-cr16ni8mo2

NT4 stainless steel-16-8-2

NT3 steel-cr16ni9mo2

NT3 steel-cr17ni12mo3

NT4 stainless steel-316

NT3 steel-cr17ni12mo3-1

NT4 stainless steel-316l

NT4 stainless steel-zend17-13

NT3 steel-cr17ni12monb

NT3 steel-cr17ni13mo2ti

NT3 steel-cr17ni13mo3ti

NT3 steel-ni26cr15ti2movalb

NT4 alloy-a-286

NT2 durco

NT2 enduro

NT2 stainless steel-17-7ph

NT2 stainless steel-303

NT2 stainless steel-329

NT2 stainless steel-ph-15-7-mo

NT2 steel-cr17ni13

NT2 steel-cr17ni7

NT3 stainless steel-301

NT2 steel-cr18ni10

NT3 stainless steel-18-10

NT2 steel-cr18ni10-l

NT2 steel-cr18ni10ti

NT3 stainless steel-321

NT2 steel-cr18ni11

NT3 steel-x6crni1811

NT2 steel-cr18ni11nb

NT3 stainless steel-347

NT2 steel-cr18ni11nbco

NT3 stainless steel-348

NT2 steel-cr18ni12

NT3 stainless steel-305

NT2 steel-cr18ni12ti

NT2 steel-cr18ni8

NT3 stainless steel-18-8

NT2 steel-cr18ni9

NT3 stainless steel-302

NT2 steel-cr18ni9ti

NT2 steel-cr19ni10

NT3 stainless steel-304

NT2 steel-cr19ni10-l

NT3 stainless steel-304l

NT2 steel-cr20ni11

NT3 stainless steel-308

NT2 steel-cr20ni11-l

NT3 stainless steel-308l

NT2 steel-cr23ni14

NT3 stainless steel-309

NT3 stainless steel-309s

NT2 steel-cr23ni18

NT2 steel-cr25ni20

NT3 alloy-hk-40

NT3 stainless steel-310

NT2 steel-ni25cr20

NT3 stainless steel-20-25

NT2 steel-ni36cr12ti3al-l

NT2 timken alloys

NT1unico

NT1 discaloy

NT1 invar

NT1 manganin

NT1 misco metal

NT1 ni-hard

NT1 ni-o-nel

NT1 nickel additions

NT2 alloy-zr98sn-2

NT3 zircaloy 2

NT2 ounce metal

NT2 steel-cr12moniv

NT2 steel-cr2moninb

NT2 steel-cr2mov

NT2 steel-cralnimo

NT2 steel-crmo

NT2 steel-crmov

NT2 steel-crni

NT2 steel-mncumo

NT3 steel-astm-a537

NT2 steel-mnnimo

NT3 steel-astm-a533-b

NT2 steel-nimocr

NT1 nickel base alloys

NT2 alloy-b-1900

NT2 alloy-in-102

NT2 alloy-in-853

NT2 alloy-mar-m246

NT2 alloy-mn-21

NT2 alloy-mo-re-2

NT2 alloy-ni43fe30cr22mo3

NT3 incoloy 825

NT2 alloy-ni45fe34cr20

NT2 alloy-ni50mo32cr15si3

NT2 alloy-ni55co17cr15mo5al4ti4

NT3 astroloy

NT2 alloy-ni55cr19co11mo10ti3

NT3 rene 41

NT2 alloy-ni58cr20co14mo4ti3

NT3 waspaloy

NT2 alloy-ni77cr20ti2

NT2 alloy-ni78cr21

NT2 alloy-ni79fe16mo4

NT2 alloy-ni94mn3al2

NT3 alumei

NT2 alloy-nx-188

NT2 alloy-ra-333

NT2 chlorimet

NT2 chromel

NT3 alloy-ni60fe24cr16

NT4 nichrome

NT3 alloy-ni80cr20

NT2 colmonoy

NT2 duranickel

NT2 hastelloys

NT3 alloy-ni49cr22fe18mo9

NT4 hastelloy x

NT3 alloy-ni50cr22fe18mo9

NT4 hastelloy xr

NT3 alloy-ni54mo17cr16fe6w4

NT4 hastelloy c

NT3 alloy-ni62cr16mo15fe3

NT4 hastelloy s

NT3 alloy-ni65mo28fe5

NT4 hastelloy b

NT3 alloy-ni70mo17cr7fe5

NT4 hastelloy n

NT4 inor-8

NT2 illium

NT2 incoloy 901

NT2 inconel alloys

NT3 alloy-ni41fe40cr16nb3

NT4 inconel 706

NT3 alloy-ni46cr23co19ti5al4

NT4 alloy-in-939

NT3 alloy-ni51cr48

**NT4** inconel 671  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni54cr22co13mo9  
**NT4** inconel 617  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni61cr23fe14  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** inconel 700  
**NT3** inconel 738  
**NT3** inconel 739  
**NT2** konel  
**NT2** monel  
**NT3** alloy-ni66cu32  
**NT4** monel 400  
**NT2** microbraz 50  
**NT2** nimonic  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni65cr25mo10  
**NT4** nimonic 86  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** nimonic 115  
**NT3** nimonic 115a  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** td-nickel chromium  
**NT2** tophet  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**NT1** nickel steels  
**NT2** sweetalloy  
**NT1** nickeline alloy  
**NT1** orthonol  
**NT1** permalloy  
**NT1** stainless steel-jbk-75  
**NT1** steel-cd-4mcu  
**NT1** steel-cr16ni  
**NT1** steel-cr17cu4ni4nb-1  
**NT2** stainless steel-17-4ph  
**NT1** steel-cr17ni4mo3  
**NT1** steel-cr21mn9ni6  
**NT2** stainless steel-21-6-9  
**NT1** steel-cr2nimov  
**NT1** steel-in-787  
**NT1** steel-mnnimov  
**NT1** steel-ni3cr  
**NT1** steel-ni3crmo  
**NT2** steel-astm-a543  
**NT1** steel-ni3crmov  
**NT1** steel-ni4crw  
**NT1** steel-nicr  
**NT1** steel-nicrmo  
**NT1** supertherm

## NICKEL ARSENIDES

INIS: 1991-09-16; ETDE: 1976-07-07

\*BT1 arsenides  
 \*BT1 nickel compounds

## NICKEL BASE ALLOYS

1996-11-27

(A number of the UF terms below have been valid ETDE descriptors.)

UF alloy-79nm  
 UF alloy-ehi 826  
 UF alloy-ehi 868  
 UF alloy-ehp-199  
 UF alloy-ehp-496  
 UF alloy-ehp-567  
 UF alloy-gmr-235  
 UF alloy-hd-8077  
 UF alloy-kh20n80t  
 UF alloy-khn56vmytu  
 UF alloy-khn60b  
 UF alloy-khn60v  
 UF alloy-khn60vt  
 UF alloy-khn67vmytu  
 UF alloy-khn77tyu  
 UF alloy-m-252  
 UF alloy-ma-754  
 UF alloy-mm-0011  
 UF alloy-n55m20v25  
 UF alloy-n65m20v15  
 UF alloy-ni42fe36cr12mo6ti3  
 UF alloy-ni45cr23fe19co3mo3w3  
 UF alloy-ni56cr21w10mo5fe4al2  
 UF alloy-ni58cr14co8al4mo4nb4w4  
 UF alloy-ni60cr14co10ti5mo4w4al3  
 UF alloy-ni60cr25w15  
 UF alloy-ni65mo16cr15w4  
 UF alloy-ni67cr19mo5w5ti3  
 UF alloy-ni68cr15w6al3mo3fe2  
 UF alloy-ni80fe16mo4  
 UF alloy-vzh98  
 UF alloy-waz-16  
 UF hd 8077  
 UF ma 754  
 UF mm-0011  
 UF permalloy c  
 UF waz 16  
 \*BT1 nickel alloys  
**NT1** alloy-b-1900  
**NT1** alloy-in-102  
**NT1** alloy-in-853  
**NT1** alloy-mar-m246  
**NT1** alloy-mn-21  
**NT1** alloy-mo-re-2  
**NT1** alloy-ni43fe30cr22mo3  
**NT2** incoloy 825  
**NT1** alloy-ni45fe34cr20  
**NT1** alloy-ni50mo32cr15si3  
**NT1** alloy-ni55co17cr15mo5al4ti4  
**NT2** astroloy  
**NT1** alloy-ni55cr19co11mo10ti3  
**NT2** rene 41  
**NT1** alloy-ni58cr20co14mo4ti3  
**NT2** waspaloy  
**NT1** alloy-ni77cr20ti2  
**NT1** alloy-ni78cr21  
**NT1** alloy-ni79fe16mo4  
**NT1** alloy-ni94mn3al2  
**NT2** aludel  
**NT1** alloy-nx-188  
**NT1** alloy-ra-333  
**NT1** chlorimet  
**NT1** chromel  
**NT2** alloy-ni60fe24cr16  
**NT3** nichrome  
**NT2** alloy-ni80cr20  
**NT1** colmonoy  
**NT1** duranickel  
**NT1** hastelloys  
**NT2** alloy-ni49cr22fe18mo9

**NT3** hastelloy x  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy xr  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni62cr16mo15fe3  
**NT3** hastelloy s  
**NT2** alloy-ni65mo28fe5  
**NT3** hastelloy b  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT1** illium  
**NT1** incoloy 901  
**NT1** inconel alloys  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni51cr48  
**NT3** inconel 671  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni59cr30fe9  
**NT3** inconel 690  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni61cr23fe14  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni74cr13al6mo4  
**NT3** inconel 713c  
**NT2** alloy-ni75cr12al6mo5  
**NT3** inconel 713lc  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** inconel 700  
**NT2** inconel 738  
**NT2** inconel 739  
**NT1** konel  
**NT1** monel  
**NT2** alloy-ni66cu32  
**NT3** monel 400  
**NT1** microbraz 50  
**NT1** nimonic  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni65cr25mo10  
**NT3** nimonic 86  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** alloy-ni76cr20ti2  
**NT3** nimonic 80a  
**NT2** rene-100  
**NT1** rene 80  
**NT1** rene 95  
**NT1** td-nickel chromium  
**NT1** tophet  
**NT1** udimet alloys  
**NT2** alloy-ni53co19cr15mo5al4ti3  
**NT3** udimet 700  
**NT2** udimet 500  
**NICKEL BORIDES**  
 \*BT1 borides  
 \*BT1 nickel compounds

**NICKEL BROMIDES**

- \*BT1 bromides
- \*BT1 nickel compounds

**NICKEL-CADMIUM BATTERIES**

1992-10-02

- \*BT1 metal-metal oxide batteries

**NICKEL CARBIDES**

- \*BT1 carbides
- \*BT1 nickel compounds

**NICKEL CARBONATES**

- \*BT1 carbonates
- \*BT1 nickel compounds

**NICKEL CHLORIDES**

- \*BT1 chlorides
- \*BT1 nickel compounds

***nickel-chromium steels***

1983-11-14

*Steels containing Ni and Cr as main alloying elements; Ni content is higher than Cr content.*  
(Prior to November 1983 this was a valid descriptor, and older material is so indexed.)

- USE chromium alloys
- USE nickel steels

***nickel chromium-td***

- USE td-nickel chromium

**NICKEL COMPLEXES**

- \*BT1 transition element complexes

**NICKEL COMPOUNDS**

1997-06-17

- BT1 transition element compounds
- NT1 nickel arsenides
- NT1 nickel borides
- NT1 nickel bromides
- NT1 nickel carbides
- NT1 nickel carbonates
- NT1 nickel chlorides
- NT1 nickel fluorides
- NT1 nickel hydrides
- NT1 nickel hydroxides
- NT1 nickel iodides
- NT1 nickel nitrates
- NT1 nickel nitrides
- NT1 nickel oxides
- NT1 nickel phosphates
- NT1 nickel phosphides
- NT1 nickel selenides
- NT1 nickel silicates
- NT1 nickel silicides
- NT1 nickel sulfates
- NT1 nickel sulfides
- NT1 nickel tellurides
- NT1 nickel tungstates
- NT1 nickelates

**NICKEL FLUORIDES**

- \*BT1 fluorides
- \*BT1 nickel compounds

**NICKEL HYDRIDES**

- \*BT1 hydrides
- \*BT1 nickel compounds

**NICKEL-HYDROGEN BATTERIES**

1992-05-07

- \*BT1 metal-gas batteries

**NICKEL HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 nickel compounds

**NICKEL IODIDES**

- \*BT1 iodides
- \*BT1 nickel compounds

**NICKEL IONS**

- \*BT1 ions

***nickel-iron batteries***

INIS: 2000-04-12; ETDE: 1980-10-27

- USE iron-nickel batteries

**NICKEL ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 nickel 48
- NT1 nickel 49
- NT1 nickel 50
- NT1 nickel 51
- NT1 nickel 52
- NT1 nickel 53
- NT1 nickel 54
- NT1 nickel 55
- NT1 nickel 56
- NT1 nickel 57
- NT1 nickel 58
- NT1 nickel 59
- NT1 nickel 60
- NT1 nickel 61
- NT1 nickel 62
- NT1 nickel 63
- NT1 nickel 64
- NT1 nickel 65
- NT1 nickel 66
- NT1 nickel 67
- NT1 nickel 68
- NT1 nickel 69
- NT1 nickel 70
- NT1 nickel 71
- NT1 nickel 72
- NT1 nickel 73
- NT1 nickel 75
- NT1 nickel 76
- NT1 nickel 77
- NT1 nickel 78

**NICKEL NITRATES**

- \*BT1 nickel compounds
- \*BT1 nitrates

**NICKEL NITRIDES**

- \*BT1 nickel compounds
- \*BT1 nitrides

**NICKEL ORES**

- BT1 ores

**NICKEL OXIDES**

- \*BT1 nickel compounds
- \*BT1 oxides
- RT nickelates

**NICKEL PHOSPHATES**

- \*BT1 nickel compounds
- \*BT1 phosphates

**NICKEL PHOSPHIDES**

INIS: 1976-01-27; ETDE: 1975-10-01

- \*BT1 nickel compounds
- \*BT1 phosphides

**NICKEL SELENIDES**

INIS: 1991-09-16; ETDE: 1976-12-15

- \*BT1 nickel compounds
- \*BT1 selenides

**NICKEL SILICATES**

- \*BT1 nickel compounds
- \*BT1 silicates

**NICKEL SILICIDES**

INIS: 1976-01-27; ETDE: 1975-10-28

- \*BT1 nickel compounds
- \*BT1 silicides

***nickel silver***

1996-06-28

(Prior to July 1996 GERMAN SILVER was a valid ETDE descriptor.)

- USE copper base alloys
- USE nickel alloys
- USE zinc alloys

**NICKEL STEELS**

1994-07-01

*Steels containing Ni as the main alloying element.*

(Until June 1994 this concept was indexed to NICKEL ALLOYS.)

- UF *nickel-chromium steels*
- UF *steel-000kh20n20*
- UF *steel-1-kh18n20t3p*
- UF *steel-30n9k4*
- UF *steel-37khm3t*
- UF *steel-40kh2n5sm*
- UF *steel-kh12n20t3p*
- UF *steel-kh18n22v2t2*
- UF *steel-khn35vt*
- UF *steel-n26kht1*
- UF *steel-vzh102*
- \*BT1 nickel alloys
- \*BT1 steels
- NT1 sweetalloy
- RT chromium-nickel steels

**NICKEL SULFATES**

- \*BT1 nickel compounds
- \*BT1 sulfates

**NICKEL SULFIDES**

- \*BT1 nickel compounds
- \*BT1 sulfides

**NICKEL TELLURIDES**

INIS: 1984-07-23; ETDE: 1980-02-11

- \*BT1 nickel compounds
- \*BT1 tellurides

***nickel-thorium oxide dispersions***

INIS: 2000-04-12; ETDE: 1979-04-11

- USE td-nickel

**NICKEL TUNGSTATES**

INIS: 2000-04-12; ETDE: 1976-06-07

- \*BT1 nickel compounds
- \*BT1 tungstates

**NICKEL-ZINC BATTERIES**

2000-04-12

- \*BT1 metal-metal oxide batteries

**NICKELATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 nickel compounds
- BT1 oxygen compounds
- RT nickel oxides

**NICKELINE ALLOY**

2000-04-12

- \*BT1 copper base alloys
- \*BT1 nickel alloys
- \*BT1 zinc additions

**NICOTIANA**

- UF *tobacco plant*
- \*BT1 magnoliopsida
- RT tobacco
- RT tobacco products

**NICOTINAMIDE**

- UF *pp-factor*
- UF *vitamin pp*
- \*BT1 amides
- \*BT1 pyridines

\*BT1 vitamin b group  
 RT heterocyclic acids  
 RT nad  
 RT nadh2  
 RT nadp  
 RT nicotinic acid

**nicotinamide-adenine dinucleotide**

1995-02-16  
 USE nad

**nicotinamide-adenine dinucleotide phosphate**

INIS: 1995-02-16; ETDE: 1980-06-22  
 USE nadp

**NICOTINE**

\*BT1 alkaloids  
 \*BT1 parasympatholytics  
 \*BT1 parasympathomimetics  
 \*BT1 pyridines  
 \*BT1 pyrrolidines

**NICOTINIC ACID**

1976-02-05  
 UF niacin  
 \*BT1 heterocyclic acids  
 \*BT1 monocarboxylic acids  
 \*BT1 pyridines  
 \*BT1 vitamin b group  
 RT nicotinamide

**NICROBRAZ 50**

2000-04-12  
 \*BT1 chromium alloys  
 \*BT1 nickel base alloys  
 \*BT1 phosphides

**NIEDERAICHBACH REACTOR**

UF kernkraftwerk niederaichbach  
 UF knn reactor  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 hwgcr type reactors  
 \*BT1 pressure tube reactors  
 \*BT1 thermal reactors

**niels bohr institute cyclotron**

INIS: 1985-06-10; ETDE: 1985-07-19  
 USE nbi cyclotron

**nif**

INIS: 2000-04-12; ETDE: 1997-05-21  
 Facility for inertial confinement fusion.  
 USE us national ignition facility

**nigella**

USE ranunculaceae

**NIGER**

BT1 africa  
 BT1 developing countries  
 RT niger river

**NIGER RIVER**

INIS: 1976-07-06; ETDE: 1976-08-24  
 \*BT1 rivers  
 RT benin  
 RT guinea  
 RT mali  
 RT niger  
 RT nigeria

**NIGERIA**

BT1 africa  
 BT1 developing countries  
 RT niger river  
 RT opec

**nigeria miniature neutron source reactor**

2004-11-30  
 USE nirr-1 reactor

**NIGHT SKY**

INIS: 1990-12-15; ETDE: 1981-09-08  
 (Prior to December 1990, this concept was indexed by NIGHTTIME plus other descriptors from the wordblock EARTH ATMOSPHERE.)  
 UF nighttime (sky)  
 BT1 sky  
 RT airglow  
 RT aurorae

**nightglow**

USE airglow

**nighttime (sky)**

INIS: 1990-12-15; ETDE: 2002-04-16  
 USE night sky

**nii (uk)**

INIS: 1984-04-04; ETDE: 2002-04-16  
 Nuclear Installations Inspectorate.  
 USE uk nii

**NIKHEF**

INIS: 1977-07-05; ETDE: 1977-10-19  
 National Instituut voor Kernfysica en Hoge-energiefysica.  
 UF national instituut voor kernfysica en hogeenergiefysica  
 \*BT1 netherlands organizations

**NILE RIVER**

\*BT1 rivers  
 RT egyptian arab republic  
 RT sudan

**nilsson model**

USE nilsson-mottelson model

**NILSSON-MOTTELSON MODEL**

UF approximation (bohr)  
 UF bohr approximation  
 UF bohr-mottelson model  
 UF mottelson-nilsson model  
 UF nilsson model  
 UF nilsson potential  
 UF nilsson scheme  
 \*BT1 nuclear models

**nilsson potential**

USE nilsson-mottelson model

**nilsson scheme**

USE nilsson-mottelson model

**nim**

USE nuclear instrument modules

**NIMBUS SATELLITES**

INIS: 1983-09-06; ETDE: 1980-03-04  
 BT1 satellites

**NIMONIC**

1996-07-16  
 For unspecified Nimonic alloys.  
 UF alloy-ni48cr22fe18mo9  
 UF nimonic pe13  
 \*BT1 nickel base alloys  
 NT1 alloy-ni43fe33cr16mo3  
 NT2 nimonic pe16  
 NT1 alloy-ni50co20cr15al5mo5  
 NT2 nimonic 105  
 NT1 alloy-ni59cr20co17ti2  
 NT1 alloy-ni65cr25mo10  
 NT2 nimonic 86  
 NT1 alloy-ni76cr15fe8  
 NT2 inconel 600

NT1 alloy-ni76cr20ti2  
 NT2 nimonic 80a  
 NT1 nimonic 115  
 NT1 nimonic 115a  
 RT inconel alloys

**NIMONIC 105**

1993-10-03  
 \*BT1 alloy-ni50co20cr15al5mo5

**NIMONIC 115**

2000-04-12  
 \*BT1 aluminium alloys  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nimonic

**NIMONIC 115A**

2000-04-12  
 \*BT1 nimonic

**NIMONIC 80A**

1993-10-03  
 \*BT1 alloy-ni76cr20ti2

**NIMONIC 86**

INIS: 1993-10-03; ETDE: 1982-02-23  
 \*BT1 alloy-ni65cr25mo10

**nimonic 90**

INIS: 1997-01-28; ETDE: 1977-06-03  
 (Until October 1996 this was a valid descriptor.)  
 USE alloy-ni59cr20co17ti2

**nimonic pe13**

INIS: 1996-07-17; ETDE: 1979-10-23  
 (Until July 1996 this was a valid descriptor.)  
 USE nimonic

**NIMONIC PE16**

1993-10-03  
 \*BT1 alloy-ni43fe33cr16mo3

**NIMROD**

UF harwell synchrotron  
 \*BT1 synchrotrons

**NINA**

UF daresbury synchrotron  
 \*BT1 synchrotrons

**NINE MILE POINT-1 REACTOR**

NMPNS - a subsidiary of Constellation Energy Group, North Scriba, New York, USA.  
 UF scriba nuclear power plant  
 \*BT1 bwr type reactors

**NINE MILE POINT-2 REACTOR**

NMPNS - a subsidiary of Constellation Energy Group, North Scriba, New York, USA.  
 UF oswego nuclear power plant  
 \*BT1 bwr type reactors

**NINGYOITE**

\*BT1 phosphate minerals  
 \*BT1 uranium minerals  
 RT uranium phosphates

**ninhydrin**

1996-10-23  
 (Until October 1996 this was a valid descriptor.)  
 USE ketones

**NIOBATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.  
 \*BT1 niobium compounds  
 BT1 oxygen compounds

**NIOBIUM**

*UF columbium*  
 \*BT1 refractory metals  
 \*BT1 transition elements  
 NT1 niobium-alpha  
 NT1 niobium-beta

**NIOBIUM 100**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 niobium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**NIOBIUM 101**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 niobium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**NIOBIUM 102**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 niobium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**NIOBIUM 103**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 niobium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**NIOBIUM 104**

*INIS: 1976-11-08; ETDE: 1976-09-15*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 niobium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**NIOBIUM 105**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 niobium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**NIOBIUM 106**

*INIS: 1981-08-18; ETDE: 1980-10-28*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 niobium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**NIOBIUM 107**

*2007-04-19*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 niobium isotopes  
 \*BT1 odd-even nuclei

**NIOBIUM 108**

*1996-11-27*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 niobium isotopes  
 \*BT1 odd-odd nuclei

**NIOBIUM 109**

*2007-04-19*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 niobium isotopes  
 \*BT1 odd-even nuclei

**NIOBIUM 110**

*2007-04-19*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 niobium isotopes  
 \*BT1 odd-odd nuclei

**NIOBIUM 111**

*2007-04-19*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 niobium isotopes  
 \*BT1 odd-even nuclei

**NIOBIUM 112**

*2007-04-19*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 niobium isotopes  
 \*BT1 odd-odd nuclei

**NIOBIUM 113**

*2007-04-19*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 niobium isotopes  
 \*BT1 odd-even nuclei

**NIOBIUM 81**

*2007-04-19*  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 niobium isotopes  
 \*BT1 odd-even nuclei

**NIOBIUM 82**

*2007-04-19*  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 niobium isotopes  
 \*BT1 odd-odd nuclei

**NIOBIUM 83**

*1988-10-10*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 niobium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**NIOBIUM 84**

*1977-11-02*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 niobium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**NIOBIUM 85**

*INIS: 1997-02-07; ETDE: 1980-05-06*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 niobium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**NIOBIUM 86**

\*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 niobium isotopes  
 \*BT1 odd-odd nuclei

**NIOBIUM 87**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 niobium isotopes  
 \*BT1 odd-even nuclei

**NIOBIUM 88**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 niobium isotopes  
 \*BT1 odd-odd nuclei

**NIOBIUM 89**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 niobium isotopes  
 \*BT1 odd-even nuclei

**NIOBIUM 90**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 niobium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**NIOBIUM 91**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 niobium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 years living radioisotopes

**NIOBIUM 91 TARGET**

*INIS: 1992-09-23; ETDE: 1977-03-04*  
 BT1 targets

**NIOBIUM 92**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 niobium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 years living radioisotopes

**NIOBIUM 92 TARGET**

*INIS: 1988-05-13; ETDE: 1983-03-23*  
 BT1 targets

**NIOBIUM 93**

\*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 niobium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes  
 \*BT1 years living radioisotopes  
 RT niobium 93 reactions

**NIOBIUM 93 REACTIONS**

*INIS: 1976-01-28; ETDE: 1976-03-12*  
 \*BT1 heavy ion reactions  
 RT niobium 93

**NIOBIUM 93 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**NIOBIUM 94**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei



- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**NIObIUM 94 TARGET**

INIS: 1976-10-07; ETDE: 1976-11-01

- BT1 targets

**NIObIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei

**NIObIUM 95 TARGET**

INIS: 1979-11-02; ETDE: 1979-01-30

- BT1 targets

**NIObIUM 96**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei

**NIObIUM 96 TARGET**

INIS: 1976-10-07; ETDE: 1976-11-01

- BT1 targets

**NIObIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**NIObIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**NIObIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**NIObIUM ADDITIONS**

1996-11-13

Alloys containing not more than 1% Nb are listed here.

- \*BT1 niobium alloys
- NT1 alloy-ni45fe34cr20
- NT1 alloy-ni46cr23co19ti5al4
- NT2 alloy-in-939
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ni73cr15fe7ti3
- NT2 inconel x750
- NT1 alloy-yundk 25ba
- NT1 steel-cr16ni13monbv
- NT1 steel-cr16ni15mo3nb
- NT1 steel-cr16ni16monb
- NT1 steel-cr17cu4ni4nb-l
- NT2 stainless steel-17-4ph
- NT1 steel-cr17ni12monb
- NT1 steel-cr18ni11nb
- NT2 stainless steel-347
- NT1 steel-cr18ni11nbco
- NT2 stainless steel-348

- NT1 steel-cr2moninb
- NT1 steel-cr9monbv

**NIObIUM ALLOYS**

1996-11-13

Alloys containing more than 1% Nb.

- UF alloy-fe48cr24ni24
- UF alloy-in-519
- UF in 519
- \*BT1 transition element alloys
- NT1 alloy-in-102
- NT1 alloy-khn50mbvvy
- NT1 alloy-mn-21
- NT1 alloy-ni41fe40cr16nb3
- NT2 inconel 706
- NT1 alloy-ni53cr19fe19nb5mo3
- NT2 inconel 718
- NT1 alloy-ni61cr22mo9nb4fe3
- NT2 inconel 625
- NT1 alloy-ni73cr20mn3nb3
- NT2 inconel 82
- NT1 alloy-ni74cr13al6mo4
- NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5
- NT2 inconel 713lc
- NT1 alloy-s-590
- NT1 alloy-s-816
- NT1 alloy-u90nb7zr3
- NT1 alloy-v-36
- NT1 alloy-zr97nb3
- NT1 niobium additions
- NT2 alloy-ni45fe34cr20
- NT2 alloy-ni46cr23co19ti5al4
- NT3 alloy-in-939
- NT2 alloy-ni61cr16co9al3ti3w3
- NT3 alloy-in-738
- NT2 alloy-ni73cr15fe7ti3
- NT3 inconel x750
- NT2 alloy-yundk 25ba
- NT2 steel-cr16ni13monbv
- NT2 steel-cr16ni15mo3nb
- NT2 steel-cr16ni16monb
- NT2 steel-cr17cu4ni4nb-l
- NT3 stainless steel-17-4ph
- NT2 steel-cr17ni12monb
- NT2 steel-cr18ni11nb
- NT3 stainless steel-347
- NT2 steel-cr18ni11nbco
- NT3 stainless steel-348
- NT2 steel-cr2moninb
- NT2 steel-cr9monbv
- NT1 niobium base alloys
- NT2 alloy-c-103
- NT2 alloy-n-10m
- NT2 alloy-n-9m
- NT2 alloy-nt25a5
- NT1 rene 95
- NT1 steel-in-787

**NIObIUM-ALPHA**

- \*BT1 niobium

**NIObIUM ARSENIDES**

INIS: 1982-08-27; ETDE: 1982-05-24

- \*BT1 arsenides
- \*BT1 niobium compounds

**NIObIUM BASE ALLOYS**

1996-07-16

- UF alloy-b-66
- UF alloy-b-88
- UF alloy-c-129y
- UF alloy-cb-1
- UF alloy-cb-752
- UF alloy-d-43
- UF alloy-dh-245
- UF alloy-fs-85
- UF alloy-su31
- UF alloy-vus-6
- SF alloy-vn-3

- \*BT1 niobium alloys
- NT1 alloy-c-103
- NT1 alloy-n-10m
- NT1 alloy-n-9m
- NT1 alloy-nt25a5

**NIObIUM-BETA**

- \*BT1 niobium

**NIObIUM BORIDES**

- \*BT1 borides
- \*BT1 niobium compounds

**NIObIUM BROMIDES**

- \*BT1 bromides
- \*BT1 niobium compounds

**NIObIUM CARBIDES**

- \*BT1 carbides
- \*BT1 niobium compounds

**NIObIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 niobium compounds

**NIObIUM COMPLEXES**

- \*BT1 transition element complexes

**NIObIUM COMPOUNDS**

1997-06-17

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 niobates
- NT1 niobium arsenides
- NT1 niobium borides
- NT1 niobium bromides
- NT1 niobium carbides
- NT1 niobium chlorides
- NT1 niobium fluorides
- NT1 niobium hydrides
- NT1 niobium hydroxides
- NT1 niobium iodides
- NT1 niobium nitrates
- NT1 niobium nitrides
- NT1 niobium oxides
- NT1 niobium phosphates
- NT1 niobium phosphides
- NT1 niobium selenides
- NT1 niobium silicates
- NT1 niobium silicides
- NT1 niobium sulfates
- NT1 niobium sulfides
- NT1 niobium tellurides

**NIObIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 niobium compounds

**NIObIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 niobium compounds

**NIObIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 niobium compounds

**NIObIUM IODIDES**

- \*BT1 iodides
- \*BT1 niobium compounds

**NIObIUM IONS**

- \*BT1 ions

**NIObIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 niobium 100
- NT1 niobium 101
- NT1 niobium 102
- NT1 niobium 103
- NT1 niobium 104
- NT1 niobium 105
- NT1 niobium 106

NT1 niobium 107  
 NT1 niobium 108  
 NT1 niobium 109  
 NT1 niobium 110  
 NT1 niobium 111  
 NT1 niobium 112  
 NT1 niobium 113  
 NT1 niobium 81  
 NT1 niobium 82  
 NT1 niobium 83  
 NT1 niobium 84  
 NT1 niobium 85  
 NT1 niobium 86  
 NT1 niobium 87  
 NT1 niobium 88  
 NT1 niobium 89  
 NT1 niobium 90  
 NT1 niobium 91  
 NT1 niobium 92  
 NT1 niobium 93  
 NT1 niobium 94  
 NT1 niobium 95  
 NT1 niobium 96  
 NT1 niobium 97  
 NT1 niobium 98  
 NT1 niobium 99

**NIOBIUM NITRATES**

\*BT1 niobium compounds  
 \*BT1 nitrates

**NIOBIUM NITRIDES**

\*BT1 niobium compounds  
 \*BT1 nitrides

**NIOBIUM ORES**

BT1 ores

**NIOBIUM OXIDES**

1996-06-28

\*BT1 niobium compounds  
 \*BT1 oxides  
 RT ellsworthite  
 RT lyndochite  
 RT marignacite  
 RT oxide minerals  
 RT tapiolite

**NIOBIUM PHOSPHATES**

\*BT1 niobium compounds  
 \*BT1 phosphates

**NIOBIUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1976-09-14

\*BT1 niobium compounds  
 \*BT1 phosphides

**NIOBIUM SELENIDES**

\*BT1 niobium compounds  
 \*BT1 selenides

**NIOBIUM SILICATES**

\*BT1 niobium compounds  
 \*BT1 silicates  
 RT mesodialyte  
 RT silicate minerals

**NIOBIUM SILICIDES**

1976-01-27

\*BT1 niobium compounds  
 \*BT1 silicides

**NIOBIUM SULFATES**

\*BT1 niobium compounds  
 \*BT1 sulfates

**NIOBIUM SULFIDES**

\*BT1 niobium compounds  
 \*BT1 sulfides

**NIOBIUM TELLURIDES**

INIS: 1979-05-28; ETDE: 1975-11-11

\*BT1 niobium compounds

\*BT1 tellurides

**niosh**

INIS: 2000-04-12; ETDE: 1980-03-29

(Prior to January 1992 this was a valid ETDE descriptor.)

USE us niosh

**niper**

INIS: 2000-04-12; ETDE: 1984-05-08

(Prior to November 1991 this was a valid ETDE descriptor.)

USE us niper

**nippostrongylus**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE hookworm

**NIRR-1 REACTOR**

2004-11-30

Centre for Energy Research and Training (CERT), Ahmadu Bello Univ., Energy Commission, Zaria, Nigeria.

UF nigeria miniature neutron source reactor

\*BT1 mnsr type reactors

**NIRS CYCLOTRON**

INIS: 1979-12-20; ETDE: 1980-01-24

Installed at the National Institute of Radiological Science in Japan.

UF national institute of radiological science cyclotron

\*BT1 isochronous cyclotrons

**NISUS FACILITY**

UF neutron international standard neutron source

UF neutron international standard uranium source

\*BT1 neutron sources

RT calibration standards

RT fast neutrons

RT measuring instruments

**NITELLA**

\*BT1 chlorophycota

**nitinol**

INIS: 2000-04-12; ETDE: 1976-08-25

Shape memory alloys of Ti and Ni. Use the descriptors below and SHAPE MEMORY EFFECT, if relevant.

(Prior to May 1996 this was a valid ETDE descriptor.)

USE nickel alloys

USE titanium alloys

**NITINOL HEAT ENGINES**

INIS: 2000-04-12; ETDE: 1975-11-11

Heat engines with the thermo-mechanical converter consisting of a solid-state system incorporating the shape memory intermetallic nickel titanium compound called nitinol as their working fluid.

\*BT1 heat engines

RT shape memory effect

RT solar heat engines

**NITRATES**

1997-06-19

BT1 nitrogen compounds

BT1 oxygen compounds

NT1 aluminium nitrates

NT1 americium nitrates

NT1 ammonium nitrates

NT1 barium nitrates

NT1 berkelium nitrates

NT1 beryllium nitrates

NT1 bismuth nitrates

NT1 cadmium nitrates

NT1 calcium nitrates

NT1 californium nitrates

NT1 cerium nitrates

NT1 cesium nitrates

NT1 chlorine nitrates

NT1 chromium nitrates

NT1 cobalt nitrates

NT1 copper nitrates

NT1 curium nitrates

NT1 dysprosium nitrates

NT1 einsteinium nitrates

NT1 erbium nitrates

NT1 europium nitrates

NT1 gadolinium nitrates

NT1 gallium nitrates

NT1 hafnium nitrates

NT1 holmium nitrates

NT1 indium nitrates

NT1 iron nitrates

NT1 lanthanum nitrates

NT1 lead nitrates

NT1 lithium nitrates

NT1 lutetium nitrates

NT1 magnesium nitrates

NT1 manganese nitrates

NT1 mercury nitrates

NT1 molybdenum nitrates

NT1 neodymium nitrates

NT1 neptunium nitrates

NT1 nickel nitrates

NT1 niobium nitrates

NT1 palladium nitrates

NT1 peroxyacetyl nitrate

NT1 petn

NT1 plutonium nitrates

NT1 polonium nitrates

NT1 potassium nitrates

NT1 praseodymium nitrates

NT1 promethium nitrates

NT1 protactinium nitrates

NT1 radium nitrates

NT1 rubidium nitrates

NT1 ruthenium nitrates

NT1 samarium nitrates

NT1 scandium nitrates

NT1 silver nitrates

NT1 sodium nitrates

NT1 strontium nitrates

NT1 tellurium nitrates

NT1 terbium nitrates

NT1 thallium nitrates

NT1 thorium nitrates

NT1 thulium nitrates

NT1 titanium nitrates

NT1 uranium nitrates

NT1 uranyl nitrates

NT2 unh

NT1 vanadium nitrates

NT1 ytterbium nitrates

NT1 yttrium nitrates

NT1 zinc nitrates

NT1 zirconium nitrates

RT nitric acid

RT oxynitrates

**NITRATION**

INIS: 1978-07-03; ETDE: 1976-02-19

BT1 chemical reactions

RT nitro compounds

RT nitrogen

**NITRIC ACID**

UF hydrogen nitrates

\*BT1 inorganic acids

BT1 nitrogen compounds

BT1 oxygen compounds

RT aqua regia

RT denitration

RT nitrates

**NITRIC ACID ESTERS**

- UF methyl nitrate  
 \*BT1 esters  
 NT1 nitrocellulose  
 NT1 nitroglycerin  
 NT1 peroxyacetyl nitrate  
 NT1 petn

**NITRIC OXIDE**

INIS: 1984-04-04; ETDE: 1976-01-07

NO.

- \*BT1 nitrogen oxides

**NITRIDATION**

- BT1 chemical reactions  
 RT nitrides

**NITRIDES**

1997-06-19

- BT1 nitrogen compounds  
 BT1 pnictides  
 NT1 aluminium nitrides  
 NT1 americium nitrides  
 NT1 argon nitrides  
 NT1 barium nitrides  
 NT1 berkelium nitrides  
 NT1 beryllium nitrides  
 NT1 boron nitrides  
 NT1 calcium nitrides  
 NT1 californium nitrides  
 NT1 carbon nitrides  
 NT1 cerium nitrides  
 NT1 cesium nitrides  
 NT1 chromium nitrides  
 NT1 copper nitrides  
 NT1 curium nitrides  
 NT1 dysprosium nitrides  
 NT1 erbium nitrides  
 NT1 europium nitrides  
 NT1 gadolinium nitrides  
 NT1 gallium nitrides  
 NT1 germanium nitrides  
 NT1 hafnium nitrides  
 NT1 holmium nitrides  
 NT1 indium nitrides  
 NT1 iron nitrides  
 NT1 lanthanum nitrides  
 NT1 lead nitrides  
 NT1 lithium nitrides  
 NT1 magnesium nitrides  
 NT1 manganese nitrides  
 NT1 molybdenum nitrides  
 NT1 neodymium nitrides  
 NT1 neptunium nitrides  
 NT1 nickel nitrides  
 NT1 niobium nitrides  
 NT1 palladium nitrides  
 NT1 phosphorus nitrides  
 NT1 plutonium nitrides  
 NT1 potassium nitrides  
 NT1 praseodymium nitrides  
 NT1 radium nitrides  
 NT1 rhenium nitrides  
 NT1 rhodium nitrides  
 NT1 ruthenium nitrides  
 NT1 samarium nitrides  
 NT1 scandium nitrides  
 NT1 silicon nitrides  
 NT1 silver nitrides  
 NT1 sodium nitrides  
 NT1 sulfur nitrides  
 NT1 tantalum nitrides  
 NT1 terbium nitrides  
 NT1 thorium nitrides  
 NT1 thulium nitrides  
 NT1 tin nitrides  
 NT1 titanium nitrides  
 NT1 tungsten nitrides  
 NT1 uranium nitrides  
 NT1 vanadium nitrides

- NT1 ytterbium nitrides  
 NT1 yttrium nitrides  
 NT1 zinc nitrides  
 NT1 zirconium nitrides  
 RT carbonitrides  
 RT ceramics  
 RT nitridation

**NITRIFICATION**

INIS: 2000-05-04; ETDE: 1981-08-04

*The oxidation by bacteria of ammonium salts to nitrites and the further oxidation to nitrates under proper conditions of temperature, moisture, and alkalinity.*

- BT1 chemical reactions  
 RT denitrification  
 RT nitrogen  
 RT nitrogen compounds  
 RT nitrogen cycle  
 RT nitrogen fixation

**NITRILES**

- UF polyacrylonitrile  
 \*BT1 organic nitrogen compounds  
 NT1 acetonitrile  
 NT1 acrylonitrile  
 NT1 propiolonitrile  
 NT1 ttf-tenq  
 RT carboxylic acids  
 RT isonitriles

**nitrotriactic acid**

USE nta

**NITRITES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1 nitrogen compounds  
 BT1 oxygen compounds  
 RT nitrous acid

**NITRO COMPOUNDS**

1996-07-08

- UF ndpp  
 \*BT1 organic nitrogen compounds  
 NT1 dinitrophenol  
 NT1 dpph  
 NT1 metronidazole  
 NT1 misonidazole  
 NT1 nitrobenzene  
 NT1 nitromethane  
 NT1 nitrophenol  
 NT1 picric acid  
 NT1 polycyclic nitro compounds  
 NT1 tetryl  
 NT1 tnt  
 RT nitration

**NITRO-GROUP DEHYDROGENASES**

INIS: 2000-03-29; ETDE: 1981-01-12

Code number 1.7.

(From 1974 till March 1997 URICASE was a valid ETDE descriptor. From June 1984 till March 1997 NITROREDUCTASES was a valid ETDE descriptor.)

- UF nitroreductases  
 UF uricase  
 \*BT1 oxidoreductases  
 NT1 nitrogenase

**NITROBENZENE**

- \*BT1 nitro compounds  
 RT benzene

**NITROCELLULOSE**

- UF collodion  
 UF gun cotton  
 UF pyroxylin  
 \*BT1 cellulose esters  
 \*BT1 chemical explosives

- \*BT1 nitric acid esters  
 \*BT1 polysaccharides  
 RT celluloid

**NITROGEN**

- UF nitrogen nitrides  
 UF tioga nitrogen removal process  
 \*BT1 nonmetals  
 RT cryogenic fluids  
 RT denitrification  
 RT inert atmosphere  
 RT kjeldahl method  
 RT nitration  
 RT nitrification  
 RT nitrogen fixation

**NITROGEN 10**

2007-11-22

- \*BT1 light nuclei  
 \*BT1 nitrogen isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes

**NITROGEN 11**

- \*BT1 light nuclei  
 \*BT1 nitrogen isotopes  
 \*BT1 odd-even nuclei

**NITROGEN 12**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nitrogen isotopes  
 \*BT1 odd-odd nuclei

**NITROGEN 12 TARGET**

ETDE: 1976-07-09

BT1 targets

**NITROGEN 13**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 nitrogen isotopes  
 \*BT1 odd-even nuclei

**NITROGEN 13 BEAMS**

INIS: 1984-01-18; ETDE: 1988-12-05

- \*BT1 radioactive ion beams

**NITROGEN 13 REACTIONS**

1992-02-18

- \*BT1 heavy ion reactions

**NITROGEN 13 TARGET**

ETDE: 1976-07-09

BT1 targets

**NITROGEN 14**

- \*BT1 light nuclei  
 \*BT1 nitrogen isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 stable isotopes  
 RT nitrogen 14 beams  
 RT nitrogen 14 reactions

**NITROGEN 14 BEAMS**

- \*BT1 ion beams  
 RT nitrogen 14

**NITROGEN 14 REACTIONS**

- \*BT1 heavy ion reactions  
 RT nitrogen 14

**NITROGEN 14 TARGET**

ETDE: 1976-07-09

BT1 targets

**NITROGEN 15**

- \*BT1 light nuclei  
 \*BT1 nitrogen isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes

*RT* nitrogen 15 reactions

**NITROGEN 15 BEAMS**

1980-05-14

\*BT1 ion beams

**NITROGEN 15 REACTIONS**

\*BT1 heavy ion reactions

*RT* nitrogen 15

**NITROGEN 15 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**NITROGEN 16**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**NITROGEN 16 TARGET**

*INIS: 1977-09-15; ETDE: 1977-11-10*

BT1 targets

**NITROGEN 17**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**NITROGEN 18**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 nitrogen isotopes

\*BT1 odd-odd nuclei

**NITROGEN 19**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 nitrogen isotopes

\*BT1 odd-even nuclei

**NITROGEN 20**

1985-06-07

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-odd nuclei

**NITROGEN 21**

*INIS: 1986-04-02; ETDE: 1988-12-05*

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-even nuclei

**NITROGEN 22**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-odd nuclei

**NITROGEN 23**

1985-10-22

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-even nuclei

**NITROGEN 24**

2007-11-22

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-odd nuclei

**NITROGEN 25**

2007-11-22

\*BT1 light nuclei

\*BT1 nitrogen isotopes

\*BT1 odd-even nuclei

**NITROGEN ADDITIONS**

1996-11-13

BT1 alloys

NT1 steel-cr21mn9ni6

NT2 stainless steel-21-6-9

NT1 steel-nicrmo

**NITROGEN BROMIDES**

*INIS: 2000-04-12; ETDE: 1980-12-08*

\*BT1 bromides

BT1 nitrogen compounds

**NITROGEN CARBIDES**

\*BT1 carbides

BT1 nitrogen compounds

**NITROGEN CHLORIDES**

\*BT1 chlorides

BT1 nitrogen compounds

**NITROGEN COMPLEXES**

BT1 complexes

**NITROGEN COMPOUNDS**

1997-06-17

NT1 azides

NT1 carbonitrides

NT1 cyanates

NT1 hydrazine

NT1 isocyanates

NT1 isothiocyanates

NT1 nitrates

NT2 aluminium nitrates

NT2 americium nitrates

NT2 ammonium nitrates

NT2 barium nitrates

NT2 berkelium nitrates

NT2 beryllium nitrates

NT2 bismuth nitrates

NT2 cadmium nitrates

NT2 calcium nitrates

NT2 californium nitrates

NT2 cerium nitrates

NT2 cesium nitrates

NT2 chlorine nitrates

NT2 chromium nitrates

NT2 cobalt nitrates

NT2 copper nitrates

NT2 curium nitrates

NT2 dysprosium nitrates

NT2 einsteinium nitrates

NT2 erbium nitrates

NT2 europium nitrates

NT2 gadolinium nitrates

NT2 gallium nitrates

NT2 hafnium nitrates

NT2 holmium nitrates

NT2 indium nitrates

NT2 iron nitrates

NT2 lanthanum nitrates

NT2 lead nitrates

NT2 lithium nitrates

NT2 lutetium nitrates

NT2 magnesium nitrates

NT2 manganese nitrates

NT2 mercury nitrates

NT2 molybdenum nitrates

NT2 neodymium nitrates

NT2 neptunium nitrates

NT2 nickel nitrates

NT2 niobium nitrates

NT2 palladium nitrates

NT2 peroxyacetyl nitrate

NT2 petn

NT2 plutonium nitrates

NT2 polonium nitrates

NT2 potassium nitrates

NT2 praseodymium nitrates

NT2 promethium nitrates

NT2 protactinium nitrates

NT2 radium nitrates

NT2 rubidium nitrates

NT2 ruthenium nitrates

NT2 samarium nitrates

NT2 scandium nitrates

NT2 silver nitrates

NT2 sodium nitrates

NT2 strontium nitrates

NT2 tellurium nitrates

NT2 terbium nitrates

NT2 thallium nitrates

NT2 thorium nitrates

NT2 thulium nitrates

NT2 titanium nitrates

NT2 uranium nitrates

NT2 uranyl nitrates

NT3 unh

NT2 vanadium nitrates

NT2 ytterbium nitrates

NT2 yttrium nitrates

NT2 zinc nitrates

NT2 zirconium nitrates

NT1 nitric acid

NT1 nitrides

NT2 aluminium nitrides

NT2 americium nitrides

NT2 argon nitrides

NT2 barium nitrides

NT2 berkelium nitrides

NT2 beryllium nitrides

NT2 boron nitrides

NT2 calcium nitrides

NT2 californium nitrides

NT2 carbon nitrides

NT2 cerium nitrides

NT2 cesium nitrides

NT2 chromium nitrides

NT2 copper nitrides

NT2 curium nitrides

NT2 dysprosium nitrides

NT2 erbium nitrides

NT2 europium nitrides

NT2 gadolinium nitrides

NT2 gallium nitrides

NT2 germanium nitrides

NT2 hafnium nitrides

NT2 holmium nitrides

NT2 indium nitrides

NT2 iron nitrides

NT2 lanthanum nitrides

NT2 lead nitrides

NT2 lithium nitrides

NT2 magnesium nitrides

NT2 manganese nitrides

NT2 molybdenum nitrides

NT2 neodymium nitrides

NT2 neptunium nitrides

NT2 nickel nitrides

NT2 niobium nitrides

NT2 palladium nitrides

NT2 phosphorus nitrides

NT2 plutonium nitrides

NT2 potassium nitrides

NT2 praseodymium nitrides

NT2 radium nitrides

NT2 rhenium nitrides

NT2 rhodium nitrides

NT2 ruthenium nitrides

NT2 samarium nitrides

NT2 scandium nitrides

NT2 silicon nitrides

NT2 silver nitrides

NT2 sodium nitrides

NT2 sulfur nitrides

NT2 tantalum nitrides

NT2 terbium nitrides

NT2 thorium nitrides

NT2 thulium nitrides

NT2 tin nitrides

**NT2** titanium nitrides  
**NT2** tungsten nitrides  
**NT2** uranium nitrides  
**NT2** vanadium nitrides  
**NT2** ytterbium nitrides  
**NT2** yttrium nitrides  
**NT2** zinc nitrides  
**NT2** zirconium nitrides  
**NT1** nitrites  
**NT1** nitrogen bromides  
**NT1** nitrogen carbides  
**NT1** nitrogen chlorides  
**NT1** nitrogen fluorides  
**NT1** nitrogen hydrides  
**NT2** ammonia  
**NT1** nitrogen iodides  
**NT1** nitrogen oxides  
**NT2** nitric oxide  
**NT2** nitrogen dioxide  
**NT2** nitrous oxide  
**NT1** nitrous acid  
**NT1** oxynitrates  
**RT** denitrification  
**RT** nitrification  
**RT** organic nitrogen compounds

**NITROGEN COOLED REACTORS**

**\*BT1** gas cooled reactors  
**NT1** htlr reactor  
**NT1** ml-l reactor  
**NT1** zenith reactor

**NITROGEN CYCLE**

**RT** ecological concentration  
**RT** ecosystems  
**RT** fertilizers  
**RT** metabolism  
**RT** mineral cycling  
**RT** nitrification  
**RT** nitrogen fixation

**NITROGEN DIOXIDE**

*INIS: 1977-09-06; ETDE: 1976-01-07*  
**NO2**  
**\*BT1** nitrogen oxides

**NITROGEN FIXATION**

*1997-06-17*  
**UF** fixation (nitrogen)  
**RT** air  
**RT** bacteria  
**RT** frankia  
**RT** metabolism  
**RT** nitrification  
**RT** nitrogen  
**RT** nitrogen cycle  
**RT** nitrogenase  
**RT** plant growth  
**RT** rhizobium  
**RT** soils

**NITROGEN FLUORIDES**

**\*BT1** fluorides  
**BT1** nitrogen compounds

**NITROGEN HYDRIDES**

**\*BT1** hydrides  
**BT1** nitrogen compounds  
**NT1** ammonia

**NITROGEN IODIDES**

*2000-04-12*  
**\*BT1** iodides  
**BT1** nitrogen compounds

**NITROGEN IONS**

**\*BT1** ions

**NITROGEN ISOTOPES**

*1999-07-16*  
**BT1** isotopes  
**NT1** nitrogen 10

**NT1** nitrogen 11  
**NT1** nitrogen 12  
**NT1** nitrogen 13  
**NT1** nitrogen 14  
**NT1** nitrogen 15  
**NT1** nitrogen 16  
**NT1** nitrogen 17  
**NT1** nitrogen 18  
**NT1** nitrogen 19  
**NT1** nitrogen 20  
**NT1** nitrogen 21  
**NT1** nitrogen 22  
**NT1** nitrogen 23  
**NT1** nitrogen 24  
**NT1** nitrogen 25

**NITROGEN MUSTARD**

**UF** bis(chloroethyl)amine  
**UF** dichlorodiethylamine  
**UF** mustard (nitrogen)  
**BT1** alkylating agents  
**\*BT1** amines  
**\*BT1** organic chlorine compounds  
**RT** mutagens

**nitrogen nitrides**

**USE** nitrogen

**NITROGEN OXIDES**

**BT1** nitrogen compounds  
**\*BT1** oxides  
**NT1** nitric oxide  
**NT1** nitrogen dioxide  
**NT1** nitrous oxide  
**RT** greenhouse gases  
**RT** selective catalytic reduction

**nitrogen sulfides**

**USE** sulfur nitrides

**NITROGEN TRANSFERASES**

*INIS: 1986-12-03; ETDE: 1981-01-30*  
*Code number 2.6.*  
**\*BT1** transferases  
**NT1** aminotransferases

**NITROGENASE**

*INIS: 1983-10-14; ETDE: 1981-01-12*  
**UF** nitrogenases  
**\*BT1** nitro-group dehydrogenases  
**RT** nitrogen fixation

**nitrogenases**

*INIS: 2000-04-12; ETDE: 1978-12-11*  
 (Prior to January 1981, this was a valid ETDE descriptor.)  
**USE** nitrogenase

**NITROGLYCERIN**

*2000-04-12*  
**\*BT1** chemical explosives  
**\*BT1** nitric acid esters  
**RT** glycerol

**NITROMETHANE**

*INIS: 1980-12-01; ETDE: 1976-09-14*  
**\*BT1** chemical explosives  
**\*BT1** nitro compounds  
**RT** methane

**nitronic 40**

*INIS: 1980-09-11; ETDE: 1979-12-10*  
**USE** stainless steel-21-6-9

**NITROPHENOL**

**\*BT1** nitro compounds  
**\*BT1** phenols  
**RT** dinitrophenol

**nitroreductases**

*INIS: 2000-04-12; ETDE: 1984-06-29*  
 A group of enzymes involved in the reduction of nitrate compounds.  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
**USE** nitro-group dehydrogenases

**NITROSAMINES**

*INIS: 2000-04-12; ETDE: 1982-01-21*  
**\*BT1** amines  
**\*BT1** nitroso compounds  
**RT** carcinogens  
**RT** mutagens

**NITROSO COMPOUNDS**

**UF** dinitrosoresorcinol  
**\*BT1** organic nitrogen compounds  
**NT1** 1-nitroso-2-naphthol  
**NT1** methyl nitrosourea  
**NT1** nitrosamines  
**NT1** nitroso-r salt  
**NT1** nitrosoureas

**NITROSO-R SALT**

**\*BT1** naphthols  
**\*BT1** nitroso compounds  
**\*BT1** sulfonic acids

**NITROSOUREAS**

*INIS: 1985-01-17; ETDE: 1984-06-29*  
**\*BT1** nitroso compounds  
**RT** urea

**NITROUS ACID**

**\*BT1** inorganic acids  
**BT1** nitrogen compounds  
**BT1** oxygen compounds  
**RT** nitrites

**NITROUS ACID ESTERS**

*INIS: 2000-04-12; ETDE: 1976-12-16*  
**\*BT1** esters

**NITROUS OXIDE**

*INIS: 1984-04-04; ETDE: 1976-01-07*  
**N2O**  
**\*BT1** nitrogen oxides  
**RT** anesthetics

**NITROXYL RADICALS**

*INIS: 1981-08-06; ETDE: 1981-09-22*  
**BT1** radicals

**nk cells**

*INIS: 1992-01-28; ETDE: 2002-04-16*  
**USE** natural killer cells

**nmp(net material product)**

*INIS: 2000-04-12; ETDE: 1979-11-07*  
**SEE** gross domestic product  
**SEE** gross national product

**nmr**

**USE** nuclear magnetic resonance

**NMR IMAGING**

*INIS: 1986-05-23; ETDE: 1986-11-18*  
**BT1** diagnostic techniques  
**RT** nuclear magnetic resonance

**nmr logging**

*INIS: 1978-04-21; ETDE: 1976-06-07*  
**USE** nuclear magnetic logging

**NMR SPECTRA**

*INIS: 1978-04-21; ETDE: 1978-07-06*  
 Nuclear Magnetic Resonance spectra.  
**UF** nuclear magnetic resonance spectra  
**UF** pmr spectra  
**UF** proton magnetic resonance spectra  
**BT1** spectra  
**RT** nuclear magnetic resonance

**NMR SPECTROMETERS**

\*BT1 spectrometers

**NN-2170 DIBARYONS***INIS: 1987-12-21; ETDE: 1988-03-16*

\*BT1 dibaryons

**NN-2250 DIBARYONS***INIS: 1987-12-21; ETDE: 1988-03-16*

\*BT1 dibaryons

**no. 2 fuel oil***INIS: 2000-04-12; ETDE: 1976-03-11*

USE heating oils

**NOBELIUM**

\*BT1 actinides

\*BT1 transplutonium elements

**NOBELIUM 248***2007-04-19*

\*BT1 actinide nuclei

\*BT1 even-even nuclei

\*BT1 nobelium isotopes

**NOBELIUM 250***INIS: 1976-03-25; ETDE: 1975-11-26*

\*BT1 actinide nuclei

\*BT1 even-even nuclei

\*BT1 microseconds living radioisotopes

\*BT1 nobelium isotopes

\*BT1 spontaneous fission radioisotopes

**NOBELIUM 251**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 nobelium isotopes

**NOBELIUM 252**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 nobelium isotopes

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**NOBELIUM 253**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 nobelium isotopes

**NOBELIUM 254**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 isomeric transition isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 nobelium isotopes

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**NOBELIUM 255**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 nobelium isotopes

**NOBELIUM 256**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 nobelium isotopes

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**NOBELIUM 257**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 nobelium isotopes

\*BT1 seconds living radioisotopes

**NOBELIUM 258**

\*BT1 actinide nuclei

\*BT1 even-even nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 nobelium isotopes

\*BT1 spontaneous fission radioisotopes

**NOBELIUM 259**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 nobelium isotopes

**NOBELIUM 260***INIS: 1978-08-14; ETDE: 1978-10-19*

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 nobelium isotopes

**NOBELIUM 261***INIS: 1987-02-25; ETDE: 1987-05-01*

\*BT1 actinide nuclei

\*BT1 even-odd nuclei

\*BT1 nobelium isotopes

**NOBELIUM 262***INIS: 1987-02-25; ETDE: 1987-05-01*

\*BT1 actinide nuclei

\*BT1 even-even nuclei

\*BT1 nobelium isotopes

**NOBELIUM 263***2007-04-19*

\*BT1 actinide nuclei

\*BT1 even-odd nuclei

\*BT1 nobelium isotopes

**NOBELIUM 264***INIS: 1993-03-10; ETDE: 1993-04-16*

\*BT1 actinide nuclei

\*BT1 even-even nuclei

\*BT1 nobelium isotopes

**NOBELIUM COMPLEXES**

\*BT1 actinide complexes

\*BT1 transuranium complexes

**NOBELIUM COMPOUNDS***1996-07-18*

BT1 actinide compounds

\*BT1 transplutonium compounds

NT1 nobelium oxides

**nobelium ions***1996-07-18*

(Until July 1996 this was a valid descriptor.)

USE ions

**NOBELIUM ISOTOPES***1999-07-16*

BT1 isotopes

NT1 nobelium 248

NT1 nobelium 250

NT1 nobelium 251

NT1 nobelium 252

NT1 nobelium 253

NT1 nobelium 254

NT1 nobelium 255

NT1 nobelium 256

NT1 nobelium 257

NT1 nobelium 258

NT1 nobelium 259

NT1 nobelium 260

NT1 nobelium 261

NT1 nobelium 262

NT1 nobelium 263

NT1 nobelium 264

**NOBELIUM OXIDES***1996-07-18*

(From July 1996 to November 2007

NOBELIUM COMPOUNDS + OXIDES was

used for this concept.)

\*BT1 nobelium compounds

\*BT1 oxides

**noble gases**

USE rare gases

**NOCARDIA**

\*BT1 bacteria

RT actinomyces

**NOCTILUCENT CLOUDS***2000-04-12*

BT1 clouds

RT airglow

RT luminescence

**NOCTURNAL VARIATIONS***INIS: 2000-04-12; ETDE: 1980-07-09*

BT1 variations

RT daily variations

**NODAL EXPANSION METHOD***INIS: 1989-09-15; ETDE: 1989-10-16*

BT1 calculation methods

RT finite difference method

RT finite element method

RT mathematics

RT mesh generation

**NODULAR CORROSION***INIS: 1992-06-17; ETDE: 1992-07-02*

\*BT1 corrosion

**NOGENT SUR SEINE-1 REACTOR***INIS: 1984-07-23; ETDE: 1984-09-05*

\*BT1 pwr type reactors

**NOGENT SUR SEINE-2 REACTOR***INIS: 1984-07-23; ETDE: 1984-09-05*

\*BT1 pwr type reactors

**NOGIZAWALITE***2000-04-12*

\*BT1 oxide minerals

RT zirconium oxides

**NOISE**

NT1 background noise

NT1 radio noise

NT2 atmospheric

NT2 whistlers

NT1 seismic noise

NT1 temperature noise

RT fluctuations

RT noise pollution

RT noise pollution abatement

RT noise pollution control

RT signal-to-noise ratio

RT steam mufflers

**noise (reactor)**

USE reactor noise

**NOISE DOSEMETERS***INIS: 1992-05-05; ETDE: 1983-08-25*

BT1 measuring instruments

RT acoustic measurements

RT noise pollution

**NOISE POLLUTION**

- INIS: 1992-05-05; ETDE: 1977-03-04*  
*Objectionable or harmful levels of noise.*  
 BT1 pollution  
 RT noise  
 RT noise dosimeters  
 RT noise pollution abatement  
 RT noise pollution control

**NOISE POLLUTION ABATEMENT**

- INIS: 1992-05-05; ETDE: 1977-03-04*  
*Reduction of noise at its source.*  
 BT1 pollution abatement  
 RT noise  
 RT noise pollution  
 RT noise pollution control

**NOISE POLLUTION CONTROL**

- INIS: 1992-05-05; ETDE: 1977-03-04*  
*Reduction of noise after it has been produced by a source.*  
 \*BT1 pollution control  
 RT noise  
 RT noise pollution  
 RT noise pollution abatement  
 RT pollution control equipment

**NOISE THERMOMETERS**

- 1978-11-24  
*Operation based on the Nyquist theorem of thermal noise.*  
 \*BT1 in core instruments  
 \*BT1 thermometers  
 RT temperature measurement

**nok-1 reactor**

- Nordost Schweizerische Kraftwerke AG-1 reactor.*  
 USE beznau-1 reactor

**nok-2 reactor**

- Nordost Schweizerische Kraftwerke AG-2 reactor.*  
 USE beznau-2 reactor

**NOLEN-SCHIFFER ANOMALY**

- RT coulomb energy  
 RT isobaric analogs

**NOMOGRAMS**

- \*BT1 diagrams

**non-aqueous solvents**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE nonaqueous solvents

**non-canonical dimension**

- USE anomalous dimension

**non-central forces**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE noncentral forces

**non-destructive analysis**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE nondestructive analysis

**non-destructive testing**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE nondestructive testing

**NON-DISJUNCTION**

- UF nondisjunction  
 RT aneuploidy  
 RT cell division  
 RT genome mutations

**non-dispersive ion waves**

- USE ion acoustic waves

**NON-EQUILIBRIUM PLASMA**

- UF nonequilibrium plasma  
 BT1 plasma

- RT bifurcation  
 RT equilibrium plasma  
 RT limit cycle  
 RT tail electrons  
 RT tail ions

**NON-INDUCTIVE CURRENT DRIVE**

- INIS: 1987-06-29; ETDE: 1987-07-09*  
*Generation of a plasma current by a non-inductive technique.*

- NT1 ecr current drive  
 NT1 lower hybrid current drive  
 RT bootstrap current  
 RT current-drive heating  
 RT electric currents  
 RT plasma

**non lagrangian quantum field theory**

- 1977-11-21  
 USE axiomatic field theory

**non-leptonic decay**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE weak hadronic decay

**non-linear field theory**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE nonlinear problems  
 USE quantum field theory

**non-linear optics**

- INIS: 1986-03-04; ETDE: 2002-04-16*  
 USE nonlinear optics

**non-linear plasma instabilities**

- INIS: 1993-11-09; ETDE: 2002-04-16*  
 USE parametric instabilities

**non-linear problems**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE nonlinear problems

**non-linear programming**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE nonlinear programming

**non-linear systems**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE nonlinear problems

**non-local potential**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE nonlocal potential

**non-local quantum field theory**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE yukawa nonlocal theory

**non-measurable variables**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE hidden variables

**non-metals**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE nonmetals

**NON-PEPTIDE C-N HYDROLASES**

- INIS: 1986-12-03; ETDE: 1981-01-12*  
 Code number 3.5.  
 \*BT1 hydrolases  
 NT1 amidases  
 NT2 arginase  
 NT2 urease  
 NT1 amidinases

**non-proliferation**

- INIS: 1978-02-23; ETDE: 2002-04-16*  
 USE proliferation

**NON-PROLIFERATION POLICY**

- INIS: 1998-06-10; ETDE: 1979-09-06*  
 RT arms control  
 RT ctbt

- RT ctbto  
 RT government policies  
 RT non-proliferation treaty  
 RT nuclear fuels  
 RT nuclear materials diversion  
 RT nuclear weapons  
 RT nuclear weapons dismantlement  
 RT proliferation

**NON-PROLIFERATION TREATY**

- UF nonproliferation treaty  
 BT1 treaties  
 RT arms control  
 RT non-proliferation policy  
 RT nuclear materials possession  
 RT proliferation  
 RT safeguards

**non-radioactive waste disposal**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE nonradioactive waste disposal

**non-radioactive wastes**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE nonradioactive wastes

**non-uniform irradiation**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE nonuniform irradiation

**non-unitary representations**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE nonunitary representations

**NONANOIC ACID**

- UF nonylic acid  
 UF pelargonic acid  
 \*BT1 monocarboxylic acids

**NONAQUEOUS SOLVENTS**

- See also ORGANIC SOLVENTS.  
 UF non-aqueous solvents  
 BT1 solvents  
 NT1 organic solvents  
 NT2 cellosolves  
 NT2 solvesso  
 NT2 turpentine  
 RT solvation

**nonaxial nuclei**

- USE deformed nuclei

**nonbranded independent marketers**

- INIS: 2000-04-12; ETDE: 1979-09-28*  
 USE marketers

**noncanonical dimension**

- INIS: 1984-07-20; ETDE: 2002-04-16*  
 USE anomalous dimension

**NONCENTRAL FORCES**

- UF non-central forces  
 RT potentials  
 RT tensor mesons

**NONDESTRUCTIVE ANALYSIS**

- UF non-destructive analysis  
 UF nondestructive chemical analysis  
 BT1 chemical analysis  
 NT1 activation analysis  
 NT2 charged-particle activation analysis  
 NT2 neutron activation analysis  
 NT2 photon activation analysis  
 NT1 delayed neutron analysis  
 NT1 deuterium microprobe analysis  
 NT1 electron microprobe analysis  
 NT1 ion microprobe analysis  
 NT1 ion scattering analysis  
 NT1 nuclear reaction analysis  
 NT2 delayed neutron analysis  
 NT1 proton microprobe analysis  
 NT1 radiation absorption analysis

- NT1 radiation scattering analysis
- NT1 x-ray emission analysis
- NT2 pixe analysis
- NT2 x-ray fluorescence analysis

### **nondestructive chemical analysis**

INIS: 1993-11-09; ETDE: 2002-04-16  
USE nondestructive analysis

### **NONDESTRUCTIVE TESTING**

UF non-destructive testing

\*BT1 materials testing

NT1 acoustic testing

NT2 acoustic emission testing

NT2 ultrasonic testing

NT1 electrical testing

NT1 electromagnetic testing

NT2 eddy current testing

NT1 industrial radiography

NT2 beta radiography

NT2 gamma radiography

NT3 gamma fuel scanning

NT2 neutron radiography

NT2 proton radiography

NT2 x-ray radiography

NT1 liquid penetrant inspection

NT1 magnetic testing

NT1 radiation attenuation testing

NT1 thermal testing

NT2 frost tests

RT autoradiography

RT fuel scanning

RT in-service inspection

RT inspection

RT quality control

RT radiometric gages

### **nondisjunction**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE non-disjunction

### **nondispersive ion waves**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE ion acoustic waves

### **nonequilibrium plasma**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE non-equilibrium plasma

### **nonleptonic decay**

INIS: 1978-02-23; ETDE: 1978-05-01  
USE weak hadronic decay

### **nonlinear field theory**

INIS: 1977-11-21; ETDE: 2002-04-16  
USE nonlinear problems  
USE quantum field theory

### **NONLINEAR OPTICS**

INIS: 1986-03-04; ETDE: 1981-03-17  
*Study of the interaction of radiation with matter in which certain variables describing the response of the matter are not proportional to variables describing the radiation.*

UF non-linear optics

BT1 optics

RT frequency mixing

RT harmonic generation

RT nonlinear problems

### **nonlinear plasma instabilities**

USE parametric instabilities

### **NONLINEAR PROBLEMS**

UF non-linear field theory

UF non-linear problems

UF non-linear systems

UF nonlinear field theory

UF nonlinear systems

RT baecklund transformation

RT frequency mixing

RT harmonic generation

RT harmonics

RT limit cycle

RT mathematics

RT nonlinear optics

RT plasma disruption

RT plasma instability

RT quasilinear problems

RT reactor stability

### **NONLINEAR PROGRAMMING**

UF non-linear programming

BT1 calculation methods

RT dynamic programming

RT econometrics

RT linear programming

RT mathematical models

RT optimization

### **nonlinear systems**

USE nonlinear problems

### **NONLOCAL POTENTIAL**

UF non-local potential

BT1 potentials

RT locality

RT nuclear potential

RT pery-buck model

### **nonlocal quantum field theory**

INIS: 1977-11-21; ETDE: 2002-04-16  
USE yukawa nonlocal theory

### **NONLUMINOUS MATTER**

INIS: 1985-01-17; ETDE: 1985-03-12  
*Unseen mass in the Universe assumed from discrepancies in cosmological model values and observation.*

UF dark matter

UF unobserved matter

UF unseen matter

BT1 matter

RT galaxies

RT general relativity theory

RT intergalactic space

RT universe

### **nonmeasurable variables**

1985-11-18

(Prior to December 1985 this was a valid descriptor.)

USE hidden variables

### **NONMETALS**

UF non-metals

BT1 elements

NT1 carbon

NT2 activated carbon

NT2 carbon black

NT2 carbynes

NT2 diamonds

NT2 fullerenes

NT2 graphite

NT2 pyrolytic carbon

NT1 halogens

NT2 astatine

NT2 bromine

NT2 chlorine

NT2 fluorine

NT2 iodine

NT1 hydrogen

NT1 nitrogen

NT1 oxygen

NT1 phosphorus

NT1 rare gases

NT2 argon

NT2 helium

NT2 krypton

NT2 neon

NT2 radon

NT2 xenon

NT1 sulfur

RT semimetals

### **nonproliferation**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE proliferation

### **nonproliferation treaty**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE non-proliferation treaty

### **NONRADIOACTIVE WASTE**

#### **DISPOSAL**

ETDE: 1991-01-15

(Prior to April 1977 this was a valid term.)

UF non-radioactive waste disposal

\*BT1 nonradioactive waste management

\*BT1 waste disposal

RT chemical effluents

RT waste disposal acts

### **NONRADIOACTIVE WASTE**

#### **MANAGEMENT**

INIS: 1990-12-07; ETDE: 1991-01-15

\*BT1 waste management

NT1 nonradioactive waste disposal

RT nonradioactive wastes

### **NONRADIOACTIVE WASTES**

ETDE: 1991-01-15

(Prior to April 1977 this was a valid term.)

UF non-radioactive wastes

BT1 wastes

NT1 chemical wastes

NT2 chemical effluents

RT hazardous materials

RT nonradioactive waste management

### **NONSPECIFIC PEPTIDASES**

INIS: 1990-12-07; ETDE: 1981-01-12

(Prior to December 1990, this concept was indexed by NONSPECIFIC PROTEINASES.)

UF nonspecific proteinases

\*BT1 peptide hydrolases

NT1 renin

NT1 urokinase

### **nonspecific proteinases**

INIS: 1990-12-07; ETDE: 2002-04-16

(Prior to December 1990, this was a valid descriptor.)

USE nonspecific peptidases

### **NONUNIFORM IRRADIATION**

UF non-uniform irradiation

BT1 irradiation

RT critical organs

RT isodose curves

RT radionuclide kinetics

RT spatial dose distributions

### **NONUNITARY REPRESENTATIONS**

UF non-unitary representations

UF representations (nonunitary)

RT group theory

RT irreducible representations

RT symmetry groups

RT unitarity

### **nonviscous flow**

INIS: 1986-03-04; ETDE: 2002-04-16  
USE ideal flow

### **nonyl radicals**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE alkyl radicals

### **nonylic acid**

USE nonanoic acid



**NORA REACTOR**

- UF* norwegian research reactor nora  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
*RT* enriched uranium reactors  
*RT* natural uranium reactors

**NORADRENALINE**

- UF* norepinephrine  
 \*BT1 adrenal hormones  
 \*BT1 cardiotonics  
 \*BT1 neuroregulators  
 \*BT1 sympathomimetics

**NORBORNADIENE**

- INIS: 2000-04-12; ETDE: 1977-12-22*  
 \*BT1 cycloalkenes

**NORD COMPUTERS**

- INIS: 1976-08-17; ETDE: 1976-11-01*  
 BT1 computers

**nordheim equation**

- USE inhour equation

**NORDHEIM-SCALETTER METHOD**

- RT* control rod worths

**nordostschweizerische kraftwerk-1 reaktor**

- INIS: 1984-06-21; ETDE: 2002-04-16*  
 USE beznau-1 reactor

**nordostschweizerische kraftwerk-2 reaktor**

- INIS: 1984-06-21; ETDE: 2002-04-16*  
 USE beznau-2 reactor

**NORDSTRANDITE**

- INIS: 2000-04-12; ETDE: 1975-10-01*  
 \*BT1 oxide minerals  
*RT* aluminium hydroxides

**norepinephrine**

- INIS: 2000-04-12; ETDE: 1981-04-20*  
 USE noradrenaline

**norilsk research reactor rg-1m**

- INIS: 1984-06-21; ETDE: 2002-04-16*  
 USE rg-1m reactor

**NORMAL-MODE ANALYSIS**

- UF* analysis (normal-mode)  
*RT* fourier analysis  
*RT* plasma waves

**NORTH AMERICA**

- NT1 canada  
 NT2 alberta  
 NT2 british columbia  
 NT2 manitoba  
 NT2 new brunswick  
 NT2 newfoundland  
 NT2 northwest territories  
 NT2 nova scotia  
 NT2 nunavut  
 NT2 ontario  
 NT3 chalk river  
 NT3 deep river  
 NT3 elliot lake  
 NT2 prince edward island  
 NT2 quebec  
 NT2 saskatchewan  
 NT2 yukon territory  
 NT1 mexico  
 NT1 usa  
 NT2 alabama  
 NT2 alaska  
 NT2 american samoa

- NT2 arizona  
 NT2 arkansas  
 NT2 california  
 NT3 brawley geothermal field  
 NT3 coso hot springs  
 NT3 los angeles  
 NT2 colorado  
 NT3 mahogany zone  
 NT3 sand wash basin  
 NT2 connecticut  
 NT2 delaware  
 NT2 florida  
 NT3 cape kennedy  
 NT2 georgia  
 NT3 atlanta  
 NT2 great basin  
 NT2 hawaii  
 NT2 idaho  
 NT2 illinois  
 NT3 chicago  
 NT2 indiana  
 NT2 iowa  
 NT2 kansas  
 NT2 kentucky  
 NT2 louisiana  
 NT2 maine  
 NT2 maryland  
 NT2 massachusetts  
 NT2 michigan  
 NT2 minnesota  
 NT2 mississippi  
 NT2 missouri  
 NT2 montana  
 NT3 powder river basin  
 NT2 nebraska  
 NT2 nevada  
 NT3 steamboat springs  
 NT3 tonopah test range  
 NT2 new hampshire  
 NT2 new jersey  
 NT2 new mexico  
 NT3 los alamos  
 NT2 new york  
 NT3 new york city  
 NT2 north carolina  
 NT2 north dakota  
 NT2 ohio  
 NT3 cleveland  
 NT2 oklahoma  
 NT2 oregon  
 NT3 mt hood  
 NT2 pennsylvania  
 NT3 pittsburgh  
 NT2 puerto rico  
 NT2 rhode island  
 NT2 south carolina  
 NT2 south dakota  
 NT3 table mountain area  
 NT2 tennessee  
 NT3 chattanooga  
 NT3 oak ridge  
 NT2 texas  
 NT2 us east coast  
 NT2 us gulf coast  
 NT2 us west coast  
 NT2 utah  
 NT3 roosevelt hot springs  
 NT2 vermont  
 NT2 virgin islands  
 NT2 virginia  
 NT2 washington  
 NT3 richland  
 NT2 washington dc  
 NT2 west virginia  
 NT2 wisconsin  
 NT2 wyoming  
 NT3 powder river basin  
 NT3 rock springs sites  
 NT3 washakie basin

**NORTH ANNA-1 REACTOR**

- Virginia Electric and Power Co., Mineral, Virginia, USA.*  
*UF* mineral virginia north anna-1 reactor  
 \*BT1 pwr type reactors

**NORTH ANNA-2 REACTOR**

- Virginia Electric and Power Co., Mineral, Virginia, USA.*  
*UF* mineral virginia north anna-2 reactor  
 \*BT1 pwr type reactors

**NORTH ANNA-3 REACTOR**

- Virginia Electric and Power Co., Mineral, Virginia, USA. Canceled in 1982 before construction began.*  
*UF* mineral virginia north anna-3 reactor  
 \*BT1 pwr type reactors

**NORTH ANNA-4 REACTOR**

- Virginia Electric and Power Co., Mineral, Virginia, USA. Canceled in 1980 before construction began.*  
*UF* mineral virginia north anna-4 reactor  
 \*BT1 pwr type reactors

**north atlantic region**

- INIS: 2000-04-12; ETDE: 1978-07-06*  
 (Prior to June 1982, this was a valid ETDE descriptor.)  
 SEE usa

**north atlantic treaty organization**

- INIS: 1993-11-09; ETDE: 2002-04-16*  
 USE nato

**NORTH CAROLINA**

- 1997-06-17  
 \*BT1 usa  
*RT* cape fear river  
*RT* onslow bay  
*RT* us east coast

**north carolina pulstar reactor**

- USE pulstar-raleigh reactor

**north carolina state college research reactor-1**

- 1993-11-09  
 USE ncsr-1 reactor

**NORTH COAST-1 REACTOR**

- Puerto Rico Water Resources Authority, Arecibo, Puerto Rico, USA. Formerly the Aguirre-1 Reactor, relocated and renamed. Canceled in 1978 before construction began.*  
*UF* aguirre-1 reactor  
 \*BT1 pwr type reactors  
*RT* aguirre reactor

**NORTH DAKOTA**

- \*BT1 usa  
*RT* missouri river  
*RT* williston basin

**NORTH KOREA**

- UF* korea (north)  
 BT1 asia  
 BT1 developing countries  
*RT* centrally planned economies

**NORTH PLATTE RIVER**

- INIS: 2000-04-12; ETDE: 1977-10-20*  
 \*BT1 rivers  
*RT* north platte river basin

**NORTH PLATTE RIVER BASIN**

- INIS: 2000-04-12; ETDE: 1977-10-20*  
 BT1 watersheds  
*RT* colorado  
*RT* nebraska  
*RT* north platte river

RT wyoming

## NORTH SEA

\*BT1 atlantic ocean  
NT1 wadden sea

## NORTH-SOUTH ASYMMETRY

*For global aspects only.*

BT1 asymmetry  
RT cosmic radiation  
RT geographical variations

## NORTH STAR PROJECT

*INIS: 2000-04-12; ETDE: 1976-10-13  
Proposal to ship natural gas from North  
Central Siberia to U.S. East Coast.*  
RT international agreements  
RT liquefied natural gas

## north yemen

*INIS: 2000-04-12; ETDE: 1981-05-18*  
USE yemen

## NORTHERN HEMISPHERE

*INIS: 1999-04-28; ETDE: 1980-09-22  
Both for the surface and the celestial  
hemisphere.*  
\*BT1 earth planet  
RT southern hemisphere

## northern ireland

USE united kingdom

## northern rhodesia

USE zambia

## northern states monticello reactor

USE monticello reactor

## NORTHERN TERRITORY

\*BT1 australia  
RT jabiluka deposit  
RT koongarra deposit  
RT nabarlek deposit  
RT ranger deposit  
RT south alligator deposit

## NORTHWEST TERRITORIES

*1996-07-08  
(Prior to July 1996 PORT RADIUM was a  
valid ETDE descriptor.)*  
UF port radium  
\*BT1 canada

## NORWAY

BT1 developed countries  
\*BT1 scandinavia  
RT lapps  
RT oecd

## NORWEGIAN ORGANIZATIONS

BT1 national organizations

## norwegian research reactor nora

*1993-11-09*  
USE nora reactor

## nos. 4, 5, and 6 fuel oils

*INIS: 2000-04-12; ETDE: 1976-01-23*  
USE residual fuels

## nos. 5 and 6 burner oils

*INIS: 2000-04-12; ETDE: 1976-01-23*  
USE residual fuels

## NOSE

\*BT1 face  
BT1 respiratory system  
RT sense organs

## nose cones

*2000-04-12  
(Prior to March 1997 this was a valid ETDE  
descriptor.)*  
SEE space vehicles

## NOTCHES

RT cracks  
RT impact tests

## notice of probable violation

*INIS: 2000-04-12; ETDE: 1979-12-10  
(Prior to March 1997 this was a valid ETDE  
descriptor.)*  
USE violations

## NOTICES

*INIS: 2000-04-12; ETDE: 1979-12-10  
(Prior to March 1997 this was a valid ETDE  
descriptor.)*  
SEE administrative procedures

## NOTIFICATION PROCEDURES

*INIS: 1976-12-08; ETDE: 1990-11-20  
Procedures to be followed by a nuclear  
operator in compliance with his legal  
obligation to notify certain actions or  
incidents to the authorities.*  
BT1 administrative procedures  
RT nuclear operators

## noto-1 reactor

*INIS: 1989-09-14; ETDE: 1989-10-16*  
USE shika-1 reactor

## NOUGAT OPERATION

*INIS: 2000-04-12; ETDE: 1979-11-23*  
\*BT1 nuclear explosions  
\*BT1 underground explosions  
RT contained explosions

## NOVA FACILITY

*INIS: 1981-08-31; ETDE: 1978-04-28  
Upgrade of SHIVA FACILITY at LLL for laser  
fusion experiments.*  
RT laser fusion reactors  
RT lawrence livermore laboratory  
RT lawrence livermore national  
laboratory  
RT neodymium lasers  
RT novette facility  
RT shiva facility

## NOVA MODEL

\*BT1 particle models

## NOVA SCOTIA

\*BT1 canada

## NOVACEKITE

*2000-04-12*  
\*BT1 oxide minerals  
\*BT1 uranium minerals  
RT arsenic oxides  
RT magnesium oxides  
RT uranium oxides

## NOVAE

\*BT1 eruptive variable stars  
RT supernovae

## novain

USE carnitine

## NOVAYA ZEMLYA

*INIS: 1995-11-22; ETDE: 1996-09-09*  
BT1 islands  
\*BT1 russian federation  
RT arctic regions  
RT nuclear explosions  
RT radioactive waste disposal

## NOVETTE FACILITY

*INIS: 1985-10-23; ETDE: 1983-11-09  
Two-beam Nd glass laser at LLNL operating  
at fundamental or harmonic wavelengths used  
for target irradiation experiments.*  
RT lawrence livermore national  
laboratory  
RT neodymium lasers  
RT nova facility  
RT shiva facility

## novocaine

USE procaine

## NOVOVORONEZH-1 REACTOR

*(Prior to June 2003 this reactor was indexed  
with WWER-1 REACTOR.)*  
UF wwer-1 reactor  
\*BT1 wwer type reactors

## NOVOVORONEZH-2 REACTOR

*(Prior to June 2003 this reactor was indexed  
with WWER-2 REACTOR.)*  
UF wwer-2 reactor  
\*BT1 wwer type reactors

## NOVOVORONEZH-3 REACTOR

*(Prior to June 2003 this reactor was indexed  
with WWER-3 REACTOR.)*  
UF wwer-3 reactor  
\*BT1 wwer type reactors

## NOVOVORONEZH-4 REACTOR

*(Prior to June 2003 this reactor was indexed  
with WWER-4 REACTOR.)*  
UF wwer-4 reactor  
\*BT1 wwer type reactors

## NOVOVORONEZH-5 REACTOR

*(Prior to June 2003 this reactor was indexed  
with WWER-5 REACTOR.)*  
UF wwer-5 reactor  
\*BT1 wwer type reactors

## NOXSO PROCESS

*INIS: 1994-07-01; ETDE: 1984-06-29  
A dry, sorbent regenerable system capable of  
removing both sulfur dioxide and NOx from  
flue gas generated by coal-fired boilers.*  
\*BT1 combined soxnox processes

## NOZZLES

RT aerosol generators  
RT flowmeters  
RT fuel injection systems  
RT jet drills  
RT jets  
RT orifices  
RT pipe fittings  
RT separation nozzle method

## npd-2 reactor

*INIS: 2000-04-12; ETDE: 1980-07-23*  
USE npd reactor

## NPD REACTOR

*Rolphoton, Ontario, Canada.*  
UF npd-2 reactor  
UF npd2 rolphoton reactor  
UF nuclear power demonstration  
reactor-2 canada  
UF nuclear power demonstration reactor  
canada  
UF rolphoton npd-2 reactor  
\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

## npd2 rolphoton reactor

*2000-04-12*  
USE npd reactor

**npr reactor**

USE n-reactor

**nra**

2002-11-25

USE nuclear reaction analysis

**nrel**

1994-06-13

USE national renewable energy laboratory

**NRL CYCLOTRON**

UF naval research laboratory cyclotron

UF us naval research laboratory cyclotron

\*BT1 isochronous cyclotrons

**NRL LINAC**

UF naval research laboratory linac

UF us naval research laboratory linac

\*BT1 linear accelerators

**NRPB**

INIS: 1979-12-20; ETDE: 1980-01-24

National Radiological Protection Board.

UF national radiological protection board

\*BT1 united kingdom organizations

**nrrts**

INIS: 1994-08-22; ETDE: 1975-12-17

USE ineel

**nrrts-etr reactor**

USE etr reactor

**nrrts-lptf reactor**

USE lptf reactor

**nru canada reactor**

USE nru reactor

**NRU REACTOR**

AECL, Chalk River Nuclear Labs., Ontario, Canada.

UF canadian nru reactor

UF nru canada reactor

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

**NRX-A1 REACTOR**

2000-04-12

LASL, Los Alamos, New Mexico, USA.

UF nerva nrx-a1 reactor

\*BT1 experimental reactors

\*BT1 space propulsion reactors

**NRX-A2 REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF nerva nrx-a2 reactor

\*BT1 experimental reactors

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**NRX-A3 REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF nerva nrx-a3 reactor

\*BT1 experimental reactors

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**NRX-A4-EST REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF nerva nrx-a4 engine system test reactor

\*BT1 experimental reactors

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**NRX-A5 REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF nerva nrx-a5 reactor

\*BT1 experimental reactors

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**NRX-A6 REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF nerva nrx-a6 reactor

\*BT1 experimental reactors

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**NRX-A7 REACTOR**

2000-04-12

LASL, Los Alamos, New Mexico, USA.

UF nerva nrx-a7 reactor

\*BT1 experimental reactors

\*BT1 space propulsion reactors

RT hydrogen cooled reactors

**NRX REACTOR**

AECL, Chalk River Nuclear Labs., Ontario, Canada.

UF canada nrx research reactor

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 materials testing reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

**ns arktika**

INIS: 1984-08-27; ETDE: 1994-08-10

(Prior to the name change in November 1982 this was a valid descriptor, and older material is so indexed.)

USE ns leonid brezhnev

**NS ENRICO FERMI**

2000-04-12

\*BT1 nuclear ships

**NS LENIN**

UF lenin (nuclear ship)

\*BT1 nuclear ships

RT lenin reactor

**NS LEONID BREZHNEV**

INIS: 1984-08-27; ETDE: 1994-08-10

(Prior to November 1982 known as NS ARKTIKA.)

UF arktika (nuclear ship)

UF leonid brezhnev (nuclear ship)

UF ns arktika

\*BT1 nuclear ships

RT leonid brezhnev reactor

**NS MUTSU**

UF mutsu (nuclear ship)

\*BT1 nuclear merchant ships

RT mutsu reactor

**NS OTTO HAHN**

UF otto hahn (nuclear ship)

\*BT1 nuclear merchant ships

RT otto hahn reactor

**NS SAVANNAH**

UF savannah (nuclear ship)

\*BT1 nuclear merchant ships

RT savannah reactor

**NS SIBIR**

INIS: 1985-09-09; ETDE: 1985-10-10

UF sibir (nuclear ship)

\*BT1 nuclear ships

RT sibir reactor

**NSCR REACTOR**

Texas A and M Univ., College Station, Texas, USA.

UF college station texas training reactor

UF nuclear science center reactor texas

UF texas college station training reactor

\*BT1 pool type reactors

\*BT1 training reactors

\*BT1 triga type reactors

**NSF-RFP REACTOR**

Rockwell International, Rocky Flats Plant, Golden, Colorado, USA.

UF nuclear safety facility-rfp reactor

UF rocky flats plant nuclear safety facility

\*BT1 zero power reactors

**NSLS**

INIS: 1979-09-18; ETDE: 1979-04-11

UF national synchrotron light source

\*BT1 synchrotron radiation sources

RT light sources

RT synchrotrons

RT x-ray sources

**nspp**

USE nuclear safety pilot plant

**NSRR REACTOR**

JAERI, Tokai, Ibaraki, Japan.

UF nuclear safety research reactor (japan)

\*BT1 enriched uranium reactors

\*BT1 hydride moderated reactors

\*BT1 mixed spectrum reactors

\*BT1 pulsed reactors

\*BT1 research reactors

\*BT1 solid homogeneous reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**NSTX DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03

National Spherical Torus Experiment,

Princeton Plasma Physics Laboratory, USA.

\*BT1 spheromak devices

**NTA**

UF nitriilotriacetic acid

\*BT1 amino acids

BT1 chelating agents

**NTR REACTOR**

General Electric Company, Vallecitos Nuclear Center, Pleasanton, California, USA.

UF general electric nuclear test reactor

UF nuclear test reactor general electric company

UF pleasanton usa ntr reactor

\*BT1 enriched uranium reactors

\*BT1 graphite moderated reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**NTU PROCESS**

2000-04-12

Air is admitted at top of retort, supporting combustion which moves downward through oil shale bed. When fire front reaches bottom, operation is halted; spent shale is dumped. A batch process, it is not suitable for retorting on commercial basis.

RT oil shales

RT retorting

**nuclear accidents**

- SEE radiation accidents  
SEE reactor accidents

**nuclear acoustic resonance**

- USE acoustic nmr

**NUCLEAR ALIGNMENT**

- RT oriented nuclei  
RT spin orientation

**nuclear and radiation safety federal authority of russia**

1997-08-08

- USE gosatomnadzor rossii

**nuclear attacks**

- USE nuclear weapons

**NUCLEAR CASCADES**

- UF cascades (nuclear)  
UF intranuclear cascades  
BT1 energy-level transitions  
NT1 gamma cascades  
RT energy levels

**nuclear charge**

- USE atomic number

**NUCLEAR CHEMISTRY**

1999-05-04

*Study of nuclei and nuclear reactions using chemical methods.*

(Prior to March 1986 RADIOCHEMISTRY was used for this concept.)

- BT1 chemistry  
RT nuclear physics  
RT radiochemistry

**nuclear contestation**

- USE public relations

**nuclear controversy**

*This concept has also been indexed by the combination HAZARDS + HUMAN POPULATIONS.*

(Prior to January 1983 PUBLIC RELATIONS was used for this concept.)

- USE nuclear power  
USE public opinion

**NUCLEAR CORES**

- UF core polarization (nuclei)  
UF cores (nuclear)  
RT nuclear structure

**NUCLEAR DAMAGE**

INIS: 1976-12-08; ETDE: 1989-11-03

*All physical or material damage caused by a nuclear incident, i.e. resulting from the radioactive or other hazardous properties of nuclear materials.*

- UF damage (nuclear)  
RT accidents  
RT damage  
RT vcoclnd

**nuclear damage, conv. on supplementary compensation for**

2000-10-18

- USE cscnd

**nuclear damage, vienna civil liability convention**

INIS: 1984-06-21; ETDE: 2002-04-17

- USE vcoclnd

**NUCLEAR DATA COLLECTIONS**

*Use only for items about nuclear data collections, not for items which contain nuclear data.*

- UF endf

UF evaluated nuclear data file

RT cinda

RT compiled data

RT data base management

RT data compilation

RT evaluated data

RT information systems

RT international nuclear data committee

RT libraries

RT us nuclear data network

**NUCLEAR DECAY**

INIS: 1978-02-23; ETDE: 1988-10-12

BT1 decay

NT1 alpha decay

NT1 beta decay

NT2 beta-minus decay

NT3 double beta decay

NT2 beta-plus decay

NT2 electron capture decay

NT3 k capture

NT3 l capture

NT3 m capture

NT1 gamma decay

NT1 heavy ion emission decay

NT2 carbon 12 emission decay

NT2 carbon 14 emission decay

NT2 carbon 16 emission decay

NT2 magnesium 28 emission decay

NT2 magnesium 30 emission decay

NT2 neon 24 emission decay

NT2 oxygen 16 emission decay

NT2 silicon 32 emission decay

NT2 silicon 34 emission decay

NT1 internal conversion

NT2 k conversion

NT2 l conversion

NT2 m conversion

NT1 proton-emission decay

NT1 spontaneous fission

**NUCLEAR DEFORMATION**

*For the deformation in the excited state of nuclei which are not deformed in the ground state.*

BT1 deformation

RT deformed nuclei

**nuclear density**

INIS: 1984-04-04; ETDE: 2002-04-17

*Coordinate descriptor below with NEUTRON DENSITY and/or PROTON DENSITY.*

USE nuclear matter

**NUCLEAR DETERRENCE**

INIS: 1994-09-29; ETDE: 1984-05-08

*Nuclear adversaries overbuilding both warheads and delivery capacity, with a standoff ensuing because of the retaliatory potential of the opponent deterring the would-be aggressor.*

RT national security

RT nuclear weapons

RT proliferation

**NUCLEAR DISARMAMENT**

INIS: 1998-06-10; ETDE: 1980-07-23

SF disarmament

RT arms control

RT ctbt

RT ctbto

RT nuclear freeze

RT nuclear weapons

RT nuclear weapons dismantlement

RT safeguards

RT salt talks

**NUCLEAR ELECTRIC MOMENTS**

UF nuclear moments (electric)

BT1 electric moments

BT1 nuclear properties

RT electric dipole moments

RT nuclear quadrupole resonance

RT perturbed angular correlation

RT quadrupole moments

**NUCLEAR EMULSIONS**

RT autoradiography

RT images

RT latent images

RT photographic film detectors

RT photographic film dosimeters

RT photographic films

RT radiator counters

**NUCLEAR ENERGY**

*Use only in the general sense, such as for energy production or the comparison of different sources of energy.*

UF atomic energy

BT1 energy

RT nuclear power plants

**nuclear energy agency**

2000-04-12

- USE nea

**nuclear energy agency (oecd)**

INIS: 1977-04-07; ETDE: 2002-04-17

- USE nea

**NUCLEAR ENGINEERING**

BT1 engineering

RT nuclear industry

RT reactor technology

RT reactors

RT technology transfer

**nuclear engineering test reactor**

2000-04-12

- USE netr reactor

**nuclear evaporation**

- USE evaporation model

**NUCLEAR EXCAVATION**

BT1 excavation

RT cratering explosions

RT nuclear explosions

RT plowshare project

RT surface explosions

RT underground explosions

RT underwater explosions

**NUCLEAR EXPLOSION DETECTION**

1998-06-10

UF detection (nuclear explosions)

BT1 detection

RT atmospheric explosions

RT ctbt

RT in-country detection

RT nuclear explosions

RT seismic detection

RT underground explosions

**NUCLEAR EXPLOSIONS**

1998-06-10

*Specifically named single nuclear explosions are listed by name and the word EVENT, e.g., BOXCAR EVENT. All projects involving nuclear explosions are listed by the project name and the word PROJECT, e.g., PLOWSHARE PROJECT.*

UF agrini event

UF almendro event

UF annie event

UF argus event

UF atomic explosions

UF baneberry event

UF benham event

UF bowline operation

UF boxcar event

UF bronco event  
 UF buffalo project  
 UF cabriolet event  
 UF calabash event  
 UF cannikin event  
 UF carpetbag event  
 UF danny boy event  
 UF dining car event  
 UF emery operation  
 UF events (nuclear explosions)  
 UF faultless event  
 UF flintlock operation  
 UF fulcrum operation  
 UF fusileer operation  
 UF greeley event  
 UF halfbeak event  
 UF handcar event  
 UF handley event  
 UF harry event  
 UF holly event  
 UF husky ace event  
 UF hutch event  
 UF ivy project  
 UF jangle project  
 UF jorum event  
 UF latir event  
 UF marvel event  
 UF mighty epic event  
 UF milrow event  
 UF miniata event  
 UF monique event  
 UF nuclear weapon tests  
 UF orange event  
 UF pin stripe event  
 UF pokhran event  
 UF portmanteau event  
 UF project buffalo  
 UF project ivy  
 UF project jangle  
 UF redmud event  
 UF romeo event  
 UF rulison event  
 UF scotch event  
 UF smoky event  
 UF starfish event  
 UF swordfish event  
 UF teak event  
 UF tewa event  
 UF tybo event  
 UF wagon wheel event  
 UF yankee event  
 UF zuni event  
 BT1 explosions  
 NT1 anvil project  
 NT1 arbor project  
 NT1 bedrock project  
 NT1 castle project  
 NT1 crossroads project  
 NT1 crosstie operation  
 NT2 gasbuggy event  
 NT1 dominic project  
 NT1 greenhouse project  
 NT1 grommet operation  
 NT1 hardtack project  
 NT1 latchkey operation  
 NT1 mandrel operation  
 NT1 nougat operation  
 NT1 plumbbob project  
 NT1 praetorian project  
 NT1 ranger project  
 NT1 sandstone project  
 NT1 sun beam operation  
 NT1 thermonuclear explosions  
 NT1 toggle operation  
 NT2 rio blanco event  
 NT1 trinity event  
 NT1 whetstone operation  
 RT aleutian islands  
 RT artificial radiation belts

RT atmospheric explosions  
 RT azgir test site  
 RT cavities  
 RT civil defense  
 RT contained explosions  
 RT cratering explosions  
 RT ctbt  
 RT ctbto  
 RT electromagnetic pulses  
 RT excavation  
 RT explosive fracturing  
 RT explosive stimulation  
 RT fallout  
 RT fission  
 RT fission products  
 RT global fallout  
 RT ground motion  
 RT hiroshima  
 RT in-country detection  
 RT little boy  
 RT marshall islands  
 RT nagasaki  
 RT nevada test site  
 RT novaya zemlya  
 RT nuclear excavation  
 RT nuclear explosion detection  
 RT nuclear fireballs  
 RT nuclear test sites  
 RT nuclear weapons  
 RT nuclear winter  
 RT plowshare project  
 RT radioactive clouds  
 RT redwing project  
 RT seismic effects  
 RT seismic events  
 RT semipalatinsk test site  
 RT shelters  
 RT shock waves  
 RT surface explosions  
 RT thunderbird project  
 RT underground explosions  
 RT underwater explosions  
 RT upshot project  
 RT vela project

**NUCLEAR EXPLOSIVES**

BT1 explosives

**NUCLEAR FACILITIES**

1996-07-18

(From August 1976 till March 1997

HUMECA URANIUM MILL was a valid

ETDE descriptor.)

UF facilities (nuclear)  
 UF humeca uranium mill  
 UF installation sites  
 UF nuclear installation sites  
 UF sites (nuclear installations)  
 NT1 feed materials plants  
 NT2 feed materials production center  
 NT2 west valley uf6 facility  
 NT1 fuel cycle centers  
 NT1 fuel fabrication plants  
 NT2 cimarron plutonium production plant  
 NT2 cimarron uranium fuel plant  
 NT2 exxon fuel fabrication facility  
 NT2 mixed oxide fuel fabrication plants  
 NT2 westinghouse recycle fuels plant  
 NT1 fuel reprocessing plants  
 NT2 barnwell fuel processing plant  
 NT2 cea la hague  
 NT2 cogema la hague  
 NT2 hef  
 NT2 idaho chemical processing plant  
 NT2 midwest fuel recovery plant  
 NT2 nuclear fuel recovery and recycling center  
 NT2 rokkasho reprocessing plant  
 NT2 sellafeld reprocessing plant

NT2 tokai reprocessing plant  
 NT2 wackersdorf reprocessing plant  
 NT2 wak  
 NT2 west valley processing plant  
 NT2 westinghouse recycle fuels plant  
 NT1 hot labs  
 NT1 irradiation plants  
 NT2 isomed  
 NT1 isotope separation plants  
 NT2 centrifuge enrichment plants  
 NT3 portsmouth centrifuge enrichment plant  
 NT2 gaseous diffusion plants  
 NT3 cogema pierrelatte  
 NT3 orgdp  
 NT3 paducah plant  
 NT3 portsmouth gaseous diffusion plant  
 NT2 heavy water plants  
 NT2 tritium extraction plants  
 NT1 kyshtym plant  
 NT1 mayak plant  
 NT1 nuclear power plants  
 NT2 bopssar standard plant  
 NT2 ebasco standard plant  
 NT2 gibbsar standard plant  
 NT2 offshore nuclear power plants  
 NT2 swessa standard plant  
 NT2 underground nuclear stations  
 NT1 radioactive waste facilities  
 NT2 asse salt mine  
 NT2 aube plant  
 NT2 bohunice radioactive waste processing center  
 NT2 gorleben salt dome  
 NT2 hades underground research facility  
 NT2 konrad ore mine  
 NT2 manche plant  
 NT2 mochovce radioactive waste repository  
 NT2 morsleben salt mine  
 NT2 pamela plant  
 NT2 vaalputs radioactive waste disposal facility  
 NT2 wipp  
 NT1 surplus nuclear facilities  
 RT biointrusion  
 RT controlled areas  
 RT distributed structures  
 RT energy facilities  
 RT external zones  
 RT human intrusion  
 RT laboratories  
 RT maintenance facilities  
 RT nuclear parks  
 RT public anxiety  
 RT site approvals  
 RT storage facilities  
 RT test facilities  
 RT underground facilities

**nuclear ferromagnetism**

INIS: 1985-03-19; ETDE: 2002-04-17

Ordering of nuclear spins occurring when the temperature is lowered to the microkelvin region.

USE ferromagnetism  
 USE nuclear magnetism**NUCLEAR FIREBALL MODEL**

INIS: 1978-09-28; ETDE: 1978-10-19

A nuclear reaction model for the total disintegration of the two nuclei in relativistic heavy ion reactions.

UF firestreak model

\*BT1 nuclear models

RT evaporation model

RT heavy ion reactions

RT inclusive interactions

RT quasi-fission

RT spallation

## NUCLEAR FIREBALLS

1975-08-22

UF fireballs (nuclear)

SF fireballs

RT nuclear explosions

## NUCLEAR FORCES

NT1 wigner force

RT binding energy

RT mass defect

RT nuclear potential

RT potentials

RT tensor forces

## NUCLEAR FRAGMENTATION

INIS: 1995-09-08; ETDE: 1989-06-23

(Until January 1986, this was a forbidden term and this concept was indexed by SPALLATION.)

BT1 nuclear reactions

RT deep inelastic heavy ion reactions

RT fission

RT incomplete fusion reactions

RT nuclear fragments

RT spallation

## NUCLEAR FRAGMENTS

INIS: 1978-11-24; ETDE: 1977-09-19

Nuclear reaction products.

UF fragments (nuclear)

NT1 anomalous

NT1 fission fragments

NT1 hypernuclei

NT1 spallation fragments

RT fission

RT nuclear fragmentation

RT nuclear reaction yield

RT spallation

## NUCLEAR FREEZE

INIS: 1998-06-10; ETDE: 1987-07-22

A mutual freeze on the testing, production, and deployment of nuclear weapons and of missiles and new aircraft designed primarily to deliver nuclear weapons.

RT arms control

RT ctbt

RT ctbto

RT international agreements

RT nuclear disarmament

## nuclear fuel centers

INIS: 1979-02-21; ETDE: 2002-04-17

USE fuel cycle centers

## NUCLEAR FUEL CONVERSION

Conversion of a fertile substance into a fissile substance.

UF conversion (nuclear fuel)

NT1 breeding

RT conversion ratio

RT fertile materials

## nuclear fuel elements

USE fuel elements

## NUCLEAR FUEL RECOVERY AND RECYCLING CENTER

INIS: 1990-12-15; ETDE: 1976-09-14

EXXON NUCLEAR FACILITY ROANE COUNTY, Tennessee, USA.

(Prior to December 1990, this concept was indexed by EXXON RECOVERY AND RECYCLE PLA.)

UF exxon recovery and recycle plant

SF exxon nuclear facility

\*BT1 fuel reprocessing plants

RT tennessee

## NUCLEAR FUELS

UF fuels (nuclear)

UF reactor fuels

UF reactor fuels (fission)

BT1 energy sources

BT1 fuels

\*BT1 reactor materials

NT1 alloy nuclear fuels

NT2 uranium-molybdenum fuels

NT1 denatured fuel

NT1 dispersion nuclear fuels

NT1 fuel solutions

NT1 liquid metal fuels

NT1 mixed carbide fuels

NT1 mixed nitride fuels

NT1 mixed oxide fuels

NT1 molten salt fuels

NT1 spent fuels

RT accelerator breeders

RT burnup

RT fertile materials

RT fissile materials

RT fissium

RT fuel-cladding interactions

RT fuel-coolant interactions

RT fuel cycle

RT fuel densification

RT fuel elements

RT fuel integrity

RT fuel particles

RT fuel pellets

RT fuel washers

RT gas fuels

RT non-proliferation policy

RT nuclear materials management

RT plutonium

RT reactors

RT thorium cycle

RT uranium

## NUCLEAR FURNACE REACTOR

LASL, Los Alamos, New Mexico, USA.

\*BT1 beryllium moderated reactors

\*BT1 enriched uranium reactors

\*BT1 research and test reactors

\*BT1 tank type reactors

\*BT1 water moderated reactors

## NUCLEAR HALOS

1995-07-06

UF halo states

UF neutron halos

UF proton halos

RT nuclear potential

RT nuclear structure

## NUCLEAR INDUSTRY

BT1 industry

RT construction

RT fuel fabrication plants

RT fuel reprocessing plants

RT gaseous diffusion plants

RT nuclear engineering

RT nuclear parks

RT usur

## nuclear installation sites

INIS: 1976-12-08; ETDE: 2002-04-17

If appropriate use one of the specific types of facilities.

USE nuclear facilities

## nuclear installations inspectorate

INIS: 1993-11-09; ETDE: 2002-04-17

USE uk ni

## NUCLEAR INSTRUMENT MODULES

Standard instrumentation modules designed to be interchangeable physically and electrically.

UF aec-nim

UF nim

RT camac system

RT computers

RT data acquisition systems

RT data transmission

RT electronic equipment

RT fastbus system

RT modular structures

RT on-line control systems

## NUCLEAR INSURANCE

BT1 insurance

RT price-anderson act

## NUCLEAR LIABILITY

INIS: 1976-12-08; ETDE: 1991-08-20

The special liability regime, for nuclear damage, of the operators of nuclear installations.

BT1 liabilities

RT cscnd

RT liability exclusions

RT liability limitations

RT nuclear operators

RT pcotpl

RT price-anderson act

RT time limitations

RT voclnd

## nuclear log

INIS: 2000-04-12; ETDE: 1976-06-07

USE radioactivity logging

## NUCLEAR MAGNETIC LOGGING

INIS: 1978-04-21; ETDE: 1976-06-07

UF nmr logging

BT1 well logging

## NUCLEAR MAGNETIC MOMENTS

UF nuclear moments (magnetic)

BT1 magnetic moments

BT1 nuclear properties

RT magnetic dipole moments

RT nuclear magnetism

RT perturbed angular correlation

RT quadrupole moments

RT schmidt lines

## NUCLEAR MAGNETIC

### RESONANCE

UF nmr

UF nuclear spin resonance

UF paramagnetic resonance (nuclear)

\*BT1 magnetic resonance

NT1 acoustic nmr

NT1 td-nmr

RT chemical shift

RT contrast media

RT double resonance methods

RT knight shift

RT level mixing resonance

RT nmr imaging

RT nmr spectra

RT nuclear magnetism

RT overhauser effect

RT spin echo

RT spin-lattice relaxation

RT spin-spin relaxation

RT structural chemical analysis

## nuclear magnetic resonance spectra

INIS: 1993-11-09; ETDE: 2002-04-17

USE nmr spectra

## NUCLEAR MAGNETISM

INIS: 1985-03-19; ETDE: 1990-11-20

Refers to ordering of nuclear spins at extremely low temperatures.

UF nuclear ferromagnetism

BT1 magnetism

RT nuclear magnetic moments

RT nuclear magnetic resonance  
RT spin orientation

### **nuclear mater, agencia brasil-argentina contabil controle**

INIS: 1999-06-22; ETDE: 2002-04-17  
USE abacc

### **nuclear materials, convention on physical protection**

INIS: 1993-11-09; ETDE: 2002-04-17  
USE cppnm

### **NUCLEAR MATERIALS DIVERSION**

RT civex process  
RT cppnm  
RT detection  
RT motion detection systems  
RT non-proliferation policy  
RT safeguards  
RT security personnel

### **NUCLEAR MATERIALS**

#### **MANAGEMENT**

UF accountability (nuclear materials)  
UF dymac system  
UF dynamic materials accountability system  
UF fissionable materials management  
SF accountability  
BT1 management  
NT1 fuel management  
RT accounting  
RT cost  
RT cppnm  
RT detection  
RT fissile materials  
RT fissionable materials  
RT fuel cycle  
RT harvest process  
RT identification systems  
RT intrusion detection systems  
RT losses  
RT material unaccounted for  
RT nuclear fuels  
RT nuclear materials possession  
RT nuclear weapons dismantlement  
RT radioactive wastes  
RT reprocessing  
RT safeguards

### **NUCLEAR MATERIALS**

#### **POSSESSION**

INIS: 1977-04-07; ETDE: 1977-06-03  
UF possession (nuclear materials)  
RT non-proliferation treaty  
RT nuclear materials management  
RT nuclear trade  
RT proliferation  
RT safeguard regulations  
RT safeguards

### **NUCLEAR MATRIX**

BT1 matrices

### **NUCLEAR MATTER**

UF neutron matter  
UF nuclear density  
UF nuclear matter density  
BT1 matter  
RT centauro-type events  
RT neutron stars  
RT nuclei  
RT pion condensation  
RT quark matter  
RT walecka model

### **nuclear matter density**

INIS: 1984-04-04; ETDE: 2002-04-17  
Coordinate descriptor below with NEUTRON DENSITY and/or PROTON DENSITY.  
USE nuclear matter

### **NUCLEAR MEDICINE**

UF radiodiagnosis (radionuclides)  
BT1 medicine  
NT1 radiology  
NT2 biomedical radiography  
NT3 fluoroscopy  
NT3 ionographic imaging  
NT3 osteodensitometry  
NT3 renography  
NT2 radiotherapy  
NT3 afterloading  
NT3 brachytherapy  
NT3 ct-guided radiotherapy  
NT3 neutron therapy  
NT4 neutron capture therapy  
NT3 radioimmunotherapy  
RT clearance  
RT diagnosis  
RT diagnostic techniques  
RT gamma cameras  
RT labelled compounds  
RT positron cameras  
RT radioisotope scanning  
RT radioisotopes  
RT radiopharmaceuticals  
RT scintiscanning  
RT tracer techniques

### **NUCLEAR MERCHANT SHIPS**

INIS: 1976-11-17; ETDE: 1978-05-01  
UF commercial nuclear ships  
\*BT1 nuclear ships  
NT1 ns mutsu  
NT1 ns otto hahn  
NT1 ns savannah

### **NUCLEAR MODELS**

1996-01-24  
UF models (nuclear)  
BT1 mathematical models  
NT1 black nucleus model  
NT1 brueckner model  
NT1 cloudy crystal ball model  
NT1 cluster model  
NT1 coherent tube model  
NT1 collective model  
NT2 rotation-vibration model  
NT1 cranking model  
NT1 davydov-filipov model  
NT1 droplet model  
NT1 elliot model  
NT1 evaporation model  
NT2 weiskopf model  
NT1 exciton model  
NT1 fermi gas model  
NT1 folding model  
NT1 goldberger model  
NT1 lane-thomas-wigner model  
NT1 liquid drop model  
NT1 nilsson-mottelson model  
NT1 nuclear fireball model  
NT1 order-disorder model  
NT1 particle-core coupling model  
NT1 particle-hole model  
NT1 perey-buck model  
NT1 quartet model  
NT1 quasiparticle-phonon model  
NT1 scission-point model  
NT1 shell models  
NT2 governor model  
NT2 interacting boson model  
NT2 multi-center shell model  
NT1 single-particle model  
NT1 spherical model

NT1 strong-absorption model  
NT1 superfluid model  
NT1 unified model  
NT1 valency model  
NT1 vibron model  
NT1 vmi model  
NT1 walecka model  
NT1 weak-coupling model  
RT bohr-wheeler theory  
RT brueckner method  
RT compound nuclei  
RT deformed nuclei  
RT hamada-johnston potential  
RT harmonic oscillator models  
RT hartree-fock-bogolyubov theory  
RT hartree-fock method  
RT hill-wheeler theory  
RT hurwitz effect  
RT hydrodynamic model  
RT kisslinger-sorensen theory  
RT nuclear radii  
RT nuclear structure  
RT nucleon-nucleon potential  
RT optical models  
RT strutinsky theory  
RT thomas-fermi model

### **NUCLEAR MOLECULES**

RT interactions  
RT nuclei

### **nuclear moments (electric)**

INIS: 1984-04-04; ETDE: 2002-04-17  
USE nuclear electric moments

### **nuclear moments (magnetic)**

INIS: 1984-04-04; ETDE: 2002-04-17  
USE nuclear magnetic moments

### **NUCLEAR OPERATORS**

INIS: 1976-12-08; ETDE: 1991-08-20  
The financially responsible organizations or persons.  
UF operators (nuclear facilities)  
RT national organizations  
RT notification procedures  
RT nuclear liability  
RT wano

### **NUCLEAR PARKS**

A facility containing a nuclear power plant plus on-site support industries such as fuel fabrication plants, reprocessing plants, etc.  
UF parks (nuclear)  
BT1 energy parks  
RT fuel fabrication plants  
RT fuel reprocessing plants  
RT nuclear facilities  
RT nuclear industry  
RT nuclear power plants

### **NUCLEAR PHYSICS**

Use only for indexing articles of very broad coverage, such as annual reviews, text books, etc.  
BT1 physics  
RT high energy physics  
RT nuclear chemistry  
RT nuclear theory

### **nuclear physics research institute amsterdam**

INIS: 1993-11-09; ETDE: 2002-04-17  
USE iko

### **NUCLEAR POISONS**

Neutron absorbers in a reactor.  
UF poisons (nuclear)  
\*BT1 reactor materials  
NT1 burnable poisons  
NT1 fission poisons

**NT1** soluble poisons  
*RT* poisoning  
*RT* reactor poison removal  
*RT* samarium oscillations  
*RT* xenon oscillations

**NUCLEAR POTENTIAL**

1996-07-08

**BT1** potentials  
**NT1** fission barrier  
**NT1** hard-core potential  
**NT1** harmonic potential  
**NT1** hulthen potential  
**NT1** soft-core potential  
**NT1** square-well potential  
**NT1** woods-saxon potential  
**NT1** yukawa potential  
*RT* gamow barrier  
*RT* hamada-johnston potential  
*RT* nonlocal potential  
*RT* nuclear forces  
*RT* nuclear halos  
*RT* optical models  
*RT* tabakin potential  
*RT* wigner-eisenbud theory

**NUCLEAR POWER**

*UF* nuclear controversy  
**BT1** power  
**NT1** residual power  
*RT* electric power  
*RT* electric power industry  
*RT* nuclear power phaseout  
*RT* off-peak power  
*RT* power generation

**nuclear power demonstration reactor-2 canada**

2000-04-12

USE npd reactor

**nuclear power demonstration reactor canada**

1993-11-09

USE npd reactor

**NUCLEAR POWER PHASEOUT**

INIS: 1982-12-03; ETDE: 1978-10-25

Policy scenario wherein plants now operating or under construction are allowed normal-life operation, but no additional plants are allowed.

*RT* energy policy  
*RT* government policies  
*RT* nuclear power

**nuclear power plant research institute**

2002-12-17

USE vuje

**NUCLEAR POWER PLANTS**

1997-06-17

*UF* nuclear power stations  
**BT1** nuclear facilities  
**\*BT1** thermal power plants  
**NT1** bopssar standard plant  
**NT1** ebasco standard plant  
**NT1** gibbsar standard plant  
**NT1** offshore nuclear power plants  
**NT1** swessar standard plant  
**NT1** underground nuclear stations  
*RT* nuclear energy  
*RT* nuclear parks  
*RT* power reactors  
*RT* risk assessment  
*RT* thermonuclear power plants

**nuclear power stations**

USE nuclear power plants

**NUCLEAR PROPERTIES**

**NT1** nuclear electric moments  
**NT1** nuclear magnetic moments  
**NT1** nuclear radii  
*RT* limiting values  
*RT* nuclear structure

**nuclear-pumped lasers**

INIS: 1984-04-04; ETDE: 2002-04-17

Coordinate descriptor below with appropriate descriptor from word block for LASERS.

USE nuclear pumping

**NUCLEAR PUMPING**

Laser-like pumping in nuclei, produced by electrons or, in general, by beams of charged particles.

*UF* nuclear-pumped lasers  
*UF* pumping (nuclear)

**BT1** pumping  
*RT* electrical pumping  
*RT* gasers  
*RT* lasers  
*RT* optical pumping  
*RT* stimulated emission

**NUCLEAR QUADRUPOLE RESONANCE**

**BT1** resonance  
*RT* electric fields  
*RT* level mixing resonance  
*RT* nuclear electric moments  
*RT* quadrupole moments

**NUCLEAR RADII**

*UF* charge radius (nuclear)  
*UF* mass radius (nuclear)  
**BT1** nuclear properties  
*RT* charge distribution  
*RT* nuclear models  
*RT* nuclear structure  
*RT* particle radii

**NUCLEAR REACTION ANALYSIS**

1999-05-04

Chemical analysis based on detection and analysis of prompt nuclear reaction products, e.g., gamma rays, neutrons, or charged particles.

*UF* analysis (nuclear reaction)  
*UF* nra  
*UF* pige analysis  
**\*BT1** nondestructive analysis  
**NT1** delayed neutron analysis  
*RT* activation analysis  
*RT* nuclear reaction analyzers

**NUCLEAR REACTION ANALYZERS**

INIS: 1986-01-21; ETDE: 1979-01-30

**BT1** measuring instruments  
*RT* delayed neutron analysis  
*RT* fuel scanning  
*RT* neutron activation analyzers  
*RT* nuclear reaction analysis

**NUCLEAR REACTION KINETICS**

**\*BT1** reaction kinetics  
*RT* coupled channel born approximation  
*RT* distorted wave theory  
*RT* dwba  
*RT* finite-range interactions  
*RT* nuclear reactions  
*RT* q-value  
*RT* rescattering  
*RT* resonating-group method  
*RT* spin flip  
*RT* zero-range approximation

**NUCLEAR REACTION YIELD**

*UF* yield (nuclear reaction)  
**BT1** yields

**NT1** fission yield  
**NT1** fusion yield  
*RT* nuclear fragments  
*RT* nuclear reactions

**NUCLEAR REACTIONS**

1995-05-09

**NT1** antineutrino reactions  
**NT1** breakup reactions  
**NT1** charge-exchange reactions  
**NT1** charged-particle reactions  
**NT2** alpha reactions  
**NT2** deuteron reactions  
**NT3** antideuteron reactions  
**NT2** electron reactions  
**NT3** electrofission  
**NT2** helium 3 reactions  
**NT2** meson reactions  
**NT3** kaon reactions  
**NT4** kaon minus reactions  
**NT4** kaon neutral reactions  
**NT4** kaon plus reactions  
**NT3** pion reactions  
**NT4** pion minus reactions  
**NT4** pion plus reactions  
**NT2** muon reactions  
**NT2** proton reactions  
**NT2** triton reactions  
**NT1** cold fusion  
**NT1** compound-nucleus reactions  
**NT1** direct reactions  
**NT2** knock-on reactions  
**NT2** knock-out reactions  
**NT2** quasi-free reactions  
**NT3** quasi-elastic scattering  
**NT2** transfer reactions  
**NT3** multi-nucleon transfer reactions  
**NT4** four-nucleon transfer reactions  
**NT5** alpha-transfer reactions  
**NT4** many-nucleon transfer reactions  
**NT4** three-nucleon transfer reactions  
**NT4** two-nucleon transfer reactions  
**NT3** one-nucleon transfer reactions  
**NT3** pickup reactions  
**NT3** stripping  
**NT1** fission  
**NT2** binary fission  
**NT2** cold fission  
**NT2** electrofission  
**NT2** fast fission  
**NT2** photofission  
**NT2** quaternary fission  
**NT2** spontaneous fission  
**NT2** ternary fission  
**NT2** thermal fission  
**NT1** hadron reactions  
**NT2** baryon reactions  
**NT3** hyperon reactions  
**NT3** nucleon reactions  
**NT4** antinucleon reactions  
**NT5** antineutron reactions  
**NT5** antiproton reactions  
**NT4** neutron reactions  
**NT5** fast fission  
**NT5** thermal fission  
**NT4** proton reactions  
**NT2** meson reactions  
**NT3** kaon reactions  
**NT4** kaon minus reactions  
**NT4** kaon neutral reactions  
**NT4** kaon plus reactions  
**NT3** pion reactions  
**NT4** pion minus reactions  
**NT4** pion plus reactions  
**NT1** heavy ion reactions  
**NT2** aluminium 27 reactions  
**NT2** argon 36 reactions  
**NT2** argon 40 reactions  
**NT2** beryllium 11 reactions



- NT2** beryllium 7 reactions  
**NT2** beryllium 8 reactions  
**NT2** beryllium 9 reactions  
**NT2** bismuth 209 reactions  
**NT2** boron 10 reactions  
**NT2** boron 11 reactions  
**NT2** boron 8 reactions  
**NT2** bromine 79 reactions  
**NT2** bromine 81 reactions  
**NT2** calcium 40 reactions  
**NT2** calcium 42 reactions  
**NT2** calcium 44 reactions  
**NT2** calcium 48 reactions  
**NT2** carbon 12 reactions  
**NT2** carbon 13 reactions  
**NT2** carbon 14 reactions  
**NT2** chlorine 35 reactions  
**NT2** chlorine 37 reactions  
**NT2** chromium 52 reactions  
**NT2** chromium 54 reactions  
**NT2** cobalt 59 reactions  
**NT2** copper 63 reactions  
**NT2** copper 65 reactions  
**NT2** deep inelastic heavy ion reactions  
**NT2** dysprosium 161 reactions  
**NT2** erbium 166 reactions  
**NT2** fluorine 19 reactions  
**NT2** gadolinium 155 reactions  
**NT2** germanium 70 reactions  
**NT2** germanium 74 reactions  
**NT2** germanium 76 reactions  
**NT2** gold 197 reactions  
**NT2** heavy ion fusion reactions  
**NT2** helium 6 reactions  
**NT2** helium 8 reactions  
**NT2** holmium 165 reactions  
**NT2** incomplete fusion reactions  
**NT2** iodine 127 reactions  
**NT2** iron 54 reactions  
**NT2** iron 56 reactions  
**NT2** iron 58 reactions  
**NT2** krypton 80 reactions  
**NT2** krypton 82 reactions  
**NT2** krypton 83 reactions  
**NT2** krypton 84 reactions  
**NT2** krypton 86 reactions  
**NT2** lanthanum 139 reactions  
**NT2** lead 206 reactions  
**NT2** lead 208 reactions  
**NT2** lithium 11 reactions  
**NT2** lithium 6 reactions  
**NT2** lithium 7 reactions  
**NT2** lithium 8 reactions  
**NT2** lithium 9 reactions  
**NT2** magnesium 24 reactions  
**NT2** magnesium 25 reactions  
**NT2** magnesium 26 reactions  
**NT2** manganese 55 reactions  
**NT2** molybdenum 100 reactions  
**NT2** molybdenum 92 reactions  
**NT2** molybdenum 96 reactions  
**NT2** molybdenum 98 reactions  
**NT2** neodymium 142 reactions  
**NT2** neodymium 150 reactions  
**NT2** neon 20 reactions  
**NT2** neon 22 reactions  
**NT2** neon 29 reactions  
**NT2** nickel 58 reactions  
**NT2** nickel 59 reactions  
**NT2** nickel 60 reactions  
**NT2** nickel 61 reactions  
**NT2** nickel 62 reactions  
**NT2** nickel 64 reactions  
**NT2** niobium 93 reactions  
**NT2** nitrogen 13 reactions  
**NT2** nitrogen 14 reactions  
**NT2** nitrogen 15 reactions  
**NT2** oxygen 14 reactions  
**NT2** oxygen 16 reactions  
**NT2** oxygen 17 reactions  
**NT2** oxygen 18 reactions  
**NT2** palladium 110 reactions  
**NT2** palladium 118 reactions  
**NT2** phosphorus 31 reactions  
**NT2** potassium 39 reactions  
**NT2** quasi-fission  
**NT2** ruthenium 104 reactions  
**NT2** samarium 144 reactions  
**NT2** samarium 154 reactions  
**NT2** scandium 45 reactions  
**NT2** selenium 76 reactions  
**NT2** selenium 80 reactions  
**NT2** selenium 82 reactions  
**NT2** silicon 28 reactions  
**NT2** silicon 29 reactions  
**NT2** silicon 30 reactions  
**NT2** silver 109 reactions  
**NT2** sodium 23 reactions  
**NT2** sulfur 32 reactions  
**NT2** sulfur 33 reactions  
**NT2** sulfur 34 reactions  
**NT2** sulfur 36 reactions  
**NT2** sulfur 39 reactions  
**NT2** tellurium 130 reactions  
**NT2** thallium 205 reactions  
**NT2** thorium 232 reactions  
**NT2** tin 112 reactions  
**NT2** tin 116 reactions  
**NT2** tin 118 reactions  
**NT2** tin 120 reactions  
**NT2** tin 122 reactions  
**NT2** tin 124 reactions  
**NT2** titanium 46 reactions  
**NT2** titanium 48 reactions  
**NT2** titanium 49 reactions  
**NT2** titanium 50 reactions  
**NT2** tungsten 183 reactions  
**NT2** tungsten 184 reactions  
**NT2** uranium 235 reactions  
**NT2** uranium 238 reactions  
**NT2** vanadium 51 reactions  
**NT2** xenon 129 reactions  
**NT2** xenon 132 reactions  
**NT2** xenon 134 reactions  
**NT2** xenon 136 reactions  
**NT2** zinc 64 reactions  
**NT2** zinc 68 reactions  
**NT2** zinc 70 reactions  
**NT2** zirconium 90 reactions  
**NT2** zirconium 92 reactions  
**NT2** zirconium 96 reactions  
**NT1** lepton reactions  
**NT2** electron reactions  
**NT3** electrofission  
**NT2** muon reactions  
**NT2** neutrino reactions  
**NT2** positron reactions  
**NT1** nuclear fragmentation  
**NT1** photonuclear reactions  
**NT2** photofission  
**NT1** precompound-nucleus emission  
**NT1** secondary reactions  
**NT1** spallation  
**NT1** strangeness-exchange reactions  
**NT1** thermonuclear reactions  
**NT2** impact fusion  
**NT2** muon-catalyzed fusion  
**RT** capture  
**RT** capture-to-fission ratio  
**RT** chain reactions  
**RT** cinda  
**RT** coherent tube model  
**RT** coupled channel born approximation  
**RT** coupled channel theory  
**RT** cross sections  
**RT** delayed gamma radiation  
**RT** detailed balance principle  
**RT** excitation functions  
**RT** feshbach-weisskopf model  
**RT** form factors  
**RT** g matrix  
**RT** giant resonance  
**RT** hauser-feshbach theory  
**RT** hot atom chemistry  
**RT** impact parameter  
**RT** integral cross sections  
**RT** intermediate resonance  
**RT** intermediate structure  
**RT** jackson model  
**RT** k matrix  
**RT** lane-robson theory  
**RT** lewis peak  
**RT** longitudinal momentum  
**RT** nuclear reaction kinetics  
**RT** nuclear reaction yield  
**RT** oppenheimer-phillips process  
**RT** polarized products  
**RT** prompt gamma radiation  
**RT** proximity scattering  
**RT** r matrix  
**RT** reaction product transport systems  
**RT** reich-moore formula  
**RT** rescattering  
**RT** scattering  
**RT** shadow effect  
**RT** skyrme potential  
**RT** spectroscopic factors  
**RT** strangeness analog resonances  
**RT** targets  
**RT** threshold energy  
**RT** transverse energy  
**RT** transverse momentum  
**RT** valency model  
**RT** yang theorem  
**nuclear reactors**  
 USE reactors  
**nuclear regulatory authority of the slovak republic**  
 2002-12-17  
 USE ujd  
**nuclear research centre, tehran**  
 INIS: 1976-10-07; ETDE: 2002-04-17  
 USE tehran nuclear research centre  
**nuclear safety**  
 USE radiation protection  
**nuclear safety convention**  
 1999-12-23  
 USE international convention on nuclear safety  
**nuclear safety culture**  
 2003-01-17  
 USE safety culture  
**nuclear safety facility-rfp reactor**  
 1993-11-09  
 USE nsf-rfp reactor  
**NUCLEAR SAFETY PILOT PLANT**  
 UF nspp  
 BT1 reactor safety experiments  
**nuclear safety research reactor (japan)**  
 INIS: 1993-11-09; ETDE: 1976-05-19  
 USE nsrr reactor  
**nuclear science center reactor texas**  
 1993-11-09  
 USE nscr reactor  
**NUCLEAR SCREENING**  
 UF screening (nuclear)  
 RT coulomb field

RT effective charge

### **nuclear ship arktika reactor**

INIS: 2000-04-12; ETDE: 1994-09-12

USE leonid brezhnev reactor

### **nuclear ship lenin reactor**

2000-04-12

USE lenin reactor

### **nuclear ship leonid brezhnev reactor**

INIS: 1993-11-09; ETDE: 1994-09-12

USE leonid brezhnev reactor

### **nuclear ship mutsu reactor**

2000-04-12

USE mutsu reactor

### **nuclear ship operation liability convention, brussels**

INIS: 1993-11-09; ETDE: 2002-04-17

*Brussels Convention on Liability for Operation of Nuclear Ships.*

USE bcolons

### **nuclear ship otto hahn reactor**

1993-11-09

USE otto hahn reactor

### **nuclear ship savannah reactor**

2000-04-12

USE savannah reactor

### **nuclear ship sibir reactor**

INIS: 1985-09-09; ETDE: 2002-04-17

USE sibir reactor

### **NUCLEAR SHIP VISITS**

INIS: 1976-12-08; ETDE: 1981-04-17

RT bcolons

RT maritime laws

RT nuclear ships

RT territorial waters

RT transport regulations

### **NUCLEAR SHIPS**

BT1 ships

NT1 ns enrico fermi

NT1 ns lenin

NT1 ns leonid brezhnev

NT1 ns sibir

NT1 nuclear merchant ships

NT2 ns mutsu

NT2 ns otto hahn

NT2 ns savannah

RT bcolons

RT nuclear ship visits

RT ship propulsion reactors

RT solas convention

RT submarines

### **NUCLEAR SPECIFIC HEAT**

1976-03-17

*Contribution to specific heat by lattice vibrations.*

\*BT1 specific heat

RT electronic specific heat

RT lattice vibrations

### **nuclear spin resonance**

USE nuclear magnetic resonance

### **NUCLEAR STRUCTURE**

1995-07-03

RT backbending

RT belyaev theory

RT energy levels

RT even-even nuclei

RT even-odd nuclei

RT generator-coordinate method

RT hartree-fock-bogolyubov theory

RT hartree-fock method

RT heavy nuclei

RT interacting boson model

RT intermediate mass nuclei

RT k-harmonics method

RT light nuclei

RT magic nuclei

RT nuclear cores

RT nuclear halos

RT nuclear models

RT nuclear properties

RT nuclear radii

RT nuclei

RT odd-even nuclei

RT odd-odd nuclei

RT particle-core coupling model

RT quartet model

RT yrast states

### **NUCLEAR SUPERHEATING**

\*BT1 superheating

### **NUCLEAR TEMPERATURE**

UF temperature (nuclear)

RT energy

RT evaporation model

RT nuclei

### **nuclear test reactor general electric company**

1993-11-09

USE ntr reactor

### **NUCLEAR TEST SITES**

1999-01-25

NT1 azgir test site

NT1 nevada test site

NT1 semipalatinsk test site

RT nuclear explosions

RT nuclear weapons

### **NUCLEAR THEORY**

NT1 hauser-feshbach theory

RT broken-pair approximation

RT nuclear physics

### **NUCLEAR TRADE**

INIS: 1976-12-08; ETDE: 1978-03-08

*Trade or commerce involving special nuclear material or any other radioactive materials, instruments, equipment, plants, etc., of nuclear interest.*

UF commerce (nuclear)

UF trade (nuclear)

BT1 trade

RT economic development

RT economic policy

RT nuclear materials possession

RT transport

### **nuclear transmutation**

USE transmutation

### **NUCLEAR WASTE POLICY ACTS**

INIS: 1985-07-22; ETDE: 1984-06-29

*For legislation of any country relating to the handling of nuclear radioactive wastes.*

UF radioactive waste policy acts

\*BT1 atomic energy laws

\*BT1 waste disposal acts

RT high-level radioactive wastes

RT low-level radioactive wastes

RT radioactive waste disposal

RT radioactive wastes

RT spent fuel storage

RT spent fuels

### **nuclear wastes**

INIS: 2000-04-12; ETDE: 1979-11-23

USE radioactive wastes

### **nuclear weapon tests**

USE nuclear explosions

### **NUCLEAR WEAPONS**

1998-06-10

*(Prior to August 1996 TUMBLER PROJECT was a valid ETDE descriptor.)*

UF atomic bombs

UF atomic weapons

UF nuclear attacks

UF thermonuclear weapons

SF tumbler project

BT1 weapons

NT1 enhanced radiation weapons

NT1 little boy

RT azgir test site

RT ballistic missile defense

RT bangkok treaty

RT castle project

RT civil defense

RT ctbt

RT ctbto

RT fallout

RT hiroshima

RT local fallout

RT manhattan project

RT nagasaki

RT national defense

RT nevada test site

RT non-proliferation policy

RT nuclear deterrence

RT nuclear disarmament

RT nuclear explosions

RT nuclear test sites

RT nuclear winter

RT pelindaba treaty

RT plumbbob project

RT projectiles

RT rarotonga treaty

RT redwing project

RT semipalatinsk test site

RT shelters

RT teapot project

RT tlatalolco treaty

RT unidir

### **nuclear weapons, latin american prohibition treaty**

INIS: 1993-11-09; ETDE: 2002-04-17

USE tlatalolco treaty

### **NUCLEAR WEAPONS**

#### **DISMANTLEMENT**

1994-09-30

*The program for disassembly of nuclear weapons and the destruction, conversion or storage of their constituent materials, including the plutonium or highly enriched uranium.*

UF dismantlement (nuclear weapons)

RT arms control

RT non-proliferation policy

RT nuclear disarmament

RT nuclear materials management

RT proliferation

### **nuclear weapons proliferation**

INIS: 1978-02-23; ETDE: 1978-04-27

USE proliferation

### **NUCLEAR WINTER**

INIS: 1986-09-26; ETDE: 1985-05-31

*The atmospheric effects resulting from nuclear war. The major effect is considered to be a hemispheric temperature drop to as low as -40 deg C lasting several months.*

RT ambient temperature

RT climates

RT environmental impacts

RT nuclear explosions

RT nuclear weapons

**nuclease (deoxyribonuclease)**

USE dna-ase

**nuclease (ribonuclease)**

USE rna-ase

**NUCLEASES**

\*BT1 phosphodiesterases

NT1 dna-ase

NT2 endonucleases

NT1 rna-ase

RT micrococcus luteus

RT nucleic acids

RT nucleoproteins

**NUCLEATE BOILING**

\*BT1 boiling

NT1 departure nucleate boiling

RT heat transfer

RT nucleation

**NUCLEATION**

RT crystal growth

RT crystallization

RT nucleate boiling

**NUCLEBRAS**

INIS: 1977-03-29; ETDE: 1977-06-03

\*BT1 brazilian organizations

**NUCLEI**

NT1 antinuclei

NT2 antideuterons

NT2 antiprotons

NT2 antitritons

NT1 cosmic nuclei

NT1 deformed nuclei

NT2 superdeformed nuclei

NT1 even-even nuclei

NT2 argon 30

NT2 argon 32

NT2 argon 34

NT2 argon 36

NT2 argon 38

NT2 argon 40

NT2 argon 42

NT2 argon 44

NT2 argon 46

NT2 argon 48

NT2 argon 50

NT2 argon 52

NT2 barium 114

NT2 barium 116

NT2 barium 118

NT2 barium 120

NT2 barium 122

NT2 barium 124

NT2 barium 126

NT2 barium 128

NT2 barium 130

NT2 barium 132

NT2 barium 134

NT2 barium 136

NT2 barium 138

NT2 barium 140

NT2 barium 142

NT2 barium 144

NT2 barium 146

NT2 barium 148

NT2 barium 150

NT2 barium 152

NT2 beryllium 10

NT2 beryllium 12

NT2 beryllium 14

NT2 beryllium 16

NT2 beryllium 6

NT2 beryllium 8

NT2 cadmium 100

NT2 cadmium 102

NT2 cadmium 104

NT2 cadmium 106

NT2 cadmium 108

NT2 cadmium 110

NT2 cadmium 112

NT2 cadmium 114

NT2 cadmium 116

NT2 cadmium 118

NT2 cadmium 120

NT2 cadmium 122

NT2 cadmium 124

NT2 cadmium 126

NT2 cadmium 128

NT2 cadmium 130

NT2 cadmium 132

NT2 cadmium 96

NT2 cadmium 98

NT2 calcium 34

NT2 calcium 36

NT2 calcium 38

NT2 calcium 40

NT2 calcium 42

NT2 calcium 44

NT2 calcium 46

NT2 calcium 48

NT2 calcium 50

NT2 calcium 52

NT2 calcium 54

NT2 calcium 56

NT2 calcium 58

NT2 calcium 60

NT2 californium 236

NT2 californium 238

NT2 californium 240

NT2 californium 242

NT2 californium 244

NT2 californium 246

NT2 californium 248

NT2 californium 250

NT2 californium 252

NT2 californium 254

NT2 californium 256

NT2 carbon 10

NT2 carbon 12

NT2 carbon 14

NT2 carbon 16

NT2 carbon 18

NT2 carbon 20

NT2 carbon 22

NT2 carbon 8

NT2 cerium 120

NT2 cerium 122

NT2 cerium 124

NT2 cerium 126

NT2 cerium 128

NT2 cerium 130

NT2 cerium 132

NT2 cerium 134

NT2 cerium 136

NT2 cerium 138

NT2 cerium 140

NT2 cerium 142

NT2 cerium 144

NT2 cerium 146

NT2 cerium 148

NT2 cerium 150

NT2 cerium 152

NT2 cerium 154

NT2 cerium 156

NT2 chromium 42

NT2 chromium 44

NT2 chromium 46

NT2 chromium 48

NT2 chromium 50

NT2 chromium 52

NT2 chromium 54

NT2 chromium 56

NT2 chromium 58

NT2 chromium 60

NT2 chromium 62

NT2 chromium 64

NT2 chromium 66

NT2 curium 232

NT2 curium 234

NT2 curium 236

NT2 curium 238

NT2 curium 240

NT2 curium 242

NT2 curium 244

NT2 curium 246

NT2 curium 248

NT2 curium 250

NT2 curium 252

NT2 darmstadtium 270

NT2 darmstadtium 272

NT2 dysprosium 138

NT2 dysprosium 140

NT2 dysprosium 142

NT2 dysprosium 144

NT2 dysprosium 146

NT2 dysprosium 148

NT2 dysprosium 150

NT2 dysprosium 152

NT2 dysprosium 154

NT2 dysprosium 156

NT2 dysprosium 158

NT2 dysprosium 160

NT2 dysprosium 162

NT2 dysprosium 164

NT2 dysprosium 166

NT2 dysprosium 168

NT2 dysprosium 170

NT2 dysprosium 172

NT2 element 114 286

NT2 element 114 288

NT2 erbium 144

NT2 erbium 146

NT2 erbium 148

NT2 erbium 150

NT2 erbium 152

NT2 erbium 154

NT2 erbium 156

NT2 erbium 158

NT2 erbium 160

NT2 erbium 162

NT2 erbium 164

NT2 erbium 166

NT2 erbium 168

NT2 erbium 170

NT2 erbium 172

NT2 erbium 174

NT2 erbium 176

NT2 fermium 242

NT2 fermium 244

NT2 fermium 246

NT2 fermium 248

NT2 fermium 250

NT2 fermium 252

NT2 fermium 254

NT2 fermium 256

NT2 fermium 258

NT2 fermium 260

NT2 gadolinium 134

NT2 gadolinium 136

NT2 gadolinium 138

NT2 gadolinium 140

NT2 gadolinium 142

NT2 gadolinium 144

NT2 gadolinium 146

NT2 gadolinium 148

NT2 gadolinium 150

NT2 gadolinium 152

NT2 gadolinium 154

NT2 gadolinium 156

NT2 gadolinium 158

NT2 gadolinium 160

NT2 gadolinium 162

NT2 gadolinium 164

NT2 gadolinium 166

NT2 gadolinium 168  
 NT2 germanium 58  
 NT2 germanium 60  
 NT2 germanium 62  
 NT2 germanium 64  
 NT2 germanium 66  
 NT2 germanium 68  
 NT2 germanium 70  
 NT2 germanium 72  
 NT2 germanium 74  
 NT2 germanium 76  
 NT2 germanium 78  
 NT2 germanium 80  
 NT2 germanium 82  
 NT2 germanium 84  
 NT2 germanium 86  
 NT2 germanium 88  
 NT2 hafnium 154  
 NT2 hafnium 156  
 NT2 hafnium 158  
 NT2 hafnium 160  
 NT2 hafnium 162  
 NT2 hafnium 164  
 NT2 hafnium 166  
 NT2 hafnium 168  
 NT2 hafnium 170  
 NT2 hafnium 172  
 NT2 hafnium 174  
 NT2 hafnium 176  
 NT2 hafnium 178  
 NT2 hafnium 180  
 NT2 hafnium 182  
 NT2 hafnium 184  
 NT2 hafnium 186  
 NT2 hafnium 188  
 NT2 hassium 264  
 NT2 hassium 266  
 NT2 hassium 270  
 NT2 hassium 272  
 NT2 hassium 274  
 NT2 hassium 276  
 NT2 helium 10  
 NT2 helium 4  
 NT3 helium i  
 NT3 helium ii  
 NT2 helium 6  
 NT2 helium 8  
 NT2 iron 46  
 NT2 iron 48  
 NT2 iron 50  
 NT2 iron 52  
 NT2 iron 54  
 NT2 iron 56  
 NT2 iron 58  
 NT2 iron 60  
 NT2 iron 62  
 NT2 iron 64  
 NT2 iron 66  
 NT2 iron 68  
 NT2 iron 70  
 NT2 iron 72  
 NT2 krypton 100  
 NT2 krypton 70  
 NT2 krypton 72  
 NT2 krypton 74  
 NT2 krypton 76  
 NT2 krypton 78  
 NT2 krypton 80  
 NT2 krypton 82  
 NT2 krypton 84  
 NT2 krypton 86  
 NT2 krypton 88  
 NT2 krypton 90  
 NT2 krypton 92  
 NT2 krypton 94  
 NT2 krypton 96  
 NT2 krypton 98  
 NT2 lead 178  
 NT2 lead 180

NT2 lead 182  
 NT2 lead 184  
 NT2 lead 186  
 NT2 lead 188  
 NT2 lead 190  
 NT2 lead 192  
 NT2 lead 194  
 NT2 lead 196  
 NT2 lead 198  
 NT2 lead 200  
 NT2 lead 202  
 NT2 lead 204  
 NT2 lead 206  
 NT2 lead 208  
 NT2 lead 210  
 NT2 lead 212  
 NT2 lead 214  
 NT2 lead 216  
 NT2 magnesium 20  
 NT2 magnesium 22  
 NT2 magnesium 24  
 NT2 magnesium 26  
 NT2 magnesium 28  
 NT2 magnesium 30  
 NT2 magnesium 32  
 NT2 magnesium 34  
 NT2 magnesium 36  
 NT2 magnesium 38  
 NT2 magnesium 40  
 NT2 mercury 172  
 NT2 mercury 174  
 NT2 mercury 176  
 NT2 mercury 178  
 NT2 mercury 180  
 NT2 mercury 182  
 NT2 mercury 184  
 NT2 mercury 186  
 NT2 mercury 188  
 NT2 mercury 190  
 NT2 mercury 192  
 NT2 mercury 194  
 NT2 mercury 196  
 NT2 mercury 198  
 NT2 mercury 200  
 NT2 mercury 202  
 NT2 mercury 204  
 NT2 mercury 206  
 NT2 mercury 208  
 NT2 mercury 210  
 NT2 mercury 212  
 NT2 molybdenum 100  
 NT2 molybdenum 102  
 NT2 molybdenum 104  
 NT2 molybdenum 106  
 NT2 molybdenum 108  
 NT2 molybdenum 110  
 NT2 molybdenum 112  
 NT2 molybdenum 114  
 NT2 molybdenum 84  
 NT2 molybdenum 86  
 NT2 molybdenum 88  
 NT2 molybdenum 90  
 NT2 molybdenum 92  
 NT2 molybdenum 94  
 NT2 molybdenum 96  
 NT2 molybdenum 98  
 NT2 neodymium 124  
 NT2 neodymium 126  
 NT2 neodymium 128  
 NT2 neodymium 130  
 NT2 neodymium 132  
 NT2 neodymium 134  
 NT2 neodymium 136  
 NT2 neodymium 138  
 NT2 neodymium 140  
 NT2 neodymium 142  
 NT2 neodymium 144  
 NT2 neodymium 146  
 NT2 neodymium 148

NT2 neodymium 150  
 NT2 neodymium 152  
 NT2 neodymium 154  
 NT2 neodymium 156  
 NT2 neodymium 158  
 NT2 neodymium 160  
 NT2 neon 16  
 NT2 neon 18  
 NT2 neon 20  
 NT2 neon 22  
 NT2 neon 24  
 NT2 neon 26  
 NT2 neon 28  
 NT2 neon 30  
 NT2 neon 32  
 NT2 neon 34  
 NT2 nickel 48  
 NT2 nickel 50  
 NT2 nickel 52  
 NT2 nickel 54  
 NT2 nickel 56  
 NT2 nickel 58  
 NT2 nickel 60  
 NT2 nickel 62  
 NT2 nickel 64  
 NT2 nickel 66  
 NT2 nickel 68  
 NT2 nickel 70  
 NT2 nickel 72  
 NT2 nickel 74  
 NT2 nickel 76  
 NT2 nickel 78  
 NT2 nobelium 248  
 NT2 nobelium 250  
 NT2 nobelium 252  
 NT2 nobelium 254  
 NT2 nobelium 256  
 NT2 nobelium 258  
 NT2 nobelium 260  
 NT2 nobelium 262  
 NT2 nobelium 264  
 NT2 osmium 162  
 NT2 osmium 164  
 NT2 osmium 166  
 NT2 osmium 168  
 NT2 osmium 170  
 NT2 osmium 172  
 NT2 osmium 174  
 NT2 osmium 176  
 NT2 osmium 178  
 NT2 osmium 180  
 NT2 osmium 182  
 NT2 osmium 184  
 NT2 osmium 186  
 NT2 osmium 188  
 NT2 osmium 190  
 NT2 osmium 192  
 NT2 osmium 194  
 NT2 osmium 196  
 NT2 oxygen 12  
 NT2 oxygen 14  
 NT2 oxygen 16  
 NT2 oxygen 18  
 NT2 oxygen 20  
 NT2 oxygen 22  
 NT2 oxygen 24  
 NT2 oxygen 26  
 NT2 oxygen 28  
 NT2 palladium 100  
 NT2 palladium 102  
 NT2 palladium 104  
 NT2 palladium 106  
 NT2 palladium 108  
 NT2 palladium 110  
 NT2 palladium 112  
 NT2 palladium 114  
 NT2 palladium 116  
 NT2 palladium 118  
 NT2 palladium 120

NT2	palladium 122	NT2	radon 204	NT2	silicon 24
NT2	palladium 124	NT2	radon 206	NT2	silicon 26
NT2	palladium 92	NT2	radon 208	NT2	silicon 28
NT2	palladium 94	NT2	radon 210	NT2	silicon 30
NT2	palladium 96	NT2	radon 212	NT2	silicon 32
NT2	palladium 98	NT2	radon 214	NT2	silicon 34
NT2	platinum 168	NT2	radon 216	NT2	silicon 36
NT2	platinum 170	NT2	radon 218	NT2	silicon 38
NT2	platinum 172	NT2	radon 220	NT2	silicon 40
NT2	platinum 174	NT2	radon 222	NT2	silicon 42
NT2	platinum 176	NT2	radon 224	NT2	silicon 44
NT2	platinum 178	NT2	radon 226	NT2	strontium 100
NT2	platinum 180	NT2	radon 228	NT2	strontium 102
NT2	platinum 182	NT2	ruthenium 100	NT2	strontium 104
NT2	platinum 184	NT2	ruthenium 102	NT2	strontium 74
NT2	platinum 186	NT2	ruthenium 104	NT2	strontium 76
NT2	platinum 188	NT2	ruthenium 106	NT2	strontium 78
NT2	platinum 190	NT2	ruthenium 108	NT2	strontium 80
NT2	platinum 192	NT2	ruthenium 110	NT2	strontium 82
NT2	platinum 194	NT2	ruthenium 112	NT2	strontium 84
NT2	platinum 196	NT2	ruthenium 114	NT2	strontium 86
NT2	platinum 198	NT2	ruthenium 116	NT2	strontium 88
NT2	platinum 200	NT2	ruthenium 118	NT2	strontium 90
NT2	platinum 202	NT2	ruthenium 120	NT2	strontium 92
NT2	platinum 204	NT2	ruthenium 88	NT2	strontium 94
NT2	platinum 206	NT2	ruthenium 90	NT2	strontium 96
NT2	platinum 208	NT2	ruthenium 92	NT2	strontium 98
NT2	plutonium 228	NT2	ruthenium 94	NT2	sulfur 24
NT2	plutonium 230	NT2	ruthenium 96	NT2	sulfur 26
NT2	plutonium 232	NT2	ruthenium 98	NT2	sulfur 28
NT2	plutonium 234	NT2	rutherfordium 254	NT2	sulfur 30
NT2	plutonium 236	NT2	rutherfordium 256	NT2	sulfur 32
NT2	plutonium 238	NT2	rutherfordium 258	NT2	sulfur 34
NT2	plutonium 240	NT2	rutherfordium 260	NT2	sulfur 36
NT2	plutonium 242	NT2	rutherfordium 262	NT2	sulfur 38
NT2	plutonium 244	NT2	rutherfordium 264	NT2	sulfur 40
NT2	plutonium 246	NT2	rutherfordium 266	NT2	sulfur 42
NT2	plutonium 248	NT2	rutherfordium 268	NT2	sulfur 44
NT2	plutonium 250	NT2	samarium 128	NT2	sulfur 46
NT2	polonium 186	NT2	samarium 130	NT2	sulfur 48
NT2	polonium 188	NT2	samarium 132	NT2	tellurium 106
NT2	polonium 190	NT2	samarium 134	NT2	tellurium 108
NT2	polonium 192	NT2	samarium 136	NT2	tellurium 110
NT2	polonium 194	NT2	samarium 138	NT2	tellurium 112
NT2	polonium 196	NT2	samarium 140	NT2	tellurium 114
NT2	polonium 198	NT2	samarium 142	NT2	tellurium 116
NT2	polonium 200	NT2	samarium 144	NT2	tellurium 118
NT2	polonium 202	NT2	samarium 146	NT2	tellurium 120
NT2	polonium 204	NT2	samarium 148	NT2	tellurium 122
NT2	polonium 206	NT2	samarium 150	NT2	tellurium 124
NT2	polonium 208	NT2	samarium 152	NT2	tellurium 126
NT2	polonium 210	NT2	samarium 154	NT2	tellurium 128
NT2	polonium 212	NT2	samarium 156	NT2	tellurium 130
NT2	polonium 214	NT2	samarium 158	NT2	tellurium 132
NT2	polonium 216	NT2	samarium 160	NT2	tellurium 134
NT2	polonium 218	NT2	samarium 162	NT2	tellurium 136
NT2	polonium 220	NT2	samarium 164	NT2	tellurium 138
NT2	radium 202	NT2	seaborgium 258	NT2	tellurium 140
NT2	radium 204	NT2	seaborgium 260	NT2	tellurium 142
NT2	radium 206	NT2	seaborgium 262	NT2	thorium 208
NT2	radium 208	NT2	seaborgium 264	NT2	thorium 210
NT2	radium 210	NT2	seaborgium 266	NT2	thorium 212
NT2	radium 212	NT2	seaborgium 268	NT2	thorium 214
NT2	radium 214	NT2	seaborgium 270	NT2	thorium 216
NT2	radium 216	NT2	seaborgium 272	NT2	thorium 218
NT2	radium 218	NT2	selenium 64	NT2	thorium 220
NT2	radium 220	NT2	selenium 66	NT2	thorium 224
NT2	radium 222	NT2	selenium 68	NT2	thorium 226
NT2	radium 224	NT2	selenium 70	NT2	thorium 228
NT2	radium 226	NT2	selenium 72	NT2	thorium 230
NT2	radium 228	NT2	selenium 74	NT2	thorium 232
NT2	radium 230	NT2	selenium 76	NT2	thorium 234
NT2	radium 232	NT2	selenium 78	NT2	thorium 236
NT2	radium 234	NT2	selenium 80	NT2	thorium 238
NT2	radon 194	NT2	selenium 82	NT2	tin 100
NT2	radon 196	NT2	selenium 84	NT2	tin 102
NT2	radon 198	NT2	selenium 86	NT2	tin 104
NT2	radon 200	NT2	selenium 88	NT2	tin 106
NT2	radon 202	NT2	silicon 22	NT2	tin 108

NT2 tin 110  
 NT2 tin 112  
 NT2 tin 114  
 NT2 tin 116  
 NT2 tin 118  
 NT2 tin 120  
 NT2 tin 122  
 NT2 tin 124  
 NT2 tin 126  
 NT2 tin 128  
 NT2 tin 130  
 NT2 tin 132  
 NT2 tin 134  
 NT2 tin 136  
 NT2 titanium 38  
 NT2 titanium 40  
 NT2 titanium 42  
 NT2 titanium 44  
 NT2 titanium 46  
 NT2 titanium 48  
 NT2 titanium 50  
 NT2 titanium 52  
 NT2 titanium 54  
 NT2 titanium 56  
 NT2 titanium 58  
 NT2 titanium 60  
 NT2 titanium 62  
 NT2 tungsten 158  
 NT2 tungsten 160  
 NT2 tungsten 162  
 NT2 tungsten 164  
 NT2 tungsten 166  
 NT2 tungsten 168  
 NT2 tungsten 170  
 NT2 tungsten 172  
 NT2 tungsten 174  
 NT2 tungsten 176  
 NT2 tungsten 178  
 NT2 tungsten 180  
 NT2 tungsten 182  
 NT2 tungsten 184  
 NT2 tungsten 186  
 NT2 tungsten 188  
 NT2 tungsten 190  
 NT2 tungsten 192  
 NT2 uranium 218  
 NT2 uranium 220  
 NT2 uranium 222  
 NT2 uranium 224  
 NT2 uranium 226  
 NT2 uranium 228  
 NT2 uranium 230  
 NT2 uranium 232  
 NT2 uranium 234  
 NT2 uranium 236  
 NT2 uranium 238  
 NT2 uranium 240  
 NT2 uranium 242  
 NT2 xenon 110  
 NT2 xenon 112  
 NT2 xenon 114  
 NT2 xenon 116  
 NT2 xenon 118  
 NT2 xenon 120  
 NT2 xenon 122  
 NT2 xenon 124  
 NT2 xenon 126  
 NT2 xenon 128  
 NT2 xenon 130  
 NT2 xenon 132  
 NT2 xenon 134  
 NT2 xenon 136  
 NT2 xenon 138  
 NT2 xenon 140  
 NT2 xenon 142  
 NT2 xenon 144  
 NT2 xenon 146  
 NT2 ytterbium 148  
 NT2 ytterbium 150

NT2 ytterbium 152  
 NT2 ytterbium 154  
 NT2 ytterbium 156  
 NT2 ytterbium 158  
 NT2 ytterbium 160  
 NT2 ytterbium 162  
 NT2 ytterbium 164  
 NT2 ytterbium 166  
 NT2 ytterbium 168  
 NT2 ytterbium 170  
 NT2 ytterbium 172  
 NT2 ytterbium 174  
 NT2 ytterbium 176  
 NT2 ytterbium 178  
 NT2 ytterbium 180  
 NT2 zinc 54  
 NT2 zinc 56  
 NT2 zinc 58  
 NT2 zinc 60  
 NT2 zinc 62  
 NT2 zinc 64  
 NT2 zinc 66  
 NT2 zinc 68  
 NT2 zinc 70  
 NT2 zinc 72  
 NT2 zinc 74  
 NT2 zinc 76  
 NT2 zinc 78  
 NT2 zinc 80  
 NT2 zinc 82  
 NT2 zirconium 100  
 NT2 zirconium 102  
 NT2 zirconium 104  
 NT2 zirconium 106  
 NT2 zirconium 108  
 NT2 zirconium 110  
 NT2 zirconium 78  
 NT2 zirconium 80  
 NT2 zirconium 82  
 NT2 zirconium 84  
 NT2 zirconium 86  
 NT2 zirconium 88  
 NT2 zirconium 90  
 NT2 zirconium 92  
 NT2 zirconium 94  
 NT2 zirconium 96  
 NT2 zirconium 98  
 NT1 even-odd nuclei  
 NT2 argon 31  
 NT2 argon 33  
 NT2 argon 35  
 NT2 argon 37  
 NT2 argon 39  
 NT2 argon 41  
 NT2 argon 43  
 NT2 argon 45  
 NT2 argon 47  
 NT2 argon 49  
 NT2 argon 51  
 NT2 argon 53  
 NT2 barium 115  
 NT2 barium 117  
 NT2 barium 119  
 NT2 barium 121  
 NT2 barium 123  
 NT2 barium 125  
 NT2 barium 127  
 NT2 barium 129  
 NT2 barium 131  
 NT2 barium 133  
 NT2 barium 135  
 NT2 barium 137  
 NT2 barium 139  
 NT2 barium 141  
 NT2 barium 143  
 NT2 barium 145  
 NT2 barium 147  
 NT2 barium 149  
 NT2 barium 151

NT2 barium 153  
 NT2 beryllium 11  
 NT2 beryllium 13  
 NT2 beryllium 15  
 NT2 beryllium 5  
 NT2 beryllium 7  
 NT2 beryllium 9  
 NT2 cadmium 101  
 NT2 cadmium 103  
 NT2 cadmium 105  
 NT2 cadmium 107  
 NT2 cadmium 109  
 NT2 cadmium 111  
 NT2 cadmium 113  
 NT2 cadmium 115  
 NT2 cadmium 117  
 NT2 cadmium 119  
 NT2 cadmium 121  
 NT2 cadmium 123  
 NT2 cadmium 125  
 NT2 cadmium 127  
 NT2 cadmium 129  
 NT2 cadmium 131  
 NT2 cadmium 95  
 NT2 cadmium 97  
 NT2 cadmium 99  
 NT2 calcium 35  
 NT2 calcium 37  
 NT2 calcium 39  
 NT2 calcium 41  
 NT2 calcium 43  
 NT2 calcium 45  
 NT2 calcium 47  
 NT2 calcium 49  
 NT2 calcium 51  
 NT2 calcium 53  
 NT2 calcium 55  
 NT2 calcium 57  
 NT2 californium 237  
 NT2 californium 239  
 NT2 californium 241  
 NT2 californium 243  
 NT2 californium 245  
 NT2 californium 247  
 NT2 californium 249  
 NT2 californium 251  
 NT2 californium 253  
 NT2 californium 255  
 NT2 carbon 11  
 NT2 carbon 13  
 NT2 carbon 15  
 NT2 carbon 17  
 NT2 carbon 19  
 NT2 carbon 21  
 NT2 carbon 9  
 NT2 cerium 119  
 NT2 cerium 121  
 NT2 cerium 123  
 NT2 cerium 125  
 NT2 cerium 127  
 NT2 cerium 129  
 NT2 cerium 131  
 NT2 cerium 133  
 NT2 cerium 135  
 NT2 cerium 137  
 NT2 cerium 139  
 NT2 cerium 141  
 NT2 cerium 143  
 NT2 cerium 145  
 NT2 cerium 147  
 NT2 cerium 149  
 NT2 cerium 151  
 NT2 cerium 153  
 NT2 cerium 155  
 NT2 cerium 157  
 NT2 chromium 43  
 NT2 chromium 45  
 NT2 chromium 47  
 NT2 chromium 49

NT2	chromium 51	NT2	gadolinium 143	NT2	krypton 77
NT2	chromium 53	NT2	gadolinium 145	NT2	krypton 79
NT2	chromium 55	NT2	gadolinium 147	NT2	krypton 81
NT2	chromium 57	NT2	gadolinium 149	NT2	krypton 83
NT2	chromium 59	NT2	gadolinium 151	NT2	krypton 85
NT2	chromium 61	NT2	gadolinium 153	NT2	krypton 87
NT2	chromium 63	NT2	gadolinium 155	NT2	krypton 89
NT2	chromium 65	NT2	gadolinium 157	NT2	krypton 91
NT2	chromium 67	NT2	gadolinium 159	NT2	krypton 93
NT2	curium 233	NT2	gadolinium 161	NT2	krypton 95
NT2	curium 235	NT2	gadolinium 163	NT2	krypton 97
NT2	curium 237	NT2	gadolinium 165	NT2	krypton 99
NT2	curium 239	NT2	gadolinium 167	NT2	lead 179
NT2	curium 241	NT2	gadolinium 169	NT2	lead 181
NT2	curium 243	NT2	germanium 59	NT2	lead 183
NT2	curium 245	NT2	germanium 61	NT2	lead 185
NT2	curium 247	NT2	germanium 63	NT2	lead 187
NT2	curium 249	NT2	germanium 65	NT2	lead 189
NT2	curium 251	NT2	germanium 67	NT2	lead 191
NT2	darmstadtium 267	NT2	germanium 69	NT2	lead 193
NT2	darmstadtium 269	NT2	germanium 71	NT2	lead 195
NT2	darmstadtium 271	NT2	germanium 73	NT2	lead 197
NT2	darmstadtium 273	NT2	germanium 75	NT2	lead 199
NT2	darmstadtium 279	NT2	germanium 77	NT2	lead 201
NT2	darmstadtium 281	NT2	germanium 79	NT2	lead 203
NT2	dysprosium 139	NT2	germanium 81	NT2	lead 205
NT2	dysprosium 141	NT2	germanium 83	NT2	lead 207
NT2	dysprosium 143	NT2	germanium 85	NT2	lead 209
NT2	dysprosium 145	NT2	germanium 87	NT2	lead 211
NT2	dysprosium 147	NT2	germanium 89	NT2	lead 213
NT2	dysprosium 149	NT2	hafnium 153	NT2	lead 215
NT2	dysprosium 151	NT2	hafnium 155	NT2	magnesium 19
NT2	dysprosium 153	NT2	hafnium 157	NT2	magnesium 21
NT2	dysprosium 155	NT2	hafnium 159	NT2	magnesium 23
NT2	dysprosium 157	NT2	hafnium 161	NT2	magnesium 25
NT2	dysprosium 159	NT2	hafnium 163	NT2	magnesium 27
NT2	dysprosium 161	NT2	hafnium 165	NT2	magnesium 29
NT2	dysprosium 163	NT2	hafnium 167	NT2	magnesium 31
NT2	dysprosium 165	NT2	hafnium 169	NT2	magnesium 33
NT2	dysprosium 167	NT2	hafnium 171	NT2	magnesium 35
NT2	dysprosium 169	NT2	hafnium 173	NT2	magnesium 37
NT2	dysprosium 171	NT2	hafnium 175	NT2	magnesium 39
NT2	dysprosium 173	NT2	hafnium 177	NT2	mercury 171
NT2	element 112 277	NT2	hafnium 179	NT2	mercury 173
NT2	element 112 283	NT2	hafnium 181	NT2	mercury 175
NT2	element 114 285	NT2	hafnium 183	NT2	mercury 177
NT2	element 114 287	NT2	hafnium 185	NT2	mercury 179
NT2	element 114 289	NT2	hafnium 187	NT2	mercury 181
NT2	erbium 143	NT2	hassium 263	NT2	mercury 183
NT2	erbium 145	NT2	hassium 265	NT2	mercury 185
NT2	erbium 147	NT2	hassium 267	NT2	mercury 187
NT2	erbium 149	NT2	hassium 269	NT2	mercury 189
NT2	erbium 151	NT2	hassium 271	NT2	mercury 191
NT2	erbium 153	NT2	hassium 275	NT2	mercury 193
NT2	erbium 155	NT2	helium 3	NT2	mercury 195
NT2	erbium 157	NT3	helium 3 a	NT2	mercury 197
NT2	erbium 159	NT3	helium 3 al	NT2	mercury 199
NT2	erbium 161	NT3	helium 3 b	NT2	mercury 201
NT2	erbium 163	NT2	helium 5	NT2	mercury 203
NT2	erbium 165	NT2	helium 7	NT2	mercury 205
NT2	erbium 167	NT2	helium 9	NT2	mercury 207
NT2	erbium 169	NT2	iron 45	NT2	mercury 209
NT2	erbium 171	NT2	iron 47	NT2	mercury 211
NT2	erbium 173	NT2	iron 49	NT2	molybdenum 101
NT2	erbium 175	NT2	iron 51	NT2	molybdenum 103
NT2	erbium 177	NT2	iron 53	NT2	molybdenum 105
NT2	fermium 243	NT2	iron 55	NT2	molybdenum 107
NT2	fermium 245	NT2	iron 57	NT2	molybdenum 109
NT2	fermium 247	NT2	iron 59	NT2	molybdenum 111
NT2	fermium 249	NT2	iron 61	NT2	molybdenum 113
NT2	fermium 251	NT2	iron 63	NT2	molybdenum 115
NT2	fermium 253	NT2	iron 65	NT2	molybdenum 83
NT2	fermium 255	NT2	iron 67	NT2	molybdenum 85
NT2	fermium 257	NT2	iron 69	NT2	molybdenum 87
NT2	fermium 259	NT2	iron 71	NT2	molybdenum 89
NT2	gadolinium 135	NT2	krypton 69	NT2	molybdenum 91
NT2	gadolinium 137	NT2	krypton 71	NT2	molybdenum 93
NT2	gadolinium 139	NT2	krypton 73	NT2	molybdenum 95
NT2	gadolinium 141	NT2	krypton 75	NT2	molybdenum 97

NT2	molybdenum 99	NT2	palladium 103	NT2	radium 233
NT2	neodymium 125	NT2	palladium 105	NT2	radon 193
NT2	neodymium 127	NT2	palladium 107	NT2	radon 195
NT2	neodymium 129	NT2	palladium 109	NT2	radon 197
NT2	neodymium 131	NT2	palladium 111	NT2	radon 199
NT2	neodymium 133	NT2	palladium 113	NT2	radon 201
NT2	neodymium 135	NT2	palladium 115	NT2	radon 203
NT2	neodymium 137	NT2	palladium 117	NT2	radon 205
NT2	neodymium 139	NT2	palladium 119	NT2	radon 207
NT2	neodymium 141	NT2	palladium 121	NT2	radon 209
NT2	neodymium 143	NT2	palladium 123	NT2	radon 211
NT2	neodymium 145	NT2	palladium 91	NT2	radon 213
NT2	neodymium 147	NT2	palladium 93	NT2	radon 215
NT2	neodymium 149	NT2	palladium 95	NT2	radon 217
NT2	neodymium 151	NT2	palladium 97	NT2	radon 219
NT2	neodymium 153	NT2	palladium 99	NT2	radon 221
NT2	neodymium 155	NT2	platinum 169	NT2	radon 223
NT2	neodymium 157	NT2	platinum 171	NT2	radon 225
NT2	neodymium 159	NT2	platinum 173	NT2	radon 227
NT2	neodymium 161	NT2	platinum 175	NT2	ruthenium 101
NT2	neon 17	NT2	platinum 177	NT2	ruthenium 103
NT2	neon 19	NT2	platinum 179	NT2	ruthenium 105
NT2	neon 21	NT2	platinum 181	NT2	ruthenium 107
NT2	neon 23	NT2	platinum 183	NT2	ruthenium 109
NT2	neon 25	NT2	platinum 185	NT2	ruthenium 111
NT2	neon 27	NT2	platinum 187	NT2	ruthenium 113
NT2	neon 29	NT2	platinum 189	NT2	ruthenium 115
NT2	neon 31	NT2	platinum 191	NT2	ruthenium 117
NT2	neon 33	NT2	platinum 193	NT2	ruthenium 119
NT2	nickel 49	NT2	platinum 195	NT2	ruthenium 87
NT2	nickel 51	NT2	platinum 197	NT2	ruthenium 89
NT2	nickel 53	NT2	platinum 199	NT2	ruthenium 91
NT2	nickel 55	NT2	platinum 201	NT2	ruthenium 93
NT2	nickel 57	NT2	platinum 203	NT2	ruthenium 95
NT2	nickel 59	NT2	platinum 205	NT2	ruthenium 97
NT2	nickel 61	NT2	platinum 207	NT2	ruthenium 99
NT2	nickel 63	NT2	plutonium 229	NT2	rutherfordium 253
NT2	nickel 65	NT2	plutonium 231	NT2	rutherfordium 255
NT2	nickel 67	NT2	plutonium 233	NT2	rutherfordium 257
NT2	nickel 69	NT2	plutonium 235	NT2	rutherfordium 259
NT2	nickel 71	NT2	plutonium 237	NT2	rutherfordium 261
NT2	nickel 73	NT2	plutonium 239	NT2	rutherfordium 263
NT2	nickel 75	NT2	plutonium 241	NT2	rutherfordium 265
NT2	nickel 77	NT2	plutonium 243	NT2	rutherfordium 267
NT2	nobelium 251	NT2	plutonium 245	NT2	samarium 129
NT2	nobelium 253	NT2	plutonium 247	NT2	samarium 131
NT2	nobelium 255	NT2	polonium 187	NT2	samarium 133
NT2	nobelium 257	NT2	polonium 189	NT2	samarium 135
NT2	nobelium 259	NT2	polonium 191	NT2	samarium 137
NT2	nobelium 261	NT2	polonium 193	NT2	samarium 139
NT2	nobelium 263	NT2	polonium 195	NT2	samarium 141
NT2	osmium 163	NT2	polonium 197	NT2	samarium 143
NT2	osmium 165	NT2	polonium 199	NT2	samarium 145
NT2	osmium 167	NT2	polonium 201	NT2	samarium 147
NT2	osmium 169	NT2	polonium 203	NT2	samarium 149
NT2	osmium 171	NT2	polonium 205	NT2	samarium 151
NT2	osmium 173	NT2	polonium 207	NT2	samarium 153
NT2	osmium 175	NT2	polonium 209	NT2	samarium 155
NT2	osmium 177	NT2	polonium 211	NT2	samarium 157
NT2	osmium 179	NT2	polonium 213	NT2	samarium 159
NT2	osmium 181	NT2	polonium 215	NT2	samarium 161
NT2	osmium 183	NT2	polonium 217	NT2	samarium 163
NT2	osmium 185	NT2	polonium 219	NT2	samarium 165
NT2	osmium 187	NT2	radium 201	NT2	seaborgium 259
NT2	osmium 189	NT2	radium 203	NT2	seaborgium 261
NT2	osmium 191	NT2	radium 205	NT2	seaborgium 263
NT2	osmium 193	NT2	radium 207	NT2	seaborgium 265
NT2	osmium 195	NT2	radium 209	NT2	seaborgium 271
NT2	osmium 197	NT2	radium 211	NT2	seaborgium 273
NT2	osmium 199	NT2	radium 213	NT2	selenium 65
NT2	oxygen 13	NT2	radium 215	NT2	selenium 67
NT2	oxygen 15	NT2	radium 217	NT2	selenium 69
NT2	oxygen 17	NT2	radium 219	NT2	selenium 71
NT2	oxygen 19	NT2	radium 221	NT2	selenium 73
NT2	oxygen 21	NT2	radium 223	NT2	selenium 75
NT2	oxygen 23	NT2	radium 225	NT2	selenium 77
NT2	oxygen 25	NT2	radium 227	NT2	selenium 79
NT2	oxygen 27	NT2	radium 229	NT2	selenium 81
NT2	palladium 101	NT2	radium 231	NT2	selenium 83



NT2	selenium 85	NT2	tin 101	NT2	xenon 139
NT2	selenium 87	NT2	tin 103	NT2	xenon 141
NT2	selenium 89	NT2	tin 105	NT2	xenon 143
NT2	selenium 91	NT2	tin 107	NT2	xenon 145
NT2	silicon 23	NT2	tin 109	NT2	xenon 147
NT2	silicon 25	NT2	tin 111	NT2	ytterbium 149
NT2	silicon 27	NT2	tin 113	NT2	ytterbium 151
NT2	silicon 29	NT2	tin 115	NT2	ytterbium 153
NT2	silicon 31	NT2	tin 117	NT2	ytterbium 155
NT2	silicon 33	NT2	tin 119	NT2	ytterbium 157
NT2	silicon 35	NT2	tin 121	NT2	ytterbium 159
NT2	silicon 37	NT2	tin 123	NT2	ytterbium 161
NT2	silicon 39	NT2	tin 125	NT2	ytterbium 163
NT2	silicon 41	NT2	tin 127	NT2	ytterbium 165
NT2	silicon 43	NT2	tin 129	NT2	ytterbium 167
NT2	strontium 101	NT2	tin 131	NT2	ytterbium 169
NT2	strontium 103	NT2	tin 133	NT2	ytterbium 171
NT2	strontium 105	NT2	tin 135	NT2	ytterbium 173
NT2	strontium 73	NT2	tin 137	NT2	ytterbium 175
NT2	strontium 75	NT2	tin 99	NT2	ytterbium 177
NT2	strontium 77	NT2	titanium 39	NT2	ytterbium 179
NT2	strontium 79	NT2	titanium 41	NT2	ytterbium 181
NT2	strontium 81	NT2	titanium 43	NT2	zinc 55
NT2	strontium 83	NT2	titanium 45	NT2	zinc 57
NT2	strontium 85	NT2	titanium 47	NT2	zinc 59
NT2	strontium 87	NT2	titanium 49	NT2	zinc 61
NT2	strontium 89	NT2	titanium 51	NT2	zinc 63
NT2	strontium 91	NT2	titanium 53	NT2	zinc 65
NT2	strontium 93	NT2	titanium 55	NT2	zinc 67
NT2	strontium 95	NT2	titanium 57	NT2	zinc 69
NT2	strontium 97	NT2	titanium 59	NT2	zinc 71
NT2	strontium 99	NT2	titanium 61	NT2	zinc 73
NT2	sulfur 27	NT2	titanium 63	NT2	zinc 75
NT2	sulfur 29	NT2	tungsten 159	NT2	zinc 77
NT2	sulfur 31	NT2	tungsten 161	NT2	zinc 79
NT2	sulfur 33	NT2	tungsten 163	NT2	zinc 81
NT2	sulfur 35	NT2	tungsten 165	NT2	zinc 83
NT2	sulfur 37	NT2	tungsten 167	NT2	zirconium 101
NT2	sulfur 39	NT2	tungsten 169	NT2	zirconium 103
NT2	sulfur 41	NT2	tungsten 171	NT2	zirconium 105
NT2	sulfur 43	NT2	tungsten 173	NT2	zirconium 107
NT2	sulfur 45	NT2	tungsten 175	NT2	zirconium 109
NT2	sulfur 47	NT2	tungsten 177	NT2	zirconium 79
NT2	sulfur 49	NT2	tungsten 179	NT2	zirconium 81
NT2	tellurium 105	NT2	tungsten 181	NT2	zirconium 83
NT2	tellurium 107	NT2	tungsten 183	NT2	zirconium 85
NT2	tellurium 109	NT2	tungsten 185	NT2	zirconium 87
NT2	tellurium 111	NT2	tungsten 187	NT2	zirconium 89
NT2	tellurium 113	NT2	tungsten 189	NT2	zirconium 91
NT2	tellurium 115	NT2	tungsten 191	NT2	zirconium 93
NT2	tellurium 117	NT2	uranium 217	NT2	zirconium 95
NT2	tellurium 119	NT2	uranium 219	NT2	zirconium 97
NT2	tellurium 121	NT2	uranium 221	NT2	zirconium 99
NT2	tellurium 123	NT2	uranium 223	NT1	heavy nuclei
NT2	tellurium 125	NT2	uranium 225	NT2	actinide nuclei
NT2	tellurium 127	NT2	uranium 227	NT3	actinium 206
NT2	tellurium 129	NT2	uranium 229	NT3	actinium 207
NT2	tellurium 131	NT2	uranium 231	NT3	actinium 208
NT2	tellurium 133	NT2	uranium 233	NT3	actinium 209
NT2	tellurium 135	NT2	uranium 235	NT3	actinium 210
NT2	tellurium 137	NT2	uranium 237	NT3	actinium 211
NT2	tellurium 139	NT2	uranium 239	NT3	actinium 212
NT2	tellurium 141	NT2	uranium 241	NT3	actinium 213
NT2	thorium 209	NT2	xenon 109	NT3	actinium 214
NT2	thorium 211	NT2	xenon 111	NT3	actinium 215
NT2	thorium 213	NT2	xenon 113	NT3	actinium 216
NT2	thorium 215	NT2	xenon 115	NT3	actinium 217
NT2	thorium 217	NT2	xenon 117	NT3	actinium 218
NT2	thorium 219	NT2	xenon 119	NT3	actinium 219
NT2	thorium 221	NT2	xenon 121	NT3	actinium 220
NT2	thorium 222	NT2	xenon 123	NT3	actinium 221
NT2	thorium 223	NT2	xenon 125	NT3	actinium 222
NT2	thorium 225	NT2	xenon 127	NT3	actinium 223
NT2	thorium 227	NT2	xenon 129	NT3	actinium 224
NT2	thorium 229	NT2	xenon 131	NT3	actinium 225
NT2	thorium 231	NT2	xenon 132	NT3	actinium 226
NT2	thorium 233	NT2	xenon 133	NT3	actinium 227
NT2	thorium 235	NT2	xenon 135	NT3	actinium 228
NT2	thorium 237	NT2	xenon 137	NT3	actinium 229

NT3	actinium 230	NT3	curium 244	NT3	mendelevium 261
NT3	actinium 231	NT3	curium 245	NT3	mendelevium 262
NT3	actinium 232	NT3	curium 246	NT3	neptunium 225
NT3	actinium 233	NT3	curium 247	NT3	neptunium 226
NT3	actinium 234	NT3	curium 248	NT3	neptunium 227
NT3	actinium 235	NT3	curium 249	NT3	neptunium 228
NT3	actinium 236	NT3	curium 250	NT3	neptunium 229
NT3	americium 231	NT3	curium 251	NT3	neptunium 230
NT3	americium 232	NT3	curium 252	NT3	neptunium 231
NT3	americium 233	NT3	einsteinium 240	NT3	neptunium 232
NT3	americium 234	NT3	einsteinium 241	NT3	neptunium 233
NT3	americium 235	NT3	einsteinium 242	NT3	neptunium 234
NT3	americium 236	NT3	einsteinium 243	NT3	neptunium 235
NT3	americium 237	NT3	einsteinium 244	NT3	neptunium 236
NT3	americium 238	NT3	einsteinium 245	NT3	neptunium 237
NT3	americium 239	NT3	einsteinium 246	NT3	neptunium 238
NT3	americium 240	NT3	einsteinium 247	NT3	neptunium 239
NT3	americium 241	NT3	einsteinium 248	NT3	neptunium 240
NT3	americium 242	NT3	einsteinium 249	NT3	neptunium 241
NT3	americium 243	NT3	einsteinium 250	NT3	neptunium 242
NT3	americium 244	NT3	einsteinium 251	NT3	neptunium 243
NT3	americium 245	NT3	einsteinium 252	NT3	neptunium 244
NT3	americium 246	NT3	einsteinium 253	NT3	nobelium 248
NT3	americium 247	NT3	einsteinium 254	NT3	nobelium 250
NT3	americium 248	NT3	einsteinium 255	NT3	nobelium 251
NT3	americium 249	NT3	einsteinium 256	NT3	nobelium 252
NT3	berkelium 235	NT3	einsteinium 257	NT3	nobelium 253
NT3	berkelium 236	NT3	einsteinium 258	NT3	nobelium 254
NT3	berkelium 237	NT3	fermium 242	NT3	nobelium 255
NT3	berkelium 238	NT3	fermium 243	NT3	nobelium 256
NT3	berkelium 239	NT3	fermium 244	NT3	nobelium 257
NT3	berkelium 240	NT3	fermium 245	NT3	nobelium 258
NT3	berkelium 241	NT3	fermium 246	NT3	nobelium 259
NT3	berkelium 242	NT3	fermium 247	NT3	nobelium 260
NT3	berkelium 243	NT3	fermium 248	NT3	nobelium 261
NT3	berkelium 244	NT3	fermium 249	NT3	nobelium 262
NT3	berkelium 245	NT3	fermium 250	NT3	nobelium 263
NT3	berkelium 246	NT3	fermium 251	NT3	nobelium 264
NT3	berkelium 247	NT3	fermium 252	NT3	plutonium 228
NT3	berkelium 248	NT3	fermium 253	NT3	plutonium 229
NT3	berkelium 249	NT3	fermium 254	NT3	plutonium 230
NT3	berkelium 250	NT3	fermium 255	NT3	plutonium 231
NT3	berkelium 251	NT3	fermium 256	NT3	plutonium 232
NT3	berkelium 252	NT3	fermium 257	NT3	plutonium 233
NT3	berkelium 253	NT3	fermium 258	NT3	plutonium 234
NT3	berkelium 254	NT3	fermium 259	NT3	plutonium 235
NT3	californium 236	NT3	fermium 260	NT3	plutonium 236
NT3	californium 237	NT3	lawrencium 251	NT3	plutonium 237
NT3	californium 238	NT3	lawrencium 252	NT3	plutonium 238
NT3	californium 239	NT3	lawrencium 253	NT3	plutonium 239
NT3	californium 240	NT3	lawrencium 254	NT3	plutonium 240
NT3	californium 241	NT3	lawrencium 255	NT3	plutonium 241
NT3	californium 242	NT3	lawrencium 256	NT3	plutonium 242
NT3	californium 243	NT3	lawrencium 257	NT3	plutonium 243
NT3	californium 244	NT3	lawrencium 258	NT3	plutonium 244
NT3	californium 245	NT3	lawrencium 259	NT3	plutonium 245
NT3	californium 246	NT3	lawrencium 260	NT3	plutonium 246
NT3	californium 247	NT3	lawrencium 261	NT3	plutonium 247
NT3	californium 248	NT3	lawrencium 262	NT3	plutonium 248
NT3	californium 249	NT3	lawrencium 263	NT3	plutonium 250
NT3	californium 250	NT3	lawrencium 264	NT3	protactinium 212
NT3	californium 251	NT3	lawrencium 265	NT3	protactinium 213
NT3	californium 252	NT3	lawrencium 266	NT3	protactinium 214
NT3	californium 253	NT3	mendelevium 245	NT3	protactinium 215
NT3	californium 254	NT3	mendelevium 246	NT3	protactinium 216
NT3	californium 255	NT3	mendelevium 247	NT3	protactinium 217
NT3	californium 256	NT3	mendelevium 248	NT3	protactinium 218
NT3	curium 232	NT3	mendelevium 249	NT3	protactinium 219
NT3	curium 233	NT3	mendelevium 250	NT3	protactinium 220
NT3	curium 234	NT3	mendelevium 251	NT3	protactinium 221
NT3	curium 235	NT3	mendelevium 252	NT3	protactinium 222
NT3	curium 236	NT3	mendelevium 253	NT3	protactinium 223
NT3	curium 237	NT3	mendelevium 254	NT3	protactinium 224
NT3	curium 238	NT3	mendelevium 255	NT3	protactinium 225
NT3	curium 239	NT3	mendelevium 256	NT3	protactinium 226
NT3	curium 240	NT3	mendelevium 257	NT3	protactinium 227
NT3	curium 241	NT3	mendelevium 258	NT3	protactinium 228
NT3	curium 242	NT3	mendelevium 259	NT3	protactinium 229
NT3	curium 243	NT3	mendelevium 260	NT3	protactinium 230

NT3	protactinium 231	NT2	astatine 203	NT2	dubnium 257
NT3	protactinium 232	NT2	astatine 204	NT2	dubnium 258
NT3	protactinium 233	NT2	astatine 205	NT2	dubnium 259
NT3	protactinium 234	NT2	astatine 206	NT2	dubnium 260
NT3	protactinium 235	NT2	astatine 207	NT2	dubnium 261
NT3	protactinium 236	NT2	astatine 208	NT2	dubnium 262
NT3	protactinium 237	NT2	astatine 209	NT2	dubnium 263
NT3	protactinium 238	NT2	astatine 210	NT2	dubnium 264
NT3	protactinium 239	NT2	astatine 211	NT2	dubnium 265
NT3	protactinium 240	NT2	astatine 212	NT2	dubnium 266
NT3	thorium 208	NT2	astatine 213	NT2	dubnium 267
NT3	thorium 209	NT2	astatine 214	NT2	dubnium 268
NT3	thorium 210	NT2	astatine 215	NT2	dubnium 269
NT3	thorium 211	NT2	astatine 216	NT2	element 112 277
NT3	thorium 212	NT2	astatine 217	NT2	element 112 283
NT3	thorium 213	NT2	astatine 218	NT2	element 113 278
NT3	thorium 214	NT2	astatine 219	NT2	element 113 283
NT3	thorium 215	NT2	astatine 220	NT2	element 113 284
NT3	thorium 216	NT2	astatine 221	NT2	element 114 285
NT3	thorium 217	NT2	astatine 222	NT2	element 114 286
NT3	thorium 218	NT2	astatine 223	NT2	element 114 287
NT3	thorium 219	NT2	bismuth 184	NT2	element 114 288
NT3	thorium 220	NT2	bismuth 185	NT2	element 114 289
NT3	thorium 221	NT2	bismuth 186	NT2	element 115 287
NT3	thorium 222	NT2	bismuth 187	NT2	element 115 288
NT3	thorium 223	NT2	bismuth 188	NT2	francium 199
NT3	thorium 224	NT2	bismuth 189	NT2	francium 200
NT3	thorium 225	NT2	bismuth 190	NT2	francium 201
NT3	thorium 226	NT2	bismuth 191	NT2	francium 202
NT3	thorium 227	NT2	bismuth 192	NT2	francium 203
NT3	thorium 228	NT2	bismuth 193	NT2	francium 204
NT3	thorium 229	NT2	bismuth 194	NT2	francium 205
NT3	thorium 230	NT2	bismuth 195	NT2	francium 206
NT3	thorium 231	NT2	bismuth 196	NT2	francium 207
NT3	thorium 232	NT2	bismuth 197	NT2	francium 208
NT3	thorium 233	NT2	bismuth 198	NT2	francium 209
NT3	thorium 234	NT2	bismuth 199	NT2	francium 210
NT3	thorium 235	NT2	bismuth 200	NT2	francium 211
NT3	thorium 236	NT2	bismuth 201	NT2	francium 212
NT3	thorium 237	NT2	bismuth 202	NT2	francium 213
NT3	thorium 238	NT2	bismuth 203	NT2	francium 214
NT3	uranium 217	NT2	bismuth 204	NT2	francium 215
NT3	uranium 218	NT2	bismuth 205	NT2	francium 216
NT3	uranium 219	NT2	bismuth 206	NT2	francium 217
NT3	uranium 220	NT2	bismuth 207	NT2	francium 218
NT3	uranium 221	NT2	bismuth 208	NT2	francium 219
NT3	uranium 222	NT2	bismuth 209	NT2	francium 220
NT3	uranium 223	NT2	bismuth 210	NT2	francium 221
NT3	uranium 224	NT2	bismuth 211	NT2	francium 222
NT3	uranium 225	NT2	bismuth 212	NT2	francium 223
NT3	uranium 226	NT2	bismuth 213	NT2	francium 224
NT3	uranium 227	NT2	bismuth 214	NT2	francium 225
NT3	uranium 228	NT2	bismuth 215	NT2	francium 226
NT3	uranium 229	NT2	bismuth 216	NT2	francium 227
NT3	uranium 230	NT2	bismuth 217	NT2	francium 228
NT3	uranium 231	NT2	bismuth 218	NT2	francium 229
NT3	uranium 232	NT2	bohrium 260	NT2	francium 230
NT3	uranium 233	NT2	bohrium 261	NT2	francium 231
NT3	uranium 234	NT2	bohrium 262	NT2	francium 232
NT3	uranium 235	NT2	bohrium 263	NT2	gold 181
NT3	uranium 236	NT2	bohrium 264	NT2	gold 182
NT3	uranium 237	NT2	bohrium 265	NT2	gold 183
NT3	uranium 238	NT2	bohrium 266	NT2	gold 184
NT3	uranium 239	NT2	bohrium 267	NT2	gold 185
NT3	uranium 240	NT2	bohrium 271	NT2	gold 186
NT3	uranium 241	NT2	bohrium 272	NT2	gold 187
NT3	uranium 242	NT2	bohrium 273	NT2	gold 188
NT2	astatine 191	NT2	bohrium 274	NT2	gold 189
NT2	astatine 192	NT2	bohrium 275	NT2	gold 190
NT2	astatine 193	NT2	darmstadtium 267	NT2	gold 191
NT2	astatine 194	NT2	darmstadtium 269	NT2	gold 192
NT2	astatine 195	NT2	darmstadtium 270	NT2	gold 193
NT2	astatine 196	NT2	darmstadtium 271	NT2	gold 194
NT2	astatine 197	NT2	darmstadtium 272	NT2	gold 195
NT2	astatine 198	NT2	darmstadtium 273	NT2	gold 196
NT2	astatine 199	NT2	darmstadtium 279	NT2	gold 197
NT2	astatine 200	NT2	darmstadtium 281	NT2	gold 198
NT2	astatine 201	NT2	dubnium 255	NT2	gold 199
NT2	astatine 202	NT2	dubnium 256	NT2	gold 200

---

NT2	gold 201	NT2	lead 216	NT2	platinum 192
NT2	gold 202	NT2	lutetium 181	NT2	platinum 193
NT2	gold 203	NT2	lutetium 182	NT2	platinum 194
NT2	gold 204	NT2	lutetium 183	NT2	platinum 195
NT2	gold 205	NT2	lutetium 184	NT2	platinum 196
NT2	hafnium 181	NT2	lutetium 187	NT2	platinum 197
NT2	hafnium 182	NT2	meitnerium 265	NT2	platinum 198
NT2	hafnium 183	NT2	meitnerium 266	NT2	platinum 199
NT2	hafnium 184	NT2	meitnerium 267	NT2	platinum 200
NT2	hafnium 185	NT2	meitnerium 268	NT2	platinum 201
NT2	hafnium 186	NT2	meitnerium 270	NT2	platinum 202
NT2	hafnium 187	NT2	meitnerium 271	NT2	platinum 203
NT2	hafnium 188	NT2	meitnerium 272	NT2	platinum 204
NT2	hassium 263	NT2	meitnerium 273	NT2	platinum 205
NT2	hassium 264	NT2	meitnerium 274	NT2	platinum 206
NT2	hassium 265	NT2	meitnerium 275	NT2	platinum 207
NT2	hassium 266	NT2	meitnerium 276	NT2	platinum 208
NT2	hassium 267	NT2	meitnerium 279	NT2	polonium 186
NT2	hassium 269	NT2	mercury 181	NT2	polonium 187
NT2	hassium 270	NT2	mercury 182	NT2	polonium 188
NT2	hassium 271	NT2	mercury 183	NT2	polonium 189
NT2	hassium 272	NT2	mercury 184	NT2	polonium 190
NT2	hassium 274	NT2	mercury 185	NT2	polonium 191
NT2	hassium 275	NT2	mercury 186	NT2	polonium 192
NT2	hassium 276	NT2	mercury 187	NT2	polonium 193
NT2	iridium 181	NT2	mercury 188	NT2	polonium 194
NT2	iridium 182	NT2	mercury 189	NT2	polonium 195
NT2	iridium 183	NT2	mercury 190	NT2	polonium 196
NT2	iridium 184	NT2	mercury 191	NT2	polonium 197
NT2	iridium 185	NT2	mercury 192	NT2	polonium 198
NT2	iridium 186	NT2	mercury 193	NT2	polonium 199
NT2	iridium 187	NT2	mercury 194	NT2	polonium 200
NT2	iridium 188	NT2	mercury 195	NT2	polonium 201
NT2	iridium 189	NT2	mercury 196	NT2	polonium 202
NT2	iridium 190	NT2	mercury 197	NT2	polonium 203
NT2	iridium 191	NT2	mercury 198	NT2	polonium 204
NT2	iridium 192	NT2	mercury 199	NT2	polonium 205
NT2	iridium 193	NT2	mercury 200	NT2	polonium 206
NT2	iridium 194	NT2	mercury 201	NT2	polonium 207
NT2	iridium 195	NT2	mercury 202	NT2	polonium 208
NT2	iridium 196	NT2	mercury 203	NT2	polonium 209
NT2	iridium 197	NT2	mercury 204	NT2	polonium 210
NT2	iridium 198	NT2	mercury 205	NT2	polonium 211
NT2	iridium 199	NT2	mercury 206	NT2	polonium 212
NT2	lead 181	NT2	mercury 207	NT2	polonium 213
NT2	lead 182	NT2	mercury 208	NT2	polonium 214
NT2	lead 183	NT2	mercury 209	NT2	polonium 215
NT2	lead 184	NT2	mercury 210	NT2	polonium 216
NT2	lead 185	NT2	mercury 211	NT2	polonium 217
NT2	lead 186	NT2	mercury 212	NT2	polonium 218
NT2	lead 187	NT2	osmium 181	NT2	radium 201
NT2	lead 188	NT2	osmium 182	NT2	radium 202
NT2	lead 189	NT2	osmium 183	NT2	radium 203
NT2	lead 190	NT2	osmium 184	NT2	radium 204
NT2	lead 191	NT2	osmium 185	NT2	radium 205
NT2	lead 192	NT2	osmium 186	NT2	radium 206
NT2	lead 193	NT2	osmium 187	NT2	radium 207
NT2	lead 194	NT2	osmium 188	NT2	radium 208
NT2	lead 195	NT2	osmium 189	NT2	radium 209
NT2	lead 196	NT2	osmium 190	NT2	radium 210
NT2	lead 197	NT2	osmium 191	NT2	radium 211
NT2	lead 198	NT2	osmium 192	NT2	radium 212
NT2	lead 199	NT2	osmium 193	NT2	radium 213
NT2	lead 200	NT2	osmium 194	NT2	radium 214
NT2	lead 201	NT2	osmium 195	NT2	radium 215
NT2	lead 202	NT2	osmium 196	NT2	radium 216
NT2	lead 203	NT2	osmium 197	NT2	radium 217
NT2	lead 204	NT2	osmium 199	NT2	radium 218
NT2	lead 205	NT2	platinum 181	NT2	radium 219
NT2	lead 206	NT2	platinum 182	NT2	radium 220
NT2	lead 207	NT2	platinum 183	NT2	radium 221
NT2	lead 208	NT2	platinum 184	NT2	radium 222
NT2	lead 209	NT2	platinum 185	NT2	radium 223
NT2	lead 210	NT2	platinum 186	NT2	radium 224
NT2	lead 211	NT2	platinum 187	NT2	radium 225
NT2	lead 212	NT2	platinum 188	NT2	radium 226
NT2	lead 213	NT2	platinum 189	NT2	radium 227
NT2	lead 214	NT2	platinum 190	NT2	radium 228
NT2	lead 215	NT2	platinum 191	NT2	radium 229

NT2	radium 230	NT2	seaborgium 261	NT2	antimony 112
NT2	radium 231	NT2	seaborgium 262	NT2	antimony 113
NT2	radium 232	NT2	seaborgium 263	NT2	antimony 114
NT2	radium 233	NT2	seaborgium 264	NT2	antimony 115
NT2	radium 234	NT2	seaborgium 265	NT2	antimony 116
NT2	radon 193	NT2	seaborgium 266	NT2	antimony 117
NT2	radon 194	NT2	seaborgium 268	NT2	antimony 118
NT2	radon 195	NT2	seaborgium 270	NT2	antimony 119
NT2	radon 196	NT2	seaborgium 271	NT2	antimony 120
NT2	radon 197	NT2	seaborgium 272	NT2	antimony 121
NT2	radon 198	NT2	seaborgium 273	NT2	antimony 122
NT2	radon 199	NT2	tantalum 181	NT2	antimony 123
NT2	radon 200	NT2	tantalum 182	NT2	antimony 124
NT2	radon 201	NT2	tantalum 183	NT2	antimony 125
NT2	radon 202	NT2	tantalum 184	NT2	antimony 126
NT2	radon 203	NT2	tantalum 185	NT2	antimony 127
NT2	radon 204	NT2	tantalum 186	NT2	antimony 128
NT2	radon 205	NT2	tantalum 187	NT2	antimony 129
NT2	radon 206	NT2	tantalum 188	NT2	antimony 130
NT2	radon 207	NT2	tantalum 189	NT2	antimony 131
NT2	radon 208	NT2	tantalum 190	NT2	antimony 132
NT2	radon 209	NT2	thallium 181	NT2	antimony 133
NT2	radon 210	NT2	thallium 182	NT2	antimony 134
NT2	radon 211	NT2	thallium 183	NT2	antimony 135
NT2	radon 212	NT2	thallium 184	NT2	antimony 136
NT2	radon 213	NT2	thallium 185	NT2	antimony 137
NT2	radon 214	NT2	thallium 186	NT2	antimony 138
NT2	radon 215	NT2	thallium 187	NT2	antimony 139
NT2	radon 216	NT2	thallium 188	NT2	argon 41
NT2	radon 217	NT2	thallium 189	NT2	argon 42
NT2	radon 218	NT2	thallium 190	NT2	argon 43
NT2	radon 219	NT2	thallium 191	NT2	argon 44
NT2	radon 220	NT2	thallium 192	NT2	argon 45
NT2	radon 221	NT2	thallium 193	NT2	argon 46
NT2	radon 222	NT2	thallium 194	NT2	argon 47
NT2	radon 223	NT2	thallium 195	NT2	argon 48
NT2	radon 224	NT2	thallium 196	NT2	argon 49
NT2	radon 225	NT2	thallium 197	NT2	argon 50
NT2	radon 226	NT2	thallium 198	NT2	argon 51
NT2	radon 227	NT2	thallium 199	NT2	argon 52
NT2	radon 228	NT2	thallium 200	NT2	argon 53
NT2	rhennium 181	NT2	thallium 201	NT2	arsenic 60
NT2	rhennium 182	NT2	thallium 202	NT2	arsenic 61
NT2	rhennium 183	NT2	thallium 203	NT2	arsenic 62
NT2	rhennium 184	NT2	thallium 204	NT2	arsenic 63
NT2	rhennium 185	NT2	thallium 205	NT2	arsenic 64
NT2	rhennium 186	NT2	thallium 206	NT2	arsenic 65
NT2	rhennium 187	NT2	thallium 207	NT2	arsenic 66
NT2	rhennium 188	NT2	thallium 208	NT2	arsenic 67
NT2	rhennium 189	NT2	thallium 209	NT2	arsenic 68
NT2	rhennium 190	NT2	thallium 210	NT2	arsenic 69
NT2	rhennium 191	NT2	thallium 211	NT2	arsenic 70
NT2	rhennium 192	NT2	thallium 212	NT2	arsenic 71
NT2	rhennium 193	NT2	tungsten 181	NT2	arsenic 72
NT2	rhennium 194	NT2	tungsten 182	NT2	arsenic 73
NT2	roentgenium 272	NT2	tungsten 183	NT2	arsenic 74
NT2	roentgenium 273	NT2	tungsten 184	NT2	arsenic 75
NT2	roentgenium 274	NT2	tungsten 185	NT2	arsenic 76
NT2	roentgenium 279	NT2	tungsten 186	NT2	arsenic 77
NT2	roentgenium 280	NT2	tungsten 187	NT2	arsenic 78
NT2	rutherfordium 253	NT2	tungsten 188	NT2	arsenic 79
NT2	rutherfordium 254	NT2	tungsten 189	NT2	arsenic 80
NT2	rutherfordium 255	NT2	tungsten 190	NT2	arsenic 81
NT2	rutherfordium 256	NT2	tungsten 191	NT2	arsenic 82
NT2	rutherfordium 257	NT2	tungsten 192	NT2	arsenic 83
NT2	rutherfordium 258	NT1	hot nuclei	NT2	arsenic 84
NT2	rutherfordium 259	NT1	hypernuclei	NT2	arsenic 85
NT2	rutherfordium 260	NT1	intermediate mass nuclei	NT2	arsenic 86
NT2	rutherfordium 261	NT2	aluminium 41	NT2	arsenic 87
NT2	rutherfordium 262	NT2	aluminium 42	NT2	arsenic 88
NT2	rutherfordium 263	NT2	antimony 103	NT2	arsenic 89
NT2	rutherfordium 264	NT2	antimony 104	NT2	arsenic 90
NT2	rutherfordium 265	NT2	antimony 105	NT2	arsenic 91
NT2	rutherfordium 266	NT2	antimony 106	NT2	arsenic 92
NT2	rutherfordium 267	NT2	antimony 107	NT2	barium 114
NT2	rutherfordium 268	NT2	antimony 108	NT2	barium 115
NT2	seaborgium 258	NT2	antimony 109	NT2	barium 116
NT2	seaborgium 259	NT2	antimony 110	NT2	barium 117
NT2	seaborgium 260	NT2	antimony 111	NT2	barium 118

NT2 barium 119  
NT2 barium 120  
NT2 barium 121  
NT2 barium 122  
NT2 barium 123  
NT2 barium 124  
NT2 barium 125  
NT2 barium 126  
NT2 barium 127  
NT2 barium 128  
NT2 barium 129  
NT2 barium 130  
NT2 barium 131  
NT2 barium 132  
NT2 barium 133  
NT2 barium 134  
NT2 barium 135  
NT2 barium 136  
NT2 barium 137  
NT2 barium 138  
NT2 barium 139  
NT2 barium 140  
NT2 barium 141  
NT2 barium 142  
NT2 barium 143  
NT2 barium 144  
NT2 barium 145  
NT2 barium 146  
NT2 barium 147  
NT2 barium 148  
NT2 barium 149  
NT2 barium 150  
NT2 barium 151  
NT2 barium 152  
NT2 barium 153  
NT2 bromine 67  
NT2 bromine 68  
NT2 bromine 69  
NT2 bromine 70  
NT2 bromine 71  
NT2 bromine 72  
NT2 bromine 73  
NT2 bromine 74  
NT2 bromine 75  
NT2 bromine 76  
NT2 bromine 77  
NT2 bromine 78  
NT2 bromine 79  
NT2 bromine 80  
NT2 bromine 81  
NT2 bromine 82  
NT2 bromine 83  
NT2 bromine 84  
NT2 bromine 85  
NT2 bromine 86  
NT2 bromine 87  
NT2 bromine 88  
NT2 bromine 89  
NT2 bromine 90  
NT2 bromine 91  
NT2 bromine 92  
NT2 bromine 93  
NT2 bromine 94  
NT2 bromine 95  
NT2 bromine 96  
NT2 bromine 97  
NT2 cadmium 100  
NT2 cadmium 101  
NT2 cadmium 102  
NT2 cadmium 103  
NT2 cadmium 104  
NT2 cadmium 105  
NT2 cadmium 106  
NT2 cadmium 107  
NT2 cadmium 108  
NT2 cadmium 109  
NT2 cadmium 110  
NT2 cadmium 111  
NT2 cadmium 112

NT2 cadmium 113  
NT2 cadmium 114  
NT2 cadmium 115  
NT2 cadmium 116  
NT2 cadmium 117  
NT2 cadmium 118  
NT2 cadmium 119  
NT2 cadmium 120  
NT2 cadmium 121  
NT2 cadmium 122  
NT2 cadmium 123  
NT2 cadmium 124  
NT2 cadmium 125  
NT2 cadmium 126  
NT2 cadmium 127  
NT2 cadmium 128  
NT2 cadmium 129  
NT2 cadmium 130  
NT2 cadmium 131  
NT2 cadmium 132  
NT2 cadmium 95  
NT2 cadmium 96  
NT2 cadmium 97  
NT2 cadmium 98  
NT2 cadmium 99  
NT2 calcium 41  
NT2 calcium 42  
NT2 calcium 43  
NT2 calcium 44  
NT2 calcium 45  
NT2 calcium 46  
NT2 calcium 47  
NT2 calcium 48  
NT2 calcium 49  
NT2 calcium 50  
NT2 calcium 51  
NT2 calcium 52  
NT2 calcium 53  
NT2 calcium 54  
NT2 calcium 55  
NT2 calcium 56  
NT2 calcium 57  
NT2 calcium 58  
NT2 calcium 60  
NT2 cesium 112  
NT2 cesium 113  
NT2 cesium 114  
NT2 cesium 115  
NT2 cesium 116  
NT2 cesium 117  
NT2 cesium 118  
NT2 cesium 119  
NT2 cesium 120  
NT2 cesium 121  
NT2 cesium 122  
NT2 cesium 123  
NT2 cesium 124  
NT2 cesium 125  
NT2 cesium 126  
NT2 cesium 127  
NT2 cesium 128  
NT2 cesium 129  
NT2 cesium 130  
NT2 cesium 131  
NT2 cesium 132  
NT2 cesium 133  
NT2 cesium 134  
NT2 cesium 135  
NT2 cesium 136  
NT2 cesium 137  
NT2 cesium 138  
NT2 cesium 139  
NT2 cesium 140  
NT2 cesium 141  
NT2 cesium 142  
NT2 cesium 143  
NT2 cesium 144  
NT2 cesium 145  
NT2 cesium 146

NT2 cesium 147  
NT2 cesium 148  
NT2 cesium 149  
NT2 cesium 150  
NT2 cesium 151  
NT2 chlorine 41  
NT2 chlorine 42  
NT2 chlorine 43  
NT2 chlorine 44  
NT2 chlorine 45  
NT2 chlorine 46  
NT2 chlorine 47  
NT2 chlorine 48  
NT2 chlorine 49  
NT2 chlorine 50  
NT2 chlorine 51  
NT2 chromium 42  
NT2 chromium 43  
NT2 chromium 44  
NT2 chromium 45  
NT2 chromium 46  
NT2 chromium 47  
NT2 chromium 48  
NT2 chromium 49  
NT2 chromium 50  
NT2 chromium 51  
NT2 chromium 52  
NT2 chromium 53  
NT2 chromium 54  
NT2 chromium 55  
NT2 chromium 56  
NT2 chromium 57  
NT2 chromium 58  
NT2 chromium 59  
NT2 chromium 60  
NT2 chromium 61  
NT2 chromium 62  
NT2 chromium 63  
NT2 chromium 64  
NT2 chromium 65  
NT2 chromium 66  
NT2 chromium 67  
NT2 cobalt 49  
NT2 cobalt 50  
NT2 cobalt 51  
NT2 cobalt 52  
NT2 cobalt 53  
NT2 cobalt 54  
NT2 cobalt 55  
NT2 cobalt 56  
NT2 cobalt 57  
NT2 cobalt 58  
NT2 cobalt 59  
NT2 cobalt 60  
NT2 cobalt 61  
NT2 cobalt 62  
NT2 cobalt 63  
NT2 cobalt 64  
NT2 cobalt 65  
NT2 cobalt 66  
NT2 cobalt 67  
NT2 cobalt 68  
NT2 cobalt 69  
NT2 cobalt 70  
NT2 cobalt 71  
NT2 cobalt 72  
NT2 cobalt 73  
NT2 cobalt 74  
NT2 cobalt 75  
NT2 copper 52  
NT2 copper 53  
NT2 copper 54  
NT2 copper 55  
NT2 copper 56  
NT2 copper 57  
NT2 copper 58  
NT2 copper 59  
NT2 copper 60  
NT2 copper 61

---

NT2	copper 62	NT2	germanium 86	NT2	indium 135
NT2	copper 63	NT2	germanium 87	NT2	indium 97
NT2	copper 64	NT2	germanium 88	NT2	indium 98
NT2	copper 65	NT2	germanium 89	NT2	indium 99
NT2	copper 66	NT2	gold 169	NT2	iodine 108
NT2	copper 67	NT2	gold 170	NT2	iodine 109
NT2	copper 68	NT2	gold 171	NT2	iodine 110
NT2	copper 69	NT2	gold 172	NT2	iodine 111
NT2	copper 70	NT2	gold 173	NT2	iodine 112
NT2	copper 71	NT2	gold 174	NT2	iodine 113
NT2	copper 72	NT2	gold 175	NT2	iodine 114
NT2	copper 73	NT2	gold 176	NT2	iodine 115
NT2	copper 74	NT2	gold 177	NT2	iodine 116
NT2	copper 75	NT2	gold 178	NT2	iodine 117
NT2	copper 76	NT2	gold 179	NT2	iodine 118
NT2	copper 77	NT2	gold 180	NT2	iodine 119
NT2	copper 78	NT2	hafnium 153	NT2	iodine 120
NT2	copper 79	NT2	hafnium 154	NT2	iodine 121
NT2	copper 80	NT2	hafnium 155	NT2	iodine 122
NT2	erbium 146	NT2	hafnium 156	NT2	iodine 123
NT2	gallium 56	NT2	hafnium 157	NT2	iodine 124
NT2	gallium 57	NT2	hafnium 158	NT2	iodine 125
NT2	gallium 58	NT2	hafnium 159	NT2	iodine 126
NT2	gallium 59	NT2	hafnium 160	NT2	iodine 127
NT2	gallium 60	NT2	hafnium 161	NT2	iodine 128
NT2	gallium 61	NT2	hafnium 162	NT2	iodine 129
NT2	gallium 62	NT2	hafnium 163	NT2	iodine 130
NT2	gallium 63	NT2	hafnium 164	NT2	iodine 131
NT2	gallium 64	NT2	hafnium 165	NT2	iodine 132
NT2	gallium 65	NT2	hafnium 166	NT2	iodine 133
NT2	gallium 66	NT2	hafnium 167	NT2	iodine 134
NT2	gallium 67	NT2	hafnium 168	NT2	iodine 135
NT2	gallium 68	NT2	hafnium 169	NT2	iodine 136
NT2	gallium 69	NT2	hafnium 170	NT2	iodine 137
NT2	gallium 70	NT2	hafnium 171	NT2	iodine 138
NT2	gallium 71	NT2	hafnium 172	NT2	iodine 139
NT2	gallium 72	NT2	hafnium 173	NT2	iodine 140
NT2	gallium 73	NT2	hafnium 174	NT2	iodine 141
NT2	gallium 74	NT2	hafnium 175	NT2	iodine 142
NT2	gallium 75	NT2	hafnium 176	NT2	iodine 143
NT2	gallium 76	NT2	hafnium 177	NT2	iodine 144
NT2	gallium 77	NT2	hafnium 178	NT2	iridium 164
NT2	gallium 78	NT2	hafnium 179	NT2	iridium 165
NT2	gallium 79	NT2	hafnium 180	NT2	iridium 166
NT2	gallium 80	NT2	indium 100	NT2	iridium 167
NT2	gallium 81	NT2	indium 101	NT2	iridium 168
NT2	gallium 82	NT2	indium 102	NT2	iridium 169
NT2	gallium 83	NT2	indium 103	NT2	iridium 170
NT2	gallium 84	NT2	indium 104	NT2	iridium 171
NT2	gallium 85	NT2	indium 105	NT2	iridium 172
NT2	gallium 86	NT2	indium 106	NT2	iridium 173
NT2	germanium 58	NT2	indium 107	NT2	iridium 174
NT2	germanium 59	NT2	indium 108	NT2	iridium 175
NT2	germanium 60	NT2	indium 109	NT2	iridium 176
NT2	germanium 61	NT2	indium 110	NT2	iridium 177
NT2	germanium 62	NT2	indium 111	NT2	iridium 178
NT2	germanium 63	NT2	indium 112	NT2	iridium 179
NT2	germanium 64	NT2	indium 113	NT2	iridium 180
NT2	germanium 65	NT2	indium 114	NT2	iron 45
NT2	germanium 66	NT2	indium 115	NT2	iron 46
NT2	germanium 67	NT2	indium 116	NT2	iron 47
NT2	germanium 68	NT2	indium 117	NT2	iron 48
NT2	germanium 69	NT2	indium 118	NT2	iron 49
NT2	germanium 70	NT2	indium 119	NT2	iron 50
NT2	germanium 71	NT2	indium 120	NT2	iron 51
NT2	germanium 72	NT2	indium 121	NT2	iron 52
NT2	germanium 73	NT2	indium 122	NT2	iron 53
NT2	germanium 74	NT2	indium 123	NT2	iron 54
NT2	germanium 75	NT2	indium 124	NT2	iron 55
NT2	germanium 76	NT2	indium 125	NT2	iron 56
NT2	germanium 77	NT2	indium 126	NT2	iron 57
NT2	germanium 78	NT2	indium 127	NT2	iron 58
NT2	germanium 79	NT2	indium 128	NT2	iron 59
NT2	germanium 80	NT2	indium 129	NT2	iron 60
NT2	germanium 81	NT2	indium 130	NT2	iron 61
NT2	germanium 82	NT2	indium 131	NT2	iron 62
NT2	germanium 83	NT2	indium 132	NT2	iron 63
NT2	germanium 84	NT2	indium 133	NT2	iron 64
NT2	germanium 85	NT2	indium 134	NT2	iron 65

NT2 iron 66	NT2 molybdenum 101	NT2 niobium 83
NT2 iron 67	NT2 molybdenum 102	NT2 niobium 84
NT2 iron 68	NT2 molybdenum 103	NT2 niobium 85
NT2 iron 69	NT2 molybdenum 104	NT2 niobium 86
NT2 iron 70	NT2 molybdenum 105	NT2 niobium 87
NT2 iron 71	NT2 molybdenum 106	NT2 niobium 88
NT2 iron 72	NT2 molybdenum 107	NT2 niobium 89
NT2 krypton 100	NT2 molybdenum 108	NT2 niobium 90
NT2 krypton 69	NT2 molybdenum 109	NT2 niobium 91
NT2 krypton 70	NT2 molybdenum 110	NT2 niobium 92
NT2 krypton 71	NT2 molybdenum 111	NT2 niobium 93
NT2 krypton 72	NT2 molybdenum 112	NT2 niobium 94
NT2 krypton 73	NT2 molybdenum 113	NT2 niobium 95
NT2 krypton 74	NT2 molybdenum 114	NT2 niobium 96
NT2 krypton 75	NT2 molybdenum 115	NT2 niobium 97
NT2 krypton 76	NT2 molybdenum 83	NT2 niobium 98
NT2 krypton 77	NT2 molybdenum 84	NT2 niobium 99
NT2 krypton 78	NT2 molybdenum 85	NT2 osmium 162
NT2 krypton 79	NT2 molybdenum 86	NT2 osmium 163
NT2 krypton 80	NT2 molybdenum 87	NT2 osmium 164
NT2 krypton 81	NT2 molybdenum 88	NT2 osmium 165
NT2 krypton 82	NT2 molybdenum 89	NT2 osmium 166
NT2 krypton 83	NT2 molybdenum 90	NT2 osmium 167
NT2 krypton 84	NT2 molybdenum 91	NT2 osmium 168
NT2 krypton 85	NT2 molybdenum 92	NT2 osmium 169
NT2 krypton 86	NT2 molybdenum 93	NT2 osmium 170
NT2 krypton 87	NT2 molybdenum 94	NT2 osmium 171
NT2 krypton 88	NT2 molybdenum 95	NT2 osmium 172
NT2 krypton 89	NT2 molybdenum 96	NT2 osmium 173
NT2 krypton 90	NT2 molybdenum 97	NT2 osmium 174
NT2 krypton 91	NT2 molybdenum 98	NT2 osmium 175
NT2 krypton 92	NT2 molybdenum 99	NT2 osmium 176
NT2 krypton 93	NT2 nickel 48	NT2 osmium 177
NT2 krypton 94	NT2 nickel 49	NT2 osmium 178
NT2 krypton 95	NT2 nickel 50	NT2 osmium 179
NT2 krypton 96	NT2 nickel 51	NT2 osmium 180
NT2 krypton 97	NT2 nickel 52	NT2 palladium 100
NT2 krypton 98	NT2 nickel 53	NT2 palladium 101
NT2 krypton 99	NT2 nickel 54	NT2 palladium 102
NT2 lead 178	NT2 nickel 55	NT2 palladium 103
NT2 lead 179	NT2 nickel 56	NT2 palladium 104
NT2 lead 180	NT2 nickel 57	NT2 palladium 105
NT2 manganese 44	NT2 nickel 58	NT2 palladium 106
NT2 manganese 45	NT2 nickel 59	NT2 palladium 107
NT2 manganese 46	NT2 nickel 60	NT2 palladium 108
NT2 manganese 47	NT2 nickel 61	NT2 palladium 109
NT2 manganese 48	NT2 nickel 62	NT2 palladium 110
NT2 manganese 49	NT2 nickel 63	NT2 palladium 111
NT2 manganese 50	NT2 nickel 64	NT2 palladium 112
NT2 manganese 51	NT2 nickel 65	NT2 palladium 113
NT2 manganese 52	NT2 nickel 66	NT2 palladium 114
NT2 manganese 53	NT2 nickel 67	NT2 palladium 115
NT2 manganese 54	NT2 nickel 68	NT2 palladium 116
NT2 manganese 55	NT2 nickel 69	NT2 palladium 117
NT2 manganese 56	NT2 nickel 70	NT2 palladium 118
NT2 manganese 57	NT2 nickel 71	NT2 palladium 119
NT2 manganese 58	NT2 nickel 72	NT2 palladium 120
NT2 manganese 59	NT2 nickel 73	NT2 palladium 121
NT2 manganese 60	NT2 nickel 74	NT2 palladium 122
NT2 manganese 61	NT2 nickel 75	NT2 palladium 123
NT2 manganese 62	NT2 nickel 76	NT2 palladium 124
NT2 manganese 63	NT2 nickel 77	NT2 palladium 91
NT2 manganese 64	NT2 nickel 78	NT2 palladium 92
NT2 manganese 65	NT2 niobium 100	NT2 palladium 93
NT2 manganese 66	NT2 niobium 101	NT2 palladium 94
NT2 manganese 67	NT2 niobium 102	NT2 palladium 95
NT2 manganese 68	NT2 niobium 103	NT2 palladium 96
NT2 manganese 69	NT2 niobium 104	NT2 palladium 97
NT2 mercury 171	NT2 niobium 105	NT2 palladium 98
NT2 mercury 172	NT2 niobium 106	NT2 palladium 99
NT2 mercury 173	NT2 niobium 107	NT2 phosphorus 41
NT2 mercury 174	NT2 niobium 108	NT2 phosphorus 42
NT2 mercury 175	NT2 niobium 109	NT2 phosphorus 43
NT2 mercury 176	NT2 niobium 110	NT2 phosphorus 44
NT2 mercury 177	NT2 niobium 111	NT2 phosphorus 45
NT2 mercury 178	NT2 niobium 112	NT2 phosphorus 46
NT2 mercury 179	NT2 niobium 113	NT2 platinum 168
NT2 mercury 180	NT2 niobium 81	NT2 platinum 169
NT2 molybdenum 100	NT2 niobium 82	NT2 platinum 170



NT2	platinum 171	NT3	dysprosium 152	NT3	europium 153
NT2	platinum 172	NT3	dysprosium 153	NT3	europium 154
NT2	platinum 173	NT3	dysprosium 154	NT3	europium 155
NT2	platinum 174	NT3	dysprosium 155	NT3	europium 156
NT2	platinum 175	NT3	dysprosium 156	NT3	europium 157
NT2	platinum 176	NT3	dysprosium 157	NT3	europium 158
NT2	platinum 177	NT3	dysprosium 158	NT3	europium 159
NT2	platinum 178	NT3	dysprosium 159	NT3	europium 160
NT2	platinum 179	NT3	dysprosium 160	NT3	europium 161
NT2	platinum 180	NT3	dysprosium 161	NT3	europium 162
NT2	potassium 41	NT3	dysprosium 162	NT3	europium 163
NT2	potassium 42	NT3	dysprosium 163	NT3	europium 164
NT2	potassium 43	NT3	dysprosium 164	NT3	europium 165
NT2	potassium 44	NT3	dysprosium 165	NT3	europium 166
NT2	potassium 45	NT3	dysprosium 166	NT3	europium 167
NT2	potassium 46	NT3	dysprosium 167	NT3	gadolinium 134
NT2	potassium 47	NT3	dysprosium 168	NT3	gadolinium 135
NT2	potassium 48	NT3	dysprosium 169	NT3	gadolinium 136
NT2	potassium 49	NT3	dysprosium 170	NT3	gadolinium 137
NT2	potassium 50	NT3	dysprosium 171	NT3	gadolinium 138
NT2	potassium 51	NT3	dysprosium 172	NT3	gadolinium 139
NT2	potassium 52	NT3	dysprosium 173	NT3	gadolinium 140
NT2	potassium 53	NT3	erbium 143	NT3	gadolinium 141
NT2	potassium 54	NT3	erbium 144	NT3	gadolinium 142
NT2	potassium 55	NT3	erbium 145	NT3	gadolinium 143
NT2	rare earth nuclei	NT3	erbium 147	NT3	gadolinium 144
NT3	cerium 119	NT3	erbium 148	NT3	gadolinium 145
NT3	cerium 120	NT3	erbium 149	NT3	gadolinium 146
NT3	cerium 121	NT3	erbium 150	NT3	gadolinium 147
NT3	cerium 122	NT3	erbium 151	NT3	gadolinium 148
NT3	cerium 123	NT3	erbium 152	NT3	gadolinium 149
NT3	cerium 124	NT3	erbium 153	NT3	gadolinium 150
NT3	cerium 125	NT3	erbium 154	NT3	gadolinium 151
NT3	cerium 126	NT3	erbium 155	NT3	gadolinium 152
NT3	cerium 127	NT3	erbium 156	NT3	gadolinium 153
NT3	cerium 128	NT3	erbium 157	NT3	gadolinium 154
NT3	cerium 129	NT3	erbium 158	NT3	gadolinium 155
NT3	cerium 130	NT3	erbium 159	NT3	gadolinium 156
NT3	cerium 131	NT3	erbium 160	NT3	gadolinium 157
NT3	cerium 132	NT3	erbium 161	NT3	gadolinium 158
NT3	cerium 133	NT3	erbium 162	NT3	gadolinium 159
NT3	cerium 134	NT3	erbium 163	NT3	gadolinium 160
NT3	cerium 135	NT3	erbium 164	NT3	gadolinium 161
NT3	cerium 136	NT3	erbium 165	NT3	gadolinium 162
NT3	cerium 137	NT3	erbium 166	NT3	gadolinium 163
NT3	cerium 138	NT3	erbium 167	NT3	gadolinium 164
NT3	cerium 139	NT3	erbium 168	NT3	gadolinium 165
NT3	cerium 140	NT3	erbium 169	NT3	gadolinium 166
NT3	cerium 141	NT3	erbium 170	NT3	gadolinium 167
NT3	cerium 142	NT3	erbium 171	NT3	gadolinium 168
NT3	cerium 143	NT3	erbium 172	NT3	gadolinium 169
NT3	cerium 144	NT3	erbium 173	NT3	holmium 140
NT3	cerium 145	NT3	erbium 174	NT3	holmium 141
NT3	cerium 146	NT3	erbium 175	NT3	holmium 142
NT3	cerium 147	NT3	erbium 176	NT3	holmium 143
NT3	cerium 148	NT3	erbium 177	NT3	holmium 144
NT3	cerium 149	NT3	europium 130	NT3	holmium 145
NT3	cerium 150	NT3	europium 131	NT3	holmium 146
NT3	cerium 151	NT3	europium 132	NT3	holmium 147
NT3	cerium 152	NT3	europium 133	NT3	holmium 148
NT3	cerium 153	NT3	europium 134	NT3	holmium 149
NT3	cerium 154	NT3	europium 135	NT3	holmium 150
NT3	cerium 155	NT3	europium 136	NT3	holmium 151
NT3	cerium 156	NT3	europium 137	NT3	holmium 152
NT3	cerium 157	NT3	europium 138	NT3	holmium 153
NT3	dysprosium 138	NT3	europium 139	NT3	holmium 154
NT3	dysprosium 139	NT3	europium 140	NT3	holmium 155
NT3	dysprosium 140	NT3	europium 141	NT3	holmium 156
NT3	dysprosium 141	NT3	europium 142	NT3	holmium 157
NT3	dysprosium 142	NT3	europium 143	NT3	holmium 158
NT3	dysprosium 143	NT3	europium 144	NT3	holmium 159
NT3	dysprosium 144	NT3	europium 145	NT3	holmium 160
NT3	dysprosium 145	NT3	europium 146	NT3	holmium 161
NT3	dysprosium 146	NT3	europium 147	NT3	holmium 162
NT3	dysprosium 147	NT3	europium 148	NT3	holmium 163
NT3	dysprosium 148	NT3	europium 149	NT3	holmium 164
NT3	dysprosium 149	NT3	europium 150	NT3	holmium 165
NT3	dysprosium 150	NT3	europium 151	NT3	holmium 166
NT3	dysprosium 151	NT3	europium 152	NT3	holmium 167

NT3	holmium 168	NT3	lutetium 182	NT3	praseodymium 158
NT3	holmium 169	NT3	lutetium 183	NT3	praseodymium 159
NT3	holmium 170	NT3	lutetium 184	NT3	promethium 126
NT3	holmium 171	NT3	lutetium 187	NT3	promethium 127
NT3	holmium 172	NT3	neodymium 124	NT3	promethium 128
NT3	holmium 173	NT3	neodymium 125	NT3	promethium 129
NT3	holmium 174	NT3	neodymium 126	NT3	promethium 130
NT3	holmium 175	NT3	neodymium 127	NT3	promethium 131
NT3	lanthanum 117	NT3	neodymium 128	NT3	promethium 132
NT3	lanthanum 118	NT3	neodymium 129	NT3	promethium 133
NT3	lanthanum 119	NT3	neodymium 130	NT3	promethium 134
NT3	lanthanum 120	NT3	neodymium 131	NT3	promethium 135
NT3	lanthanum 121	NT3	neodymium 132	NT3	promethium 136
NT3	lanthanum 122	NT3	neodymium 133	NT3	promethium 137
NT3	lanthanum 123	NT3	neodymium 134	NT3	promethium 138
NT3	lanthanum 124	NT3	neodymium 135	NT3	promethium 139
NT3	lanthanum 125	NT3	neodymium 136	NT3	promethium 140
NT3	lanthanum 126	NT3	neodymium 137	NT3	promethium 141
NT3	lanthanum 127	NT3	neodymium 138	NT3	promethium 142
NT3	lanthanum 128	NT3	neodymium 139	NT3	promethium 143
NT3	lanthanum 129	NT3	neodymium 140	NT3	promethium 144
NT3	lanthanum 130	NT3	neodymium 141	NT3	promethium 145
NT3	lanthanum 131	NT3	neodymium 142	NT3	promethium 146
NT3	lanthanum 132	NT3	neodymium 143	NT3	promethium 147
NT3	lanthanum 133	NT3	neodymium 144	NT3	promethium 148
NT3	lanthanum 134	NT3	neodymium 145	NT3	promethium 149
NT3	lanthanum 135	NT3	neodymium 146	NT3	promethium 150
NT3	lanthanum 136	NT3	neodymium 147	NT3	promethium 151
NT3	lanthanum 137	NT3	neodymium 148	NT3	promethium 152
NT3	lanthanum 138	NT3	neodymium 149	NT3	promethium 153
NT3	lanthanum 139	NT3	neodymium 150	NT3	promethium 154
NT3	lanthanum 140	NT3	neodymium 151	NT3	promethium 155
NT3	lanthanum 141	NT3	neodymium 152	NT3	promethium 156
NT3	lanthanum 142	NT3	neodymium 153	NT3	promethium 157
NT3	lanthanum 143	NT3	neodymium 154	NT3	promethium 158
NT3	lanthanum 144	NT3	neodymium 155	NT3	promethium 159
NT3	lanthanum 145	NT3	neodymium 156	NT3	promethium 160
NT3	lanthanum 146	NT3	neodymium 157	NT3	promethium 161
NT3	lanthanum 147	NT3	neodymium 158	NT3	promethium 162
NT3	lanthanum 148	NT3	neodymium 159	NT3	promethium 163
NT3	lanthanum 149	NT3	neodymium 160	NT3	samarium 128
NT3	lanthanum 150	NT3	neodymium 161	NT3	samarium 129
NT3	lanthanum 151	NT3	praseodymium 121	NT3	samarium 130
NT3	lanthanum 152	NT3	praseodymium 122	NT3	samarium 131
NT3	lanthanum 153	NT3	praseodymium 123	NT3	samarium 132
NT3	lanthanum 154	NT3	praseodymium 124	NT3	samarium 133
NT3	lanthanum 155	NT3	praseodymium 125	NT3	samarium 134
NT3	lutetium 150	NT3	praseodymium 126	NT3	samarium 135
NT3	lutetium 151	NT3	praseodymium 127	NT3	samarium 136
NT3	lutetium 152	NT3	praseodymium 128	NT3	samarium 137
NT3	lutetium 153	NT3	praseodymium 129	NT3	samarium 138
NT3	lutetium 154	NT3	praseodymium 130	NT3	samarium 139
NT3	lutetium 155	NT3	praseodymium 131	NT3	samarium 140
NT3	lutetium 156	NT3	praseodymium 132	NT3	samarium 141
NT3	lutetium 157	NT3	praseodymium 133	NT3	samarium 142
NT3	lutetium 158	NT3	praseodymium 134	NT3	samarium 143
NT3	lutetium 159	NT3	praseodymium 135	NT3	samarium 144
NT3	lutetium 160	NT3	praseodymium 136	NT3	samarium 145
NT3	lutetium 161	NT3	praseodymium 137	NT3	samarium 146
NT3	lutetium 162	NT3	praseodymium 138	NT3	samarium 147
NT3	lutetium 163	NT3	praseodymium 139	NT3	samarium 148
NT3	lutetium 164	NT3	praseodymium 140	NT3	samarium 149
NT3	lutetium 165	NT3	praseodymium 141	NT3	samarium 150
NT3	lutetium 166	NT3	praseodymium 142	NT3	samarium 151
NT3	lutetium 167	NT3	praseodymium 143	NT3	samarium 152
NT3	lutetium 168	NT3	praseodymium 144	NT3	samarium 153
NT3	lutetium 169	NT3	praseodymium 145	NT3	samarium 154
NT3	lutetium 170	NT3	praseodymium 146	NT3	samarium 155
NT3	lutetium 171	NT3	praseodymium 147	NT3	samarium 156
NT3	lutetium 172	NT3	praseodymium 148	NT3	samarium 157
NT3	lutetium 173	NT3	praseodymium 149	NT3	samarium 158
NT3	lutetium 174	NT3	praseodymium 150	NT3	samarium 159
NT3	lutetium 175	NT3	praseodymium 151	NT3	samarium 160
NT3	lutetium 176	NT3	praseodymium 152	NT3	samarium 161
NT3	lutetium 177	NT3	praseodymium 153	NT3	samarium 162
NT3	lutetium 178	NT3	praseodymium 154	NT3	samarium 163
NT3	lutetium 179	NT3	praseodymium 155	NT3	samarium 164
NT3	lutetium 180	NT3	praseodymium 156	NT3	samarium 165
NT3	lutetium 181	NT3	praseodymium 157	NT3	terbium 135

NT3	terbium 136	NT3	ytterbium 155	NT2	rhodium 96
NT3	terbium 137	NT3	ytterbium 156	NT2	rhodium 97
NT3	terbium 138	NT3	ytterbium 157	NT2	rhodium 98
NT3	terbium 139	NT3	ytterbium 158	NT2	rhodium 99
NT3	terbium 140	NT3	ytterbium 159	NT2	rubidium 100
NT3	terbium 141	NT3	ytterbium 160	NT2	rubidium 101
NT3	terbium 142	NT3	ytterbium 161	NT2	rubidium 102
NT3	terbium 143	NT3	ytterbium 162	NT2	rubidium 103
NT3	terbium 144	NT3	ytterbium 163	NT2	rubidium 71
NT3	terbium 145	NT3	ytterbium 164	NT2	rubidium 72
NT3	terbium 146	NT3	ytterbium 165	NT2	rubidium 73
NT3	terbium 147	NT3	ytterbium 166	NT2	rubidium 74
NT3	terbium 148	NT3	ytterbium 167	NT2	rubidium 75
NT3	terbium 149	NT3	ytterbium 168	NT2	rubidium 76
NT3	terbium 150	NT3	ytterbium 169	NT2	rubidium 77
NT3	terbium 151	NT3	ytterbium 170	NT2	rubidium 78
NT3	terbium 152	NT3	ytterbium 171	NT2	rubidium 79
NT3	terbium 153	NT3	ytterbium 172	NT2	rubidium 80
NT3	terbium 154	NT3	ytterbium 173	NT2	rubidium 81
NT3	terbium 155	NT3	ytterbium 174	NT2	rubidium 82
NT3	terbium 156	NT3	ytterbium 175	NT2	rubidium 83
NT3	terbium 157	NT3	ytterbium 176	NT2	rubidium 84
NT3	terbium 158	NT3	ytterbium 177	NT2	rubidium 85
NT3	terbium 159	NT3	ytterbium 178	NT2	rubidium 86
NT3	terbium 160	NT3	ytterbium 179	NT2	rubidium 87
NT3	terbium 161	NT3	ytterbium 180	NT2	rubidium 88
NT3	terbium 162	NT3	ytterbium 181	NT2	rubidium 89
NT3	terbium 163	NT2	rhenium 159	NT2	rubidium 90
NT3	terbium 164	NT2	rhenium 160	NT2	rubidium 91
NT3	terbium 165	NT2	rhenium 161	NT2	rubidium 92
NT3	terbium 166	NT2	rhenium 162	NT2	rubidium 93
NT3	terbium 167	NT2	rhenium 163	NT2	rubidium 94
NT3	terbium 168	NT2	rhenium 164	NT2	rubidium 95
NT3	terbium 169	NT2	rhenium 165	NT2	rubidium 96
NT3	terbium 170	NT2	rhenium 166	NT2	rubidium 97
NT3	terbium 171	NT2	rhenium 167	NT2	rubidium 98
NT3	thulium 144	NT2	rhenium 168	NT2	rubidium 99
NT3	thulium 145	NT2	rhenium 169	NT2	ruthenium 100
NT3	thulium 146	NT2	rhenium 170	NT2	ruthenium 101
NT3	thulium 147	NT2	rhenium 171	NT2	ruthenium 102
NT3	thulium 148	NT2	rhenium 172	NT2	ruthenium 103
NT3	thulium 149	NT2	rhenium 173	NT2	ruthenium 104
NT3	thulium 150	NT2	rhenium 174	NT2	ruthenium 105
NT3	thulium 151	NT2	rhenium 175	NT2	ruthenium 106
NT3	thulium 152	NT2	rhenium 176	NT2	ruthenium 107
NT3	thulium 153	NT2	rhenium 177	NT2	ruthenium 108
NT3	thulium 154	NT2	rhenium 178	NT2	ruthenium 109
NT3	thulium 155	NT2	rhenium 179	NT2	ruthenium 110
NT3	thulium 156	NT2	rhenium 180	NT2	ruthenium 111
NT3	thulium 157	NT2	rhodium 100	NT2	ruthenium 112
NT3	thulium 158	NT2	rhodium 101	NT2	ruthenium 113
NT3	thulium 159	NT2	rhodium 102	NT2	ruthenium 114
NT3	thulium 160	NT2	rhodium 103	NT2	ruthenium 115
NT3	thulium 161	NT2	rhodium 104	NT2	ruthenium 116
NT3	thulium 162	NT2	rhodium 105	NT2	ruthenium 117
NT3	thulium 163	NT2	rhodium 106	NT2	ruthenium 118
NT3	thulium 164	NT2	rhodium 107	NT2	ruthenium 119
NT3	thulium 165	NT2	rhodium 108	NT2	ruthenium 120
NT3	thulium 166	NT2	rhodium 109	NT2	ruthenium 87
NT3	thulium 167	NT2	rhodium 110	NT2	ruthenium 88
NT3	thulium 168	NT2	rhodium 111	NT2	ruthenium 89
NT3	thulium 169	NT2	rhodium 112	NT2	ruthenium 90
NT3	thulium 170	NT2	rhodium 113	NT2	ruthenium 91
NT3	thulium 171	NT2	rhodium 114	NT2	ruthenium 92
NT3	thulium 172	NT2	rhodium 115	NT2	ruthenium 93
NT3	thulium 173	NT2	rhodium 116	NT2	ruthenium 94
NT3	thulium 174	NT2	rhodium 117	NT2	ruthenium 95
NT3	thulium 175	NT2	rhodium 118	NT2	ruthenium 96
NT3	thulium 176	NT2	rhodium 119	NT2	ruthenium 97
NT3	thulium 177	NT2	rhodium 120	NT2	ruthenium 98
NT3	thulium 178	NT2	rhodium 121	NT2	ruthenium 99
NT3	thulium 179	NT2	rhodium 122	NT2	scandium 41
NT3	ytterbium 148	NT2	rhodium 89	NT2	scandium 42
NT3	ytterbium 149	NT2	rhodium 90	NT2	scandium 43
NT3	ytterbium 150	NT2	rhodium 91	NT2	scandium 44
NT3	ytterbium 151	NT2	rhodium 92	NT2	scandium 45
NT3	ytterbium 152	NT2	rhodium 93	NT2	scandium 46
NT3	ytterbium 153	NT2	rhodium 94	NT2	scandium 47
NT3	ytterbium 154	NT2	rhodium 95	NT2	scandium 48

---

NT2	scandium 49	NT2	silver 98	NT2	technetium 109
NT2	scandium 50	NT2	silver 99	NT2	technetium 110
NT2	scandium 51	NT2	strontium 100	NT2	technetium 111
NT2	scandium 52	NT2	strontium 101	NT2	technetium 112
NT2	scandium 53	NT2	strontium 102	NT2	technetium 113
NT2	scandium 54	NT2	strontium 103	NT2	technetium 114
NT2	scandium 55	NT2	strontium 104	NT2	technetium 115
NT2	scandium 56	NT2	strontium 105	NT2	technetium 116
NT2	scandium 57	NT2	strontium 73	NT2	technetium 117
NT2	scandium 58	NT2	strontium 74	NT2	technetium 118
NT2	scandium 59	NT2	strontium 75	NT2	technetium 85
NT2	scandium 60	NT2	strontium 76	NT2	technetium 86
NT2	selenium 64	NT2	strontium 77	NT2	technetium 87
NT2	selenium 65	NT2	strontium 78	NT2	technetium 88
NT2	selenium 66	NT2	strontium 79	NT2	technetium 89
NT2	selenium 67	NT2	strontium 80	NT2	technetium 90
NT2	selenium 68	NT2	strontium 81	NT2	technetium 91
NT2	selenium 69	NT2	strontium 82	NT2	technetium 92
NT2	selenium 70	NT2	strontium 83	NT2	technetium 93
NT2	selenium 71	NT2	strontium 84	NT2	technetium 94
NT2	selenium 72	NT2	strontium 85	NT2	technetium 95
NT2	selenium 73	NT2	strontium 86	NT2	technetium 96
NT2	selenium 74	NT2	strontium 87	NT2	technetium 97
NT2	selenium 75	NT2	strontium 88	NT2	technetium 98
NT2	selenium 76	NT2	strontium 89	NT2	technetium 99
NT2	selenium 77	NT2	strontium 90	NT2	tellurium 105
NT2	selenium 78	NT2	strontium 91	NT2	tellurium 106
NT2	selenium 79	NT2	strontium 92	NT2	tellurium 107
NT2	selenium 80	NT2	strontium 93	NT2	tellurium 108
NT2	selenium 81	NT2	strontium 94	NT2	tellurium 109
NT2	selenium 82	NT2	strontium 95	NT2	tellurium 110
NT2	selenium 83	NT2	strontium 96	NT2	tellurium 111
NT2	selenium 84	NT2	strontium 97	NT2	tellurium 112
NT2	selenium 85	NT2	strontium 98	NT2	tellurium 113
NT2	selenium 86	NT2	strontium 99	NT2	tellurium 114
NT2	selenium 87	NT2	sulfur 41	NT2	tellurium 115
NT2	selenium 88	NT2	sulfur 42	NT2	tellurium 116
NT2	selenium 89	NT2	sulfur 43	NT2	tellurium 117
NT2	selenium 91	NT2	sulfur 44	NT2	tellurium 118
NT2	silicon 41	NT2	sulfur 45	NT2	tellurium 119
NT2	silicon 42	NT2	sulfur 46	NT2	tellurium 120
NT2	silicon 43	NT2	sulfur 47	NT2	tellurium 121
NT2	silicon 44	NT2	sulfur 48	NT2	tellurium 122
NT2	silver 100	NT2	sulfur 49	NT2	tellurium 123
NT2	silver 101	NT2	tantalum 155	NT2	tellurium 124
NT2	silver 102	NT2	tantalum 156	NT2	tellurium 125
NT2	silver 103	NT2	tantalum 157	NT2	tellurium 126
NT2	silver 104	NT2	tantalum 158	NT2	tellurium 127
NT2	silver 105	NT2	tantalum 159	NT2	tellurium 128
NT2	silver 106	NT2	tantalum 160	NT2	tellurium 129
NT2	silver 107	NT2	tantalum 161	NT2	tellurium 130
NT2	silver 108	NT2	tantalum 162	NT2	tellurium 131
NT2	silver 109	NT2	tantalum 163	NT2	tellurium 132
NT2	silver 110	NT2	tantalum 164	NT2	tellurium 133
NT2	silver 111	NT2	tantalum 165	NT2	tellurium 134
NT2	silver 112	NT2	tantalum 166	NT2	tellurium 135
NT2	silver 113	NT2	tantalum 167	NT2	tellurium 136
NT2	silver 114	NT2	tantalum 168	NT2	tellurium 137
NT2	silver 115	NT2	tantalum 169	NT2	tellurium 138
NT2	silver 116	NT2	tantalum 170	NT2	tellurium 139
NT2	silver 117	NT2	tantalum 171	NT2	tellurium 140
NT2	silver 118	NT2	tantalum 172	NT2	tellurium 141
NT2	silver 119	NT2	tantalum 173	NT2	tellurium 142
NT2	silver 120	NT2	tantalum 174	NT2	thallium 176
NT2	silver 121	NT2	tantalum 175	NT2	thallium 177
NT2	silver 122	NT2	tantalum 176	NT2	thallium 178
NT2	silver 123	NT2	tantalum 177	NT2	thallium 179
NT2	silver 124	NT2	tantalum 178	NT2	thallium 180
NT2	silver 125	NT2	tantalum 179	NT2	tin 100
NT2	silver 126	NT2	tantalum 180	NT2	tin 101
NT2	silver 127	NT2	technetium 100	NT2	tin 102
NT2	silver 128	NT2	technetium 101	NT2	tin 103
NT2	silver 129	NT2	technetium 102	NT2	tin 104
NT2	silver 130	NT2	technetium 103	NT2	tin 105
NT2	silver 93	NT2	technetium 104	NT2	tin 106
NT2	silver 94	NT2	technetium 105	NT2	tin 107
NT2	silver 95	NT2	technetium 106	NT2	tin 108
NT2	silver 96	NT2	technetium 107	NT2	tin 109
NT2	silver 97	NT2	technetium 108	NT2	tin 110

NT2	tin 111	NT2	vanadium 46	NT2	yttrium 87
NT2	tin 112	NT2	vanadium 47	NT2	yttrium 88
NT2	tin 113	NT2	vanadium 48	NT2	yttrium 89
NT2	tin 114	NT2	vanadium 49	NT2	yttrium 90
NT2	tin 115	NT2	vanadium 50	NT2	yttrium 91
NT2	tin 116	NT2	vanadium 51	NT2	yttrium 92
NT2	tin 117	NT2	vanadium 52	NT2	yttrium 93
NT2	tin 118	NT2	vanadium 53	NT2	yttrium 94
NT2	tin 119	NT2	vanadium 54	NT2	yttrium 95
NT2	tin 120	NT2	vanadium 55	NT2	yttrium 96
NT2	tin 121	NT2	vanadium 56	NT2	yttrium 97
NT2	tin 122	NT2	vanadium 57	NT2	yttrium 98
NT2	tin 123	NT2	vanadium 58	NT2	yttrium 99
NT2	tin 124	NT2	vanadium 59	NT2	zinc 54
NT2	tin 125	NT2	vanadium 60	NT2	zinc 55
NT2	tin 126	NT2	vanadium 61	NT2	zinc 56
NT2	tin 127	NT2	vanadium 62	NT2	zinc 57
NT2	tin 128	NT2	vanadium 63	NT2	zinc 58
NT2	tin 129	NT2	vanadium 64	NT2	zinc 59
NT2	tin 130	NT2	vanadium 65	NT2	zinc 60
NT2	tin 131	NT2	xenon 109	NT2	zinc 61
NT2	tin 132	NT2	xenon 110	NT2	zinc 62
NT2	tin 133	NT2	xenon 111	NT2	zinc 63
NT2	tin 134	NT2	xenon 112	NT2	zinc 64
NT2	tin 135	NT2	xenon 113	NT2	zinc 65
NT2	tin 136	NT2	xenon 114	NT2	zinc 66
NT2	tin 137	NT2	xenon 115	NT2	zinc 67
NT2	tin 99	NT2	xenon 116	NT2	zinc 68
NT2	titanium 41	NT2	xenon 117	NT2	zinc 69
NT2	titanium 42	NT2	xenon 118	NT2	zinc 70
NT2	titanium 43	NT2	xenon 119	NT2	zinc 71
NT2	titanium 44	NT2	xenon 120	NT2	zinc 72
NT2	titanium 45	NT2	xenon 121	NT2	zinc 73
NT2	titanium 46	NT2	xenon 122	NT2	zinc 74
NT2	titanium 47	NT2	xenon 123	NT2	zinc 75
NT2	titanium 48	NT2	xenon 124	NT2	zinc 76
NT2	titanium 49	NT2	xenon 125	NT2	zinc 77
NT2	titanium 50	NT2	xenon 126	NT2	zinc 78
NT2	titanium 51	NT2	xenon 127	NT2	zinc 79
NT2	titanium 52	NT2	xenon 128	NT2	zinc 80
NT2	titanium 53	NT2	xenon 129	NT2	zinc 81
NT2	titanium 54	NT2	xenon 130	NT2	zinc 82
NT2	titanium 55	NT2	xenon 131	NT2	zinc 83
NT2	titanium 56	NT2	xenon 132	NT2	zirconium 100
NT2	titanium 57	NT2	xenon 133	NT2	zirconium 101
NT2	titanium 58	NT2	xenon 134	NT2	zirconium 102
NT2	titanium 59	NT2	xenon 135	NT2	zirconium 103
NT2	titanium 60	NT2	xenon 136	NT2	zirconium 104
NT2	titanium 61	NT2	xenon 137	NT2	zirconium 105
NT2	titanium 62	NT2	xenon 138	NT2	zirconium 106
NT2	titanium 63	NT2	xenon 139	NT2	zirconium 107
NT2	tungsten 158	NT2	xenon 140	NT2	zirconium 108
NT2	tungsten 159	NT2	xenon 141	NT2	zirconium 109
NT2	tungsten 160	NT2	xenon 142	NT2	zirconium 110
NT2	tungsten 161	NT2	xenon 143	NT2	zirconium 78
NT2	tungsten 162	NT2	xenon 144	NT2	zirconium 79
NT2	tungsten 163	NT2	xenon 145	NT2	zirconium 80
NT2	tungsten 164	NT2	xenon 146	NT2	zirconium 81
NT2	tungsten 165	NT2	xenon 147	NT2	zirconium 82
NT2	tungsten 166	NT2	yttrium 100	NT2	zirconium 83
NT2	tungsten 167	NT2	yttrium 101	NT2	zirconium 84
NT2	tungsten 168	NT2	yttrium 102	NT2	zirconium 85
NT2	tungsten 169	NT2	yttrium 103	NT2	zirconium 86
NT2	tungsten 170	NT2	yttrium 104	NT2	zirconium 87
NT2	tungsten 171	NT2	yttrium 105	NT2	zirconium 88
NT2	tungsten 172	NT2	yttrium 106	NT2	zirconium 89
NT2	tungsten 173	NT2	yttrium 107	NT2	zirconium 90
NT2	tungsten 174	NT2	yttrium 108	NT2	zirconium 91
NT2	tungsten 175	NT2	yttrium 76	NT2	zirconium 92
NT2	tungsten 176	NT2	yttrium 77	NT2	zirconium 93
NT2	tungsten 177	NT2	yttrium 78	NT2	zirconium 94
NT2	tungsten 178	NT2	yttrium 79	NT2	zirconium 95
NT2	tungsten 179	NT2	yttrium 80	NT2	zirconium 96
NT2	tungsten 180	NT2	yttrium 81	NT2	zirconium 97
NT2	vanadium 41	NT2	yttrium 82	NT2	zirconium 98
NT2	vanadium 42	NT2	yttrium 83	NT2	zirconium 99
NT2	vanadium 43	NT2	yttrium 84	NT1	isobaric nuclei
NT2	vanadium 44	NT2	yttrium 85	NT1	isomeric nuclei
NT2	vanadium 45	NT2	yttrium 86	NT1	isotonic nuclei

NT1	light nuclei	NT2	carbon 9	NT2	magnesium 35
NT2	aluminium 21	NT2	chlorine 28	NT2	magnesium 36
NT2	aluminium 22	NT2	chlorine 29	NT2	magnesium 37
NT2	aluminium 23	NT2	chlorine 30	NT2	magnesium 38
NT2	aluminium 24	NT2	chlorine 31	NT2	magnesium 39
NT2	aluminium 25	NT2	chlorine 32	NT2	magnesium 40
NT2	aluminium 26	NT2	chlorine 33	NT2	neon 16
NT2	aluminium 27	NT2	chlorine 34	NT2	neon 17
NT2	aluminium 28	NT2	chlorine 35	NT2	neon 18
NT2	aluminium 29	NT2	chlorine 36	NT2	neon 19
NT2	aluminium 30	NT2	chlorine 37	NT2	neon 20
NT2	aluminium 31	NT2	chlorine 38	NT2	neon 21
NT2	aluminium 32	NT2	chlorine 39	NT2	neon 22
NT2	aluminium 33	NT2	chlorine 40	NT2	neon 23
NT2	aluminium 34	NT2	deuterium	NT2	neon 24
NT2	aluminium 35	NT2	fluorine 14	NT2	neon 25
NT2	aluminium 36	NT2	fluorine 15	NT2	neon 26
NT2	aluminium 37	NT2	fluorine 16	NT2	neon 27
NT2	aluminium 38	NT2	fluorine 17	NT2	neon 28
NT2	aluminium 39	NT2	fluorine 18	NT2	neon 29
NT2	aluminium 40	NT2	fluorine 19	NT2	neon 30
NT2	argon 30	NT2	fluorine 20	NT2	neon 31
NT2	argon 31	NT2	fluorine 21	NT2	neon 32
NT2	argon 32	NT2	fluorine 22	NT2	neon 33
NT2	argon 33	NT2	fluorine 23	NT2	neon 34
NT2	argon 34	NT2	fluorine 24	NT2	nitrogen 10
NT2	argon 35	NT2	fluorine 25	NT2	nitrogen 11
NT2	argon 36	NT2	fluorine 26	NT2	nitrogen 12
NT2	argon 37	NT2	fluorine 27	NT2	nitrogen 13
NT2	argon 38	NT2	fluorine 28	NT2	nitrogen 14
NT2	argon 39	NT2	fluorine 29	NT2	nitrogen 15
NT2	argon 40	NT2	fluorine 30	NT2	nitrogen 16
NT2	beryllium 10	NT2	fluorine 31	NT2	nitrogen 17
NT2	beryllium 11	NT2	helium 10	NT2	nitrogen 18
NT2	beryllium 12	NT2	helium 2	NT2	nitrogen 19
NT2	beryllium 13	NT2	helium 3	NT2	nitrogen 20
NT2	beryllium 14	NT3	helium 3 a	NT2	nitrogen 21
NT2	beryllium 15	NT3	helium 3 al	NT2	nitrogen 22
NT2	beryllium 16	NT3	helium 3 b	NT2	nitrogen 23
NT2	beryllium 5	NT2	helium 4	NT2	nitrogen 24
NT2	beryllium 6	NT3	helium i	NT2	nitrogen 25
NT2	beryllium 7	NT3	helium ii	NT2	oxygen 12
NT2	beryllium 8	NT2	helium 5	NT2	oxygen 13
NT2	beryllium 9	NT2	helium 6	NT2	oxygen 14
NT2	boron 10	NT2	helium 7	NT2	oxygen 15
NT2	boron 11	NT2	helium 8	NT2	oxygen 16
NT2	boron 12	NT2	helium 9	NT2	oxygen 17
NT2	boron 13	NT2	hydrogen 1	NT2	oxygen 18
NT2	boron 14	NT2	hydrogen 4	NT2	oxygen 19
NT2	boron 15	NT2	hydrogen 5	NT2	oxygen 20
NT2	boron 16	NT2	hydrogen 6	NT2	oxygen 21
NT2	boron 17	NT2	hydrogen 7	NT2	oxygen 22
NT2	boron 18	NT2	lithium 10	NT2	oxygen 23
NT2	boron 19	NT2	lithium 11	NT2	oxygen 24
NT2	boron 6	NT2	lithium 12	NT2	oxygen 25
NT2	boron 7	NT2	lithium 13	NT2	oxygen 26
NT2	boron 8	NT2	lithium 3	NT2	oxygen 27
NT2	boron 9	NT2	lithium 4	NT2	oxygen 28
NT2	calcium 34	NT2	lithium 5	NT2	phosphorus 21
NT2	calcium 35	NT2	lithium 6	NT2	phosphorus 24
NT2	calcium 36	NT2	lithium 7	NT2	phosphorus 25
NT2	calcium 37	NT2	lithium 8	NT2	phosphorus 26
NT2	calcium 38	NT2	lithium 9	NT2	phosphorus 27
NT2	calcium 39	NT2	magnesium 19	NT2	phosphorus 28
NT2	calcium 40	NT2	magnesium 20	NT2	phosphorus 29
NT2	carbon 10	NT2	magnesium 21	NT2	phosphorus 30
NT2	carbon 11	NT2	magnesium 22	NT2	phosphorus 31
NT2	carbon 12	NT2	magnesium 23	NT2	phosphorus 32
NT2	carbon 13	NT2	magnesium 24	NT2	phosphorus 33
NT2	carbon 14	NT2	magnesium 25	NT2	phosphorus 34
NT2	carbon 15	NT2	magnesium 26	NT2	phosphorus 35
NT2	carbon 16	NT2	magnesium 27	NT2	phosphorus 36
NT2	carbon 17	NT2	magnesium 28	NT2	phosphorus 37
NT2	carbon 18	NT2	magnesium 29	NT2	phosphorus 38
NT2	carbon 19	NT2	magnesium 30	NT2	phosphorus 39
NT2	carbon 20	NT2	magnesium 31	NT2	phosphorus 40
NT2	carbon 21	NT2	magnesium 32	NT2	potassium 32
NT2	carbon 22	NT2	magnesium 33	NT2	potassium 33
NT2	carbon 8	NT2	magnesium 34	NT2	potassium 34

NT2	potassium 35	NT2	actinium 219	NT2	astatine 219
NT2	potassium 36	NT2	actinium 221	NT2	astatine 221
NT2	potassium 37	NT2	actinium 223	NT2	astatine 223
NT2	potassium 38	NT2	actinium 225	NT2	berkelium 235
NT2	potassium 39	NT2	actinium 227	NT2	berkelium 237
NT2	potassium 40	NT2	actinium 229	NT2	berkelium 239
NT2	scandium 36	NT2	actinium 231	NT2	berkelium 241
NT2	scandium 37	NT2	actinium 233	NT2	berkelium 243
NT2	scandium 38	NT2	actinium 235	NT2	berkelium 245
NT2	scandium 39	NT2	aluminium 21	NT2	berkelium 247
NT2	scandium 40	NT2	aluminium 23	NT2	berkelium 249
NT2	silicon 22	NT2	aluminium 25	NT2	berkelium 251
NT2	silicon 23	NT2	aluminium 27	NT2	berkelium 253
NT2	silicon 24	NT2	aluminium 29	NT2	bismuth 185
NT2	silicon 25	NT2	aluminium 31	NT2	bismuth 187
NT2	silicon 26	NT2	aluminium 33	NT2	bismuth 189
NT2	silicon 27	NT2	aluminium 35	NT2	bismuth 191
NT2	silicon 28	NT2	aluminium 37	NT2	bismuth 193
NT2	silicon 29	NT2	aluminium 39	NT2	bismuth 195
NT2	silicon 30	NT2	aluminium 41	NT2	bismuth 197
NT2	silicon 31	NT2	americium 231	NT2	bismuth 199
NT2	silicon 32	NT2	americium 233	NT2	bismuth 201
NT2	silicon 33	NT2	americium 235	NT2	bismuth 203
NT2	silicon 34	NT2	americium 237	NT2	bismuth 205
NT2	silicon 35	NT2	americium 239	NT2	bismuth 207
NT2	silicon 36	NT2	americium 241	NT2	bismuth 209
NT2	silicon 37	NT2	americium 243	NT2	bismuth 211
NT2	silicon 38	NT2	americium 245	NT2	bismuth 213
NT2	silicon 39	NT2	americium 247	NT2	bismuth 215
NT2	silicon 40	NT2	americium 249	NT2	bismuth 217
NT2	sodium 18	NT2	antimony 103	NT2	bohrium 261
NT2	sodium 19	NT2	antimony 105	NT2	bohrium 263
NT2	sodium 20	NT2	antimony 107	NT2	bohrium 265
NT2	sodium 21	NT2	antimony 109	NT2	bohrium 267
NT2	sodium 22	NT2	antimony 111	NT2	bohrium 271
NT2	sodium 23	NT2	antimony 113	NT2	bohrium 273
NT2	sodium 24	NT2	antimony 115	NT2	bohrium 275
NT2	sodium 25	NT2	antimony 117	NT2	boron 11
NT2	sodium 26	NT2	antimony 119	NT2	boron 13
NT2	sodium 27	NT2	antimony 121	NT2	boron 15
NT2	sodium 28	NT2	antimony 123	NT2	boron 17
NT2	sodium 29	NT2	antimony 125	NT2	boron 19
NT2	sodium 30	NT2	antimony 127	NT2	boron 7
NT2	sodium 31	NT2	antimony 129	NT2	boron 9
NT2	sodium 32	NT2	antimony 131	NT2	bromine 67
NT2	sodium 33	NT2	antimony 133	NT2	bromine 69
NT2	sodium 34	NT2	antimony 135	NT2	bromine 71
NT2	sodium 35	NT2	antimony 137	NT2	bromine 73
NT2	sodium 37	NT2	antimony 139	NT2	bromine 75
NT2	sulfur 24	NT2	arsenic 61	NT2	bromine 77
NT2	sulfur 26	NT2	arsenic 63	NT2	bromine 79
NT2	sulfur 27	NT2	arsenic 65	NT2	bromine 81
NT2	sulfur 28	NT2	arsenic 67	NT2	bromine 83
NT2	sulfur 29	NT2	arsenic 69	NT2	bromine 85
NT2	sulfur 30	NT2	arsenic 71	NT2	bromine 87
NT2	sulfur 31	NT2	arsenic 73	NT2	bromine 89
NT2	sulfur 32	NT2	arsenic 75	NT2	bromine 91
NT2	sulfur 33	NT2	arsenic 77	NT2	bromine 93
NT2	sulfur 34	NT2	arsenic 79	NT2	bromine 95
NT2	sulfur 35	NT2	arsenic 81	NT2	bromine 97
NT2	sulfur 36	NT2	arsenic 83	NT2	cesium 113
NT2	sulfur 37	NT2	arsenic 85	NT2	cesium 115
NT2	sulfur 38	NT2	arsenic 87	NT2	cesium 117
NT2	sulfur 39	NT2	arsenic 89	NT2	cesium 119
NT2	sulfur 40	NT2	arsenic 91	NT2	cesium 121
NT2	titanium 38	NT2	astatine 191	NT2	cesium 123
NT2	titanium 39	NT2	astatine 193	NT2	cesium 125
NT2	titanium 40	NT2	astatine 195	NT2	cesium 127
NT2	tritium	NT2	astatine 197	NT2	cesium 129
NT2	vanadium 40	NT2	astatine 199	NT2	cesium 131
NT1	magic nuclei	NT2	astatine 201	NT2	cesium 133
NT1	mirror nuclei	NT2	astatine 203	NT2	cesium 135
NT1	odd-even nuclei	NT2	astatine 205	NT2	cesium 137
NT2	actinium 207	NT2	astatine 207	NT2	cesium 139
NT2	actinium 209	NT2	astatine 209	NT2	cesium 141
NT2	actinium 211	NT2	astatine 211	NT2	cesium 143
NT2	actinium 213	NT2	astatine 213	NT2	cesium 145
NT2	actinium 215	NT2	astatine 215	NT2	cesium 147
NT2	actinium 217	NT2	astatine 217	NT2	cesium 149

NT2 cesium 151	NT2 fluorine 15	NT2 hydrogen 5
NT2 chlorine 29	NT2 fluorine 17	NT2 hydrogen 7
NT2 chlorine 31	NT2 fluorine 19	NT2 indium 101
NT2 chlorine 33	NT2 fluorine 21	NT2 indium 103
NT2 chlorine 35	NT2 fluorine 23	NT2 indium 105
NT2 chlorine 37	NT2 fluorine 25	NT2 indium 107
NT2 chlorine 39	NT2 fluorine 27	NT2 indium 109
NT2 chlorine 41	NT2 fluorine 29	NT2 indium 111
NT2 chlorine 43	NT2 fluorine 31	NT2 indium 113
NT2 chlorine 45	NT2 francium 199	NT2 indium 115
NT2 chlorine 47	NT2 francium 201	NT2 indium 117
NT2 chlorine 49	NT2 francium 203	NT2 indium 119
NT2 chlorine 51	NT2 francium 205	NT2 indium 121
NT2 cobalt 49	NT2 francium 207	NT2 indium 123
NT2 cobalt 51	NT2 francium 209	NT2 indium 125
NT2 cobalt 53	NT2 francium 211	NT2 indium 127
NT2 cobalt 55	NT2 francium 213	NT2 indium 129
NT2 cobalt 57	NT2 francium 215	NT2 indium 131
NT2 cobalt 59	NT2 francium 217	NT2 indium 133
NT2 cobalt 61	NT2 francium 219	NT2 indium 135
NT2 cobalt 63	NT2 francium 221	NT2 indium 97
NT2 cobalt 65	NT2 francium 223	NT2 indium 99
NT2 cobalt 67	NT2 francium 225	NT2 iodine 109
NT2 cobalt 69	NT2 francium 227	NT2 iodine 111
NT2 cobalt 71	NT2 francium 229	NT2 iodine 113
NT2 cobalt 73	NT2 francium 231	NT2 iodine 115
NT2 cobalt 75	NT2 gallium 57	NT2 iodine 117
NT2 copper 53	NT2 gallium 59	NT2 iodine 119
NT2 copper 55	NT2 gallium 61	NT2 iodine 121
NT2 copper 57	NT2 gallium 63	NT2 iodine 123
NT2 copper 59	NT2 gallium 65	NT2 iodine 125
NT2 copper 61	NT2 gallium 67	NT2 iodine 127
NT2 copper 63	NT2 gallium 69	NT2 iodine 129
NT2 copper 65	NT2 gallium 71	NT2 iodine 131
NT2 copper 67	NT2 gallium 73	NT2 iodine 133
NT2 copper 69	NT2 gallium 75	NT2 iodine 135
NT2 copper 71	NT2 gallium 77	NT2 iodine 137
NT2 copper 73	NT2 gallium 79	NT2 iodine 139
NT2 copper 75	NT2 gallium 81	NT2 iodine 141
NT2 copper 77	NT2 gallium 83	NT2 iodine 143
NT2 copper 79	NT2 gallium 85	NT2 iridium 165
NT2 dubnium 255	NT2 gold 169	NT2 iridium 167
NT2 dubnium 257	NT2 gold 171	NT2 iridium 169
NT2 dubnium 259	NT2 gold 173	NT2 iridium 171
NT2 dubnium 261	NT2 gold 175	NT2 iridium 173
NT2 dubnium 263	NT2 gold 177	NT2 iridium 175
NT2 dubnium 265	NT2 gold 179	NT2 iridium 177
NT2 dubnium 267	NT2 gold 181	NT2 iridium 179
NT2 dubnium 269	NT2 gold 183	NT2 iridium 181
NT2 einsteinium 241	NT2 gold 185	NT2 iridium 183
NT2 einsteinium 243	NT2 gold 187	NT2 iridium 185
NT2 einsteinium 245	NT2 gold 189	NT2 iridium 187
NT2 einsteinium 247	NT2 gold 191	NT2 iridium 189
NT2 einsteinium 249	NT2 gold 193	NT2 iridium 191
NT2 einsteinium 251	NT2 gold 195	NT2 iridium 193
NT2 einsteinium 253	NT2 gold 197	NT2 iridium 195
NT2 einsteinium 255	NT2 gold 199	NT2 iridium 197
NT2 einsteinium 257	NT2 gold 201	NT2 iridium 199
NT2 element 113 283	NT2 gold 203	NT2 lanthanum 117
NT2 element 115 287	NT2 gold 205	NT2 lanthanum 119
NT2 europium 131	NT2 holmium 141	NT2 lanthanum 121
NT2 europium 133	NT2 holmium 143	NT2 lanthanum 123
NT2 europium 135	NT2 holmium 145	NT2 lanthanum 125
NT2 europium 137	NT2 holmium 147	NT2 lanthanum 127
NT2 europium 139	NT2 holmium 149	NT2 lanthanum 129
NT2 europium 141	NT2 holmium 151	NT2 lanthanum 131
NT2 europium 143	NT2 holmium 153	NT2 lanthanum 133
NT2 europium 145	NT2 holmium 155	NT2 lanthanum 135
NT2 europium 147	NT2 holmium 157	NT2 lanthanum 137
NT2 europium 149	NT2 holmium 159	NT2 lanthanum 139
NT2 europium 151	NT2 holmium 161	NT2 lanthanum 141
NT2 europium 153	NT2 holmium 163	NT2 lanthanum 143
NT2 europium 155	NT2 holmium 165	NT2 lanthanum 145
NT2 europium 157	NT2 holmium 167	NT2 lanthanum 147
NT2 europium 159	NT2 holmium 169	NT2 lanthanum 149
NT2 europium 161	NT2 holmium 171	NT2 lanthanum 151
NT2 europium 163	NT2 holmium 173	NT2 lanthanum 153
NT2 europium 165	NT2 holmium 175	NT2 lanthanum 155
NT2 europium 167	NT2 hydrogen 1	NT2 lawrencium 251



NT2 lawrencium 253	NT2 niobium 87	NT2 protactinium 215
NT2 lawrencium 255	NT2 niobium 89	NT2 protactinium 217
NT2 lawrencium 257	NT2 niobium 91	NT2 protactinium 219
NT2 lawrencium 259	NT2 niobium 93	NT2 protactinium 221
NT2 lawrencium 261	NT2 niobium 95	NT2 protactinium 223
NT2 lawrencium 263	NT2 niobium 97	NT2 protactinium 225
NT2 lawrencium 265	NT2 niobium 99	NT2 protactinium 227
NT2 lithium 11	NT2 nitrogen 11	NT2 protactinium 229
NT2 lithium 13	NT2 nitrogen 13	NT2 protactinium 231
NT2 lithium 3	NT2 nitrogen 15	NT2 protactinium 233
NT2 lithium 5	NT2 nitrogen 17	NT2 protactinium 235
NT2 lithium 7	NT2 nitrogen 19	NT2 protactinium 237
NT2 lithium 9	NT2 nitrogen 21	NT2 protactinium 239
NT2 lutetium 151	NT2 nitrogen 23	NT2 rhenium 159
NT2 lutetium 153	NT2 nitrogen 25	NT2 rhenium 161
NT2 lutetium 155	NT2 phosphorus 21	NT2 rhenium 163
NT2 lutetium 157	NT2 phosphorus 25	NT2 rhenium 165
NT2 lutetium 159	NT2 phosphorus 27	NT2 rhenium 167
NT2 lutetium 161	NT2 phosphorus 29	NT2 rhenium 169
NT2 lutetium 163	NT2 phosphorus 31	NT2 rhenium 171
NT2 lutetium 165	NT2 phosphorus 33	NT2 rhenium 173
NT2 lutetium 167	NT2 phosphorus 35	NT2 rhenium 175
NT2 lutetium 169	NT2 phosphorus 37	NT2 rhenium 177
NT2 lutetium 171	NT2 phosphorus 39	NT2 rhenium 179
NT2 lutetium 173	NT2 phosphorus 41	NT2 rhenium 181
NT2 lutetium 175	NT2 phosphorus 43	NT2 rhenium 183
NT2 lutetium 177	NT2 phosphorus 45	NT2 rhenium 185
NT2 lutetium 179	NT2 potassium 33	NT2 rhenium 187
NT2 lutetium 181	NT2 potassium 35	NT2 rhenium 189
NT2 lutetium 183	NT2 potassium 37	NT2 rhenium 191
NT2 lutetium 187	NT2 potassium 39	NT2 rhenium 193
NT2 manganese 45	NT2 potassium 41	NT2 rhodium 101
NT2 manganese 47	NT2 potassium 43	NT2 rhodium 103
NT2 manganese 49	NT2 potassium 45	NT2 rhodium 105
NT2 manganese 51	NT2 potassium 47	NT2 rhodium 107
NT2 manganese 53	NT2 potassium 49	NT2 rhodium 109
NT2 manganese 55	NT2 potassium 51	NT2 rhodium 111
NT2 manganese 57	NT2 potassium 53	NT2 rhodium 113
NT2 manganese 59	NT2 potassium 55	NT2 rhodium 115
NT2 manganese 61	NT2 praseodymium 121	NT2 rhodium 117
NT2 manganese 63	NT2 praseodymium 123	NT2 rhodium 119
NT2 manganese 65	NT2 praseodymium 125	NT2 rhodium 121
NT2 manganese 67	NT2 praseodymium 127	NT2 rhodium 89
NT2 manganese 69	NT2 praseodymium 129	NT2 rhodium 91
NT2 meitnerium 265	NT2 praseodymium 131	NT2 rhodium 93
NT2 meitnerium 267	NT2 praseodymium 133	NT2 rhodium 95
NT2 meitnerium 271	NT2 praseodymium 135	NT2 rhodium 97
NT2 meitnerium 273	NT2 praseodymium 137	NT2 rhodium 99
NT2 meitnerium 275	NT2 praseodymium 139	NT2 roentgenium 273
NT2 meitnerium 279	NT2 praseodymium 141	NT2 roentgenium 279
NT2 mendelevium 245	NT2 praseodymium 143	NT2 rubidium 101
NT2 mendelevium 247	NT2 praseodymium 145	NT2 rubidium 103
NT2 mendelevium 249	NT2 praseodymium 147	NT2 rubidium 71
NT2 mendelevium 251	NT2 praseodymium 149	NT2 rubidium 73
NT2 mendelevium 253	NT2 praseodymium 151	NT2 rubidium 75
NT2 mendelevium 255	NT2 praseodymium 153	NT2 rubidium 77
NT2 mendelevium 257	NT2 praseodymium 155	NT2 rubidium 79
NT2 mendelevium 259	NT2 praseodymium 157	NT2 rubidium 81
NT2 mendelevium 261	NT2 praseodymium 159	NT2 rubidium 83
NT2 neptunium 225	NT2 promethium 127	NT2 rubidium 85
NT2 neptunium 227	NT2 promethium 129	NT2 rubidium 87
NT2 neptunium 229	NT2 promethium 131	NT2 rubidium 89
NT2 neptunium 231	NT2 promethium 133	NT2 rubidium 91
NT2 neptunium 233	NT2 promethium 135	NT2 rubidium 93
NT2 neptunium 235	NT2 promethium 137	NT2 rubidium 95
NT2 neptunium 237	NT2 promethium 139	NT2 rubidium 97
NT2 neptunium 239	NT2 promethium 141	NT2 rubidium 99
NT2 neptunium 241	NT2 promethium 143	NT2 scandium 37
NT2 neptunium 243	NT2 promethium 145	NT2 scandium 39
NT2 niobium 101	NT2 promethium 147	NT2 scandium 41
NT2 niobium 103	NT2 promethium 149	NT2 scandium 43
NT2 niobium 105	NT2 promethium 151	NT2 scandium 45
NT2 niobium 107	NT2 promethium 153	NT2 scandium 47
NT2 niobium 109	NT2 promethium 155	NT2 scandium 49
NT2 niobium 111	NT2 promethium 157	NT2 scandium 51
NT2 niobium 113	NT2 promethium 159	NT2 scandium 53
NT2 niobium 81	NT2 promethium 161	NT2 scandium 55
NT2 niobium 83	NT2 promethium 163	NT2 scandium 57
NT2 niobium 85	NT2 protactinium 213	NT2 scandium 59

NT2	silver 101	NT2	terbium 167	NT2	actinium 224
NT2	silver 103	NT2	terbium 169	NT2	actinium 226
NT2	silver 105	NT2	terbium 171	NT2	actinium 228
NT2	silver 107	NT2	thallium 177	NT2	actinium 230
NT2	silver 109	NT2	thallium 179	NT2	actinium 232
NT2	silver 111	NT2	thallium 181	NT2	actinium 234
NT2	silver 113	NT2	thallium 183	NT2	actinium 236
NT2	silver 115	NT2	thallium 185	NT2	aluminium 22
NT2	silver 117	NT2	thallium 187	NT2	aluminium 24
NT2	silver 119	NT2	thallium 189	NT2	aluminium 26
NT2	silver 121	NT2	thallium 191	NT2	aluminium 28
NT2	silver 123	NT2	thallium 193	NT2	aluminium 30
NT2	silver 125	NT2	thallium 195	NT2	aluminium 32
NT2	silver 127	NT2	thallium 197	NT2	aluminium 34
NT2	silver 129	NT2	thallium 199	NT2	aluminium 36
NT2	silver 93	NT2	thallium 201	NT2	aluminium 38
NT2	silver 95	NT2	thallium 203	NT2	aluminium 40
NT2	silver 97	NT2	thallium 205	NT2	aluminium 42
NT2	silver 99	NT2	thallium 207	NT2	americium 232
NT2	sodium 19	NT2	thallium 209	NT2	americium 234
NT2	sodium 21	NT2	thallium 211	NT2	americium 236
NT2	sodium 23	NT2	thulium 145	NT2	americium 238
NT2	sodium 25	NT2	thulium 147	NT2	americium 240
NT2	sodium 27	NT2	thulium 149	NT2	americium 242
NT2	sodium 29	NT2	thulium 151	NT2	americium 244
NT2	sodium 31	NT2	thulium 153	NT2	americium 246
NT2	sodium 33	NT2	thulium 155	NT2	americium 248
NT2	sodium 35	NT2	thulium 157	NT2	antimony 104
NT2	sodium 37	NT2	thulium 159	NT2	antimony 106
NT2	tantalum 155	NT2	thulium 161	NT2	antimony 108
NT2	tantalum 157	NT2	thulium 163	NT2	antimony 110
NT2	tantalum 159	NT2	thulium 165	NT2	antimony 112
NT2	tantalum 161	NT2	thulium 167	NT2	antimony 114
NT2	tantalum 163	NT2	thulium 169	NT2	antimony 116
NT2	tantalum 165	NT2	thulium 171	NT2	antimony 118
NT2	tantalum 167	NT2	thulium 173	NT2	antimony 120
NT2	tantalum 169	NT2	thulium 175	NT2	antimony 122
NT2	tantalum 171	NT2	thulium 177	NT2	antimony 124
NT2	tantalum 173	NT2	thulium 179	NT2	antimony 126
NT2	tantalum 175	NT2	tritium	NT2	antimony 128
NT2	tantalum 177	NT2	vanadium 41	NT2	antimony 130
NT2	tantalum 179	NT2	vanadium 43	NT2	antimony 132
NT2	tantalum 181	NT2	vanadium 45	NT2	antimony 134
NT2	tantalum 183	NT2	vanadium 47	NT2	antimony 136
NT2	tantalum 185	NT2	vanadium 49	NT2	antimony 138
NT2	tantalum 187	NT2	vanadium 51	NT2	arsenic 60
NT2	tantalum 189	NT2	vanadium 53	NT2	arsenic 62
NT2	technetium 101	NT2	vanadium 55	NT2	arsenic 64
NT2	technetium 103	NT2	vanadium 57	NT2	arsenic 66
NT2	technetium 105	NT2	vanadium 59	NT2	arsenic 68
NT2	technetium 107	NT2	vanadium 61	NT2	arsenic 70
NT2	technetium 109	NT2	vanadium 63	NT2	arsenic 72
NT2	technetium 113	NT2	vanadium 65	NT2	arsenic 74
NT2	technetium 115	NT2	yttrium 101	NT2	arsenic 76
NT2	technetium 117	NT2	yttrium 103	NT2	arsenic 78
NT2	technetium 85	NT2	yttrium 105	NT2	arsenic 80
NT2	technetium 87	NT2	yttrium 107	NT2	arsenic 82
NT2	technetium 89	NT2	yttrium 77	NT2	arsenic 84
NT2	technetium 91	NT2	yttrium 79	NT2	arsenic 86
NT2	technetium 93	NT2	yttrium 81	NT2	arsenic 88
NT2	technetium 95	NT2	yttrium 83	NT2	arsenic 90
NT2	technetium 97	NT2	yttrium 85	NT2	arsenic 92
NT2	technetium 99	NT2	yttrium 87	NT2	astatine 192
NT2	terbium 135	NT2	yttrium 89	NT2	astatine 194
NT2	terbium 137	NT2	yttrium 91	NT2	astatine 196
NT2	terbium 139	NT2	yttrium 93	NT2	astatine 198
NT2	terbium 141	NT2	yttrium 95	NT2	astatine 200
NT2	terbium 143	NT2	yttrium 97	NT2	astatine 202
NT2	terbium 145	NT2	yttrium 99	NT2	astatine 204
NT2	terbium 147	NT1	odd-odd nuclei	NT2	astatine 206
NT2	terbium 149	NT2	actinium 206	NT2	astatine 208
NT2	terbium 151	NT2	actinium 208	NT2	astatine 210
NT2	terbium 153	NT2	actinium 210	NT2	astatine 212
NT2	terbium 155	NT2	actinium 212	NT2	astatine 214
NT2	terbium 157	NT2	actinium 214	NT2	astatine 216
NT2	terbium 159	NT2	actinium 216	NT2	astatine 218
NT2	terbium 161	NT2	actinium 218	NT2	astatine 220
NT2	terbium 163	NT2	actinium 220	NT2	astatine 222
NT2	terbium 165	NT2	actinium 222	NT2	berkelium 236

NT2	berkelium 238	NT2	chlorine 36	NT2	fluorine 20
NT2	berkelium 240	NT2	chlorine 38	NT2	fluorine 22
NT2	berkelium 242	NT2	chlorine 40	NT2	fluorine 24
NT2	berkelium 244	NT2	chlorine 42	NT2	fluorine 26
NT2	berkelium 246	NT2	chlorine 44	NT2	fluorine 28
NT2	berkelium 248	NT2	chlorine 46	NT2	fluorine 30
NT2	berkelium 250	NT2	chlorine 48	NT2	francium 200
NT2	berkelium 252	NT2	chlorine 50	NT2	francium 202
NT2	berkelium 254	NT2	cobalt 50	NT2	francium 204
NT2	bismuth 184	NT2	cobalt 52	NT2	francium 206
NT2	bismuth 186	NT2	cobalt 54	NT2	francium 208
NT2	bismuth 188	NT2	cobalt 56	NT2	francium 210
NT2	bismuth 190	NT2	cobalt 58	NT2	francium 212
NT2	bismuth 192	NT2	cobalt 60	NT2	francium 214
NT2	bismuth 194	NT2	cobalt 62	NT2	francium 216
NT2	bismuth 196	NT2	cobalt 64	NT2	francium 218
NT2	bismuth 198	NT2	cobalt 66	NT2	francium 220
NT2	bismuth 200	NT2	cobalt 68	NT2	francium 222
NT2	bismuth 202	NT2	cobalt 70	NT2	francium 224
NT2	bismuth 204	NT2	cobalt 72	NT2	francium 226
NT2	bismuth 206	NT2	cobalt 74	NT2	francium 228
NT2	bismuth 208	NT2	copper 52	NT2	francium 230
NT2	bismuth 210	NT2	copper 54	NT2	francium 232
NT2	bismuth 212	NT2	copper 56	NT2	gallium 56
NT2	bismuth 214	NT2	copper 58	NT2	gallium 58
NT2	bismuth 216	NT2	copper 60	NT2	gallium 60
NT2	bismuth 218	NT2	copper 62	NT2	gallium 62
NT2	bohrium 260	NT2	copper 64	NT2	gallium 64
NT2	bohrium 262	NT2	copper 66	NT2	gallium 66
NT2	bohrium 264	NT2	copper 68	NT2	gallium 68
NT2	bohrium 266	NT2	copper 70	NT2	gallium 70
NT2	bohrium 272	NT2	copper 72	NT2	gallium 72
NT2	bohrium 274	NT2	copper 74	NT2	gallium 74
NT2	boron 10	NT2	copper 76	NT2	gallium 76
NT2	boron 12	NT2	copper 78	NT2	gallium 78
NT2	boron 14	NT2	copper 80	NT2	gallium 80
NT2	boron 16	NT2	deuterium	NT2	gallium 82
NT2	boron 18	NT2	dubnium 256	NT2	gallium 84
NT2	boron 6	NT2	dubnium 258	NT2	gallium 86
NT2	boron 8	NT2	dubnium 260	NT2	gold 170
NT2	bromine 68	NT2	dubnium 262	NT2	gold 172
NT2	bromine 70	NT2	dubnium 264	NT2	gold 174
NT2	bromine 72	NT2	dubnium 266	NT2	gold 176
NT2	bromine 74	NT2	dubnium 268	NT2	gold 178
NT2	bromine 76	NT2	einsteinium 240	NT2	gold 180
NT2	bromine 78	NT2	einsteinium 242	NT2	gold 182
NT2	bromine 80	NT2	einsteinium 244	NT2	gold 184
NT2	bromine 82	NT2	einsteinium 246	NT2	gold 186
NT2	bromine 84	NT2	einsteinium 248	NT2	gold 188
NT2	bromine 86	NT2	einsteinium 250	NT2	gold 190
NT2	bromine 88	NT2	einsteinium 252	NT2	gold 192
NT2	bromine 90	NT2	einsteinium 254	NT2	gold 194
NT2	bromine 92	NT2	einsteinium 256	NT2	gold 196
NT2	bromine 94	NT2	einsteinium 258	NT2	gold 198
NT2	bromine 96	NT2	element 113 278	NT2	gold 200
NT2	cesium 112	NT2	element 113 284	NT2	gold 202
NT2	cesium 114	NT2	element 115 288	NT2	gold 204
NT2	cesium 116	NT2	europium 130	NT2	holmium 140
NT2	cesium 118	NT2	europium 132	NT2	holmium 142
NT2	cesium 120	NT2	europium 134	NT2	holmium 144
NT2	cesium 122	NT2	europium 136	NT2	holmium 146
NT2	cesium 124	NT2	europium 138	NT2	holmium 148
NT2	cesium 126	NT2	europium 140	NT2	holmium 150
NT2	cesium 128	NT2	europium 142	NT2	holmium 152
NT2	cesium 130	NT2	europium 144	NT2	holmium 154
NT2	cesium 132	NT2	europium 146	NT2	holmium 156
NT2	cesium 134	NT2	europium 148	NT2	holmium 158
NT2	cesium 136	NT2	europium 150	NT2	holmium 160
NT2	cesium 138	NT2	europium 152	NT2	holmium 162
NT2	cesium 140	NT2	europium 154	NT2	holmium 164
NT2	cesium 142	NT2	europium 156	NT2	holmium 166
NT2	cesium 144	NT2	europium 158	NT2	holmium 168
NT2	cesium 146	NT2	europium 160	NT2	holmium 170
NT2	cesium 148	NT2	europium 162	NT2	holmium 172
NT2	cesium 150	NT2	europium 164	NT2	holmium 174
NT2	chlorine 28	NT2	europium 166	NT2	hydrogen 4
NT2	chlorine 30	NT2	fluorine 14	NT2	hydrogen 6
NT2	chlorine 32	NT2	fluorine 16	NT2	indium 100
NT2	chlorine 34	NT2	fluorine 18	NT2	indium 102

NT2	indium 104	NT2	lawrencium 264	NT2	nitrogen 10
NT2	indium 106	NT2	lawrencium 266	NT2	nitrogen 12
NT2	indium 108	NT2	lithium 10	NT2	nitrogen 14
NT2	indium 110	NT2	lithium 12	NT2	nitrogen 16
NT2	indium 112	NT2	lithium 4	NT2	nitrogen 18
NT2	indium 114	NT2	lithium 6	NT2	nitrogen 20
NT2	indium 116	NT2	lithium 8	NT2	nitrogen 22
NT2	indium 118	NT2	lutetium 150	NT2	nitrogen 24
NT2	indium 120	NT2	lutetium 152	NT2	phosphorus 24
NT2	indium 122	NT2	lutetium 154	NT2	phosphorus 26
NT2	indium 124	NT2	lutetium 156	NT2	phosphorus 28
NT2	indium 126	NT2	lutetium 158	NT2	phosphorus 30
NT2	indium 128	NT2	lutetium 160	NT2	phosphorus 32
NT2	indium 130	NT2	lutetium 162	NT2	phosphorus 34
NT2	indium 132	NT2	lutetium 164	NT2	phosphorus 36
NT2	indium 134	NT2	lutetium 166	NT2	phosphorus 38
NT2	indium 98	NT2	lutetium 168	NT2	phosphorus 40
NT2	iodine 108	NT2	lutetium 170	NT2	phosphorus 42
NT2	iodine 110	NT2	lutetium 172	NT2	phosphorus 44
NT2	iodine 112	NT2	lutetium 174	NT2	phosphorus 46
NT2	iodine 114	NT2	lutetium 176	NT2	potassium 32
NT2	iodine 116	NT2	lutetium 178	NT2	potassium 34
NT2	iodine 118	NT2	lutetium 180	NT2	potassium 36
NT2	iodine 120	NT2	lutetium 182	NT2	potassium 38
NT2	iodine 122	NT2	lutetium 184	NT2	potassium 40
NT2	iodine 124	NT2	manganese 44	NT2	potassium 42
NT2	iodine 126	NT2	manganese 46	NT2	potassium 44
NT2	iodine 128	NT2	manganese 48	NT2	potassium 46
NT2	iodine 130	NT2	manganese 50	NT2	potassium 48
NT2	iodine 132	NT2	manganese 52	NT2	potassium 50
NT2	iodine 134	NT2	manganese 54	NT2	potassium 52
NT2	iodine 136	NT2	manganese 56	NT2	potassium 54
NT2	iodine 138	NT2	manganese 58	NT2	praseodymium 122
NT2	iodine 140	NT2	manganese 60	NT2	praseodymium 124
NT2	iodine 142	NT2	manganese 62	NT2	praseodymium 126
NT2	iodine 144	NT2	manganese 64	NT2	praseodymium 128
NT2	iridium 164	NT2	manganese 66	NT2	praseodymium 130
NT2	iridium 166	NT2	manganese 68	NT2	praseodymium 132
NT2	iridium 168	NT2	meitnerium 266	NT2	praseodymium 134
NT2	iridium 170	NT2	meitnerium 268	NT2	praseodymium 136
NT2	iridium 172	NT2	meitnerium 270	NT2	praseodymium 138
NT2	iridium 174	NT2	meitnerium 272	NT2	praseodymium 140
NT2	iridium 176	NT2	meitnerium 274	NT2	praseodymium 142
NT2	iridium 178	NT2	meitnerium 276	NT2	praseodymium 144
NT2	iridium 180	NT2	mendelevium 246	NT2	praseodymium 146
NT2	iridium 182	NT2	mendelevium 248	NT2	praseodymium 148
NT2	iridium 184	NT2	mendelevium 250	NT2	praseodymium 150
NT2	iridium 186	NT2	mendelevium 252	NT2	praseodymium 152
NT2	iridium 188	NT2	mendelevium 254	NT2	praseodymium 154
NT2	iridium 190	NT2	mendelevium 256	NT2	praseodymium 156
NT2	iridium 192	NT2	mendelevium 258	NT2	praseodymium 158
NT2	iridium 194	NT2	mendelevium 260	NT2	promethium 126
NT2	iridium 196	NT2	mendelevium 262	NT2	promethium 128
NT2	iridium 198	NT2	neptunium 226	NT2	promethium 130
NT2	lanthanum 118	NT2	neptunium 228	NT2	promethium 132
NT2	lanthanum 120	NT2	neptunium 230	NT2	promethium 134
NT2	lanthanum 122	NT2	neptunium 232	NT2	promethium 136
NT2	lanthanum 124	NT2	neptunium 234	NT2	promethium 138
NT2	lanthanum 126	NT2	neptunium 236	NT2	promethium 140
NT2	lanthanum 128	NT2	neptunium 238	NT2	promethium 142
NT2	lanthanum 130	NT2	neptunium 240	NT2	promethium 144
NT2	lanthanum 132	NT2	neptunium 242	NT2	promethium 146
NT2	lanthanum 134	NT2	neptunium 244	NT2	promethium 148
NT2	lanthanum 136	NT2	niobium 100	NT2	promethium 150
NT2	lanthanum 138	NT2	niobium 102	NT2	promethium 152
NT2	lanthanum 140	NT2	niobium 104	NT2	promethium 154
NT2	lanthanum 142	NT2	niobium 106	NT2	promethium 156
NT2	lanthanum 144	NT2	niobium 108	NT2	promethium 158
NT2	lanthanum 146	NT2	niobium 110	NT2	promethium 160
NT2	lanthanum 148	NT2	niobium 112	NT2	promethium 162
NT2	lanthanum 150	NT2	niobium 82	NT2	protactinium 212
NT2	lanthanum 152	NT2	niobium 84	NT2	protactinium 214
NT2	lanthanum 154	NT2	niobium 86	NT2	protactinium 216
NT2	lawrencium 252	NT2	niobium 88	NT2	protactinium 218
NT2	lawrencium 254	NT2	niobium 90	NT2	protactinium 220
NT2	lawrencium 256	NT2	niobium 92	NT2	protactinium 222
NT2	lawrencium 258	NT2	niobium 94	NT2	protactinium 224
NT2	lawrencium 260	NT2	niobium 96	NT2	protactinium 226
NT2	lawrencium 262	NT2	niobium 98	NT2	protactinium 228

- NT2 protactinium 230  
 NT2 protactinium 232  
 NT2 protactinium 234  
 NT2 protactinium 236  
 NT2 protactinium 238  
 NT2 protactinium 240  
 NT2 rhenium 160  
 NT2 rhenium 162  
 NT2 rhenium 164  
 NT2 rhenium 166  
 NT2 rhenium 168  
 NT2 rhenium 170  
 NT2 rhenium 172  
 NT2 rhenium 174  
 NT2 rhenium 176  
 NT2 rhenium 178  
 NT2 rhenium 180  
 NT2 rhenium 182  
 NT2 rhenium 184  
 NT2 rhenium 186  
 NT2 rhenium 188  
 NT2 rhenium 190  
 NT2 rhenium 192  
 NT2 rhenium 194  
 NT2 rhodium 100  
 NT2 rhodium 102  
 NT2 rhodium 104  
 NT2 rhodium 106  
 NT2 rhodium 108  
 NT2 rhodium 110  
 NT2 rhodium 112  
 NT2 rhodium 114  
 NT2 rhodium 116  
 NT2 rhodium 118  
 NT2 rhodium 120  
 NT2 rhodium 122  
 NT2 rhodium 90  
 NT2 rhodium 92  
 NT2 rhodium 94  
 NT2 rhodium 96  
 NT2 rhodium 98  
 NT2 roentgenium 272  
 NT2 roentgenium 274  
 NT2 roentgenium 280  
 NT2 rubidium 100  
 NT2 rubidium 102  
 NT2 rubidium 72  
 NT2 rubidium 74  
 NT2 rubidium 76  
 NT2 rubidium 78  
 NT2 rubidium 80  
 NT2 rubidium 82  
 NT2 rubidium 84  
 NT2 rubidium 86  
 NT2 rubidium 88  
 NT2 rubidium 90  
 NT2 rubidium 92  
 NT2 rubidium 94  
 NT2 rubidium 96  
 NT2 rubidium 98  
 NT2 scandium 36  
 NT2 scandium 38  
 NT2 scandium 40  
 NT2 scandium 42  
 NT2 scandium 44  
 NT2 scandium 46  
 NT2 scandium 48  
 NT2 scandium 50  
 NT2 scandium 52  
 NT2 scandium 54  
 NT2 scandium 56  
 NT2 scandium 58  
 NT2 scandium 60  
 NT2 silver 100  
 NT2 silver 102  
 NT2 silver 104  
 NT2 silver 106  
 NT2 silver 108  
 NT2 silver 110  
 NT2 silver 112  
 NT2 silver 114  
 NT2 silver 116  
 NT2 silver 118  
 NT2 silver 120  
 NT2 silver 122  
 NT2 silver 124  
 NT2 silver 126  
 NT2 silver 128  
 NT2 silver 130  
 NT2 silver 94  
 NT2 silver 96  
 NT2 silver 98  
 NT2 sodium 18  
 NT2 sodium 20  
 NT2 sodium 22  
 NT2 sodium 24  
 NT2 sodium 26  
 NT2 sodium 28  
 NT2 sodium 30  
 NT2 sodium 32  
 NT2 sodium 34  
 NT2 tantalum 156  
 NT2 tantalum 158  
 NT2 tantalum 160  
 NT2 tantalum 162  
 NT2 tantalum 164  
 NT2 tantalum 166  
 NT2 tantalum 168  
 NT2 tantalum 170  
 NT2 tantalum 172  
 NT2 tantalum 174  
 NT2 tantalum 176  
 NT2 tantalum 178  
 NT2 tantalum 180  
 NT2 tantalum 182  
 NT2 tantalum 184  
 NT2 tantalum 186  
 NT2 tantalum 188  
 NT2 tantalum 190  
 NT2 technetium 100  
 NT2 technetium 102  
 NT2 technetium 104  
 NT2 technetium 106  
 NT2 technetium 108  
 NT2 technetium 110  
 NT2 technetium 112  
 NT2 technetium 114  
 NT2 technetium 116  
 NT2 technetium 118  
 NT2 technetium 86  
 NT2 technetium 88  
 NT2 technetium 90  
 NT2 technetium 92  
 NT2 technetium 94  
 NT2 technetium 96  
 NT2 technetium 98  
 NT2 terbium 136  
 NT2 terbium 138  
 NT2 terbium 140  
 NT2 terbium 142  
 NT2 terbium 144  
 NT2 terbium 146  
 NT2 terbium 148  
 NT2 terbium 150  
 NT2 terbium 152  
 NT2 terbium 154  
 NT2 terbium 156  
 NT2 terbium 158  
 NT2 terbium 160  
 NT2 terbium 162  
 NT2 terbium 164  
 NT2 terbium 166  
 NT2 terbium 168  
 NT2 terbium 170  
 NT2 thallium 176  
 NT2 thallium 178  
 NT2 thallium 180  
 NT2 thallium 182  
 NT2 thallium 184  
 NT2 thallium 186  
 NT2 thallium 188  
 NT2 thallium 190  
 NT2 thallium 192  
 NT2 thallium 194  
 NT2 thallium 196  
 NT2 thallium 198  
 NT2 thallium 200  
 NT2 thallium 202  
 NT2 thallium 204  
 NT2 thallium 206  
 NT2 thallium 208  
 NT2 thallium 210  
 NT2 thallium 212  
 NT2 thulium 144  
 NT2 thulium 146  
 NT2 thulium 148  
 NT2 thulium 150  
 NT2 thulium 152  
 NT2 thulium 154  
 NT2 thulium 156  
 NT2 thulium 158  
 NT2 thulium 160  
 NT2 thulium 162  
 NT2 thulium 164  
 NT2 thulium 166  
 NT2 thulium 168  
 NT2 thulium 170  
 NT2 thulium 172  
 NT2 thulium 174  
 NT2 thulium 176  
 NT2 thulium 178  
 NT2 vanadium 40  
 NT2 vanadium 42  
 NT2 vanadium 44  
 NT2 vanadium 46  
 NT2 vanadium 48  
 NT2 vanadium 50  
 NT2 vanadium 52  
 NT2 vanadium 54  
 NT2 vanadium 56  
 NT2 vanadium 58  
 NT2 vanadium 60  
 NT2 vanadium 62  
 NT2 vanadium 64  
 NT2 yttrium 100  
 NT2 yttrium 102  
 NT2 yttrium 104  
 NT2 yttrium 106  
 NT2 yttrium 108  
 NT2 yttrium 76  
 NT2 yttrium 78  
 NT2 yttrium 80  
 NT2 yttrium 82  
 NT2 yttrium 84  
 NT2 yttrium 86  
 NT2 yttrium 88  
 NT2 yttrium 90  
 NT2 yttrium 92  
 NT2 yttrium 94  
 NT2 yttrium 96  
 NT2 yttrium 98  
 NT1 oriented nuclei  
 RT fundamental constants  
 RT isotopes  
 RT nuclear matter  
 RT nuclear molecules  
 RT nuclear structure  
 RT nuclear temperature  
 RT overhauser effect

**nuclei (cells)**

USE cell nuclei

**NUCLEIC ACID DENATURATION***Breaking of H-bonds between strands of N.A.*

UF denaturation (nucleic acid)

RT decomposition

RT heat treatments

RT molecular structure  
 RT nucleic acids  
 RT ph value

**NUCLEIC ACID HYBRIDIZATION**

*INIS: 1996-05-03; ETDE: 1995-01-04*

\*BT1 genetic engineering  
 NT1 dna hybridization  
 NT2 dna-cloning  
 NT1 in-situ hybridization

**NUCLEIC ACID REPLICATION**

NT1 dna replication

**NUCLEIC ACIDS**

*1996-07-08*

(Prior to August 1996 THYMONUCLEIC ACID was a valid ETDE descriptor.)

UF *thymonucleic acid*  
 BT1 organic compounds  
 NT1 dna  
 NT2 contigs  
 NT2 oligonucleotides  
 NT2 recombinant dna  
 NT1 rna  
 NT2 messenger-rna  
 NT2 ribosomal rna  
 NT2 transfer rna  
 RT biological repair  
 RT cell nuclei  
 RT genetics  
 RT nucleases  
 RT nucleic acid denaturation  
 RT nucleoproteins  
 RT nucleotides  
 RT photoreactivation  
 RT precursor  
 RT ribosides  
 RT two-dimensional electrophoresis

**nucleogenesis**

USE nucleosynthesis

**NUCLEOLI**

\*BT1 cell nuclei  
 RT chromosomes  
 RT human chromosomes  
 RT ribosomal rna  
 RT rna

**NUCLEON-ANTINUCLEON****INTERACTIONS**

\*BT1 baryon-baryon interactions  
 NT1 antiproton-neutron interactions  
 NT1 neutron-antineutron interactions  
 NT1 proton-antineutron interactions  
 NT1 proton-antiproton interactions

**NUCLEON BEAMS**

\*BT1 particle beams  
 NT1 neutron beams  
 NT1 proton beams

**nucleon-deuteron interactions**

*1975-11-27*

*Use more specific terms if known, e.g. PROTON-PROTON INTERACTIONS and PROTON-NEUTRON INTERACTIONS, PROTON-ANTINEUTRON INTERACTIONS and NEUTRON-ANTINEUTRON INTERACTIONS, etc.; otherwise use the descriptor below.*

(Prior to May 1996 this was a valid ETDE descriptor.)

USE baryon-baryon interactions

**NUCLEON-HYPERON****INTERACTIONS**

\*BT1 baryon-baryon interactions

**nucleon isobars**

USE n\*baryons

**NUCLEON-NUCLEON****INTERACTIONS**

\*BT1 baryon-baryon interactions  
 NT1 neutron-neutron interactions  
 NT1 proton-nucleon interactions  
 NT2 proton-neutron interactions  
 NT2 proton-proton interactions  
 RT reid potential  
 RT schiffer potential

**NUCLEON-NUCLEON POTENTIAL**

*1996-07-08*

UF *gammel-brueckner potential*  
 BT1 potentials  
 NT1 gauss potential  
 NT1 hamada-johnston potential  
 NT1 reid potential  
 NT1 schiffer potential  
 NT1 skyrme potential  
 NT1 surface delta potential  
 NT1 yamaguchi potential  
 RT interactions  
 RT jastrow theory  
 RT nuclear models  
 RT nucleons  
 RT ope potential  
 RT resonating-group method  
 RT rosenfeld force  
 RT tabakin potential  
 RT yukawa potential

**NUCLEON REACTIONS**

\*BT1 baryon reactions  
 NT1 antinucleon reactions  
 NT2 antineutron reactions  
 NT2 antiproton reactions  
 NT1 neutron reactions  
 NT2 fast fission  
 NT2 thermal fission  
 NT1 proton reactions

**NUCLEONS**

*1996-07-08*

(Prior to August 1996 STAPP THEORY was a valid ETDE descriptor.)

SF *stapp theory*  
 SF *stapp-ypsilantis-metropolis theory*  
 \*BT1 baryons  
 NT1 antinucleons  
 NT2 antineutrons  
 NT2 antiprotons  
 NT1 neutrons  
 NT2 antineutrons  
 NT2 beta-delayed neutrons  
 NT2 cold neutrons  
 NT3 ultracold neutrons  
 NT2 cosmic neutrons  
 NT2 epithermal neutrons  
 NT2 fast neutrons  
 NT2 fission neutrons  
 NT3 delayed neutrons  
 NT3 prompt neutrons  
 NT2 intermediate neutrons  
 NT2 photoneutrons  
 NT2 pile neutrons  
 NT2 polynucleons  
 NT3 dineutrons  
 NT3 tetraneutrons  
 NT3 trineutrons  
 NT2 resonance neutrons  
 NT2 slow neutrons  
 NT2 solar neutrons  
 NT2 thermal neutrons  
 NT1 photonucleons  
 NT2 photoneutrons  
 NT2 photoprotons  
 NT1 protons  
 NT2 antiprotons  
 NT2 cosmic protons  
 NT2 delayed protons

NT2 diprotons

NT2 photoprotons

NT2 prompt protons

NT2 solar protons

NT2 trapped protons

RT brueckner method  
 RT charge independence  
 RT effective range theory  
 RT hard-core potential  
 RT levinger-bethe theory  
 RT nucleon-nucleon potential  
 RT ope potential  
 RT pseudovector coupling  
 RT rosenfeld force  
 RT tabakin potential  
 RT wolfenstein parameters  
 RT yamaguchi potential  
 RT yukawa potential

**NUCLEOPROTEINS**

*1995-01-10*

\*BT1 proteins  
 RT dna-ase  
 RT dna methylases  
 RT dna polymerases  
 RT endonucleases  
 RT gene recombination proteins  
 RT gene repressors  
 RT histones  
 RT nucleases  
 RT nucleic acids  
 RT protamines  
 RT rna polymerases  
 RT rna processing  
 RT splicing  
 RT transcription factors

**NUCLEOSIDES**

\*BT1 nucleotides  
 BT1 ribosides  
 NT1 adenosine  
 NT1 budr  
 NT1 cytidine  
 NT1 deoxycytidine  
 NT1 deoxyuridine  
 NT1 fudr  
 NT1 guanosine  
 NT1 inosine  
 NT1 iododeoxyuridine  
 NT1 thymidine  
 NT1 uridine  
 RT biological indicators  
 RT purines  
 RT pyrimidines

**NUCLEOSOMES**

*INIS: 1984-08-23; ETDE: 1980-04-14*

*Chromatin subunits composed of DNA-histone complexes.*

BT1 chromatin  
 RT dna  
 RT histones

**NUCLEOSYNTHESIS**

UF *nucleogenesis*  
 BT1 synthesis  
 NT1 heavy ion fusion reactions  
 NT1 thermonuclear reactions  
 NT2 impact fusion  
 NT2 muon-catalyzed fusion  
 RT carbon burning  
 RT cno cycle  
 RT cosmochemistry  
 RT helium burning  
 RT hydrogen burning  
 RT origin  
 RT r process  
 RT s process  
 RT stars

**NUCLEOTIDASES**

Code number 3.1.3.31, 3.1.3.5, and 3.1.3.6.

\*BT1 phosphatases

**nucleotide dehydrogenases**

INIS: 2000-04-12; ETDE: 1981-01-12

Code number 1.6.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE oxidoreductases

**NUCLEOTIDES**

1996-07-18

(CYTRIPHOS and DEOXYCYTIDYLIC ACID have been valid ETDE descriptors.)

UF cytriphos

UF deoxycytidylic acid

BT1 organic compounds

NT1 adenylic acid

NT1 adp

NT1 amp

NT1 atp

NT1 cytidylic acid

NT1 guanylic acid

NT1 nad

NT1 nadh2

NT1 nadp

NT1 nucleosides

NT2 adenosine

NT2 budr

NT2 cytidine

NT2 deoxycytidine

NT2 deoxyuridine

NT2 fudr

NT2 guanosine

NT2 inosine

NT2 iododeoxyuridine

NT2 thymidine

NT2 uridine

NT1 thymidylic acid

NT1 ump

NT1 uridine diphosphoglucose

NT1 uridylic acid

NT1 utp

RT codons

RT dna sequencing

RT hypoxanthine

RT nucleic acids

RT oligonucleotides

RT organic acids

**NUCLEOTIDYLTRANSFERASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 2.7.7.

\*BT1 phosphorus-group transferases

NT1 polymerases

NT2 dna polymerases

NT2 rna polymerases

**nuclides**

USE isotopes

**numak reactors**

INIS: 1982-11-30; ETDE: 1978-10-23

University of Wisconsin Tokamak upgrade of UWMAK I, II, and III.

USE uwmak devices

**NUMATRON ACCELERATOR**

INIS: 1984-02-22; ETDE: 1984-03-06

\*BT1 heavy ion accelerators

**NUMBER CODES**

BT1 computer codes

**NUMERICAL ANALYSIS**

INIS: 1992-02-24; ETDE: 1976-01-23

Study of approximation methods using arithmetic techniques.

BT1 mathematics

RT computer calculations

RT computerized simulation

RT numerical solution

RT prony method

**NUMERICAL DATA**

INIS: 1996-03-12; ETDE: 1979-02-27

Use only in conjunction with literary indicator

N for data flagging.

\*BT1 data

NT1 compiled data

NT1 evaluated data

NT1 experimental data

NT1 financial data

NT1 statistical data

NT1 theoretical data

**numerical data tagging**

INIS: 1999-05-13; ETDE: 1980-05-23

USE data tagging

**NUMERICAL SOLUTION**

For the procedure only.

BT1 mathematical solutions

NT1 collision probability method

NT1 extrapolation

NT1 finite difference method

NT1 finite element method

NT2 boundary element method

NT1 interpolation

NT1 maximum-likelihood fit

NT2 least square fit

NT1 runge-kutta method

RT calculation methods

RT galerkin-petrov method

RT iterative methods

RT newton method

RT numerical analysis

**NUNAVUT**

2006-07-28

\*BT1 canada

**NUR REACTOR**

2005-02-11

Unite de Recherche en genie nucleaire (URGN), Draria, Algeria.

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**NUSSELT NUMBER**

BT1 dimensionless numbers

RT boundary layers

RT forced convection

RT thermal conductivity

RT viscosity

**NUTRIENTS**

RT culture media

RT diet

RT eutrophication

RT feeding

RT fertilizers

RT food

RT nutrition

RT plant sap

RT xenobiotics

**NUTRITION**

RT animal breeding

RT animal feeds

RT diet

RT food

RT mass rearing

RT nutrients

RT nutritional deficiency

RT rearing

**NUTRITIONAL DEFICIENCY**

UF deficiency (nutritional)

UF malnutrition

RT diet

RT nutrition

**NUTS**

1982-01-13

(Prior to February 1982, this concept in ETDE was indexed to SEEDS.)

\*BT1 fruits

NT1 chestnuts

**nuts (mechanical)**

INIS: 1982-01-13; ETDE: 1982-02-11

USE fasteners

**nx-188**

INIS: 2000-04-12; ETDE: 1978-12-20

USE alloy-nx-188

**NYLON**

\*BT1 plastics

\*BT1 polyamides

**nymphs**

USE larvae

**NYQUIST DIAGRAMS**

\*BT1 diagrams

RT feedback

RT oscillations

RT reactor stability

**O CODES**

BT1 computer codes

**O-GLYCOSYL HYDROLASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.2.1.

\*BT1 glycosyl hydrolases

NT1 amylase

NT1 cellulase

NT1 galactosidase

NT1 glucosidase

NT1 glucuronidase

NT1 hyaluronidase

NT1 lysozyme

NT1 xylanase

**O GROUPS**

\*BT1 dynamical groups

\*BT1 lie groups

**o-rings**

INIS: 2000-04-12; ETDE: 1986-10-07

USE gaskets

**oak harbor ohio reactor**

ETDE: 2002-04-17

USE davis besse-1 reactor

**OAK RIDGE**

INIS: 1992-07-22; ETDE: 1977-06-24

\*BT1 tennessee

BT1 urban areas

RT oak ridge reservation

RT orgdp

RT ornl

RT y-12 plant

**oak ridge associated universities**

1999-06-18

USE orau

**oak ridge critical experiments facility**

1993-11-09

USE or-cef reactor

**oak ridge gaseous diffusion plant**

USE orgdp

**oak ridge institute of nuclear studies**

INIS: 2000-04-12; ETDE: 1984-12-26

USE orins

**oak ridge national laboratory**

USE ornl

**oak ridge research reactor**

USE orr reactor

**OAK RIDGE RESERVATION**

INIS: 1985-07-23; ETDE: 1985-01-28

DOE-owned land within the Oak Ridge area.

\*BT1 us doe

\*BT1 us erda

RT oak ridge

RT orgdp

RT ornl

RT tennessee

RT y-12 plant

**OAKS**

UF quercus

\*BT1 magnoliopsida

\*BT1 trees

**OAPEC**

INIS: 2000-04-12; ETDE: 1976-08-04

Organization of Arab Petroleum Exporting Countries.

BT1 international organizations

BT1 oil-exporting countries

RT algeria

RT bahrain

RT egyptian arab republic

RT iraq

RT kuwait

RT libyan arab jamahiriya

RT middle east

RT opec

RT petroleum

RT qatar

RT saudi arabia

RT syria

RT united arab emirates

**oas**

INIS: 2000-04-12; ETDE: 1978-03-03

(Prior to February 1995, this was a valid ETDE descriptor.)

USE international organizations

**OATS**

UF avena

\*BT1 cereals

**ob'edinennyj institut yadernykh issledovanij**

INIS: 1984-06-21; ETDE: 2002-04-17

USE jinr

**OBE MODEL**

UF one-boson-exchange model

\*BT1 boson-exchange models

NT1 ope model

NT2 electric born model

**obesity**

USE metabolic diseases

**OBRIGHEIM REACTOR**

UF kernkraftwerk obrigheim

UF kwo reactor

\*BT1 pwr type reactors

**obsidianites**

USE tektites

**obstetrics**

USE gynecology

**OCCIDENTAL FLASH PYROLYSIS PROCESS**

INIS: 2000-04-12; ETDE: 1976-08-04

The ORC process consists of rapidly pyrolyzing particles at a temperature of less

than 1400 degrees F in an entrained stream of hot char and a gas substantially free of oxidizing constituents. Char, liquid and gas are products, with a portion of the char being heated and returned to the pyrolysis reactor. (Prior to July 1976, this concept in ETDE was indexed by GARRETT PYROLYSIS PROCESS.)

UF garrett pyrolysis process

UF orc flash pyrolysis process

\*BT1 coal gasification

\*BT1 coal liquefaction

\*BT1 waste processing

RT oil shales

RT pyrolysis

RT waste processing plants

**occlusion complexes**

USE clathrates

**occultation**

USE eclipse

**OCCUPANTS**

INIS: 1992-02-18; ETDE: 1978-04-05

UF passengers

RT automobiles

RT buildings

RT buses

RT elevators

RT human populations

RT motor vehicle operators

RT recreational vehicles

RT taxicabs

RT trains

RT trucks

RT vans

RT vehicles

**OCCUPATION NUMBER**

RT pauli principle

RT quantum mechanics

RT statistical mechanics

**OCCUPATIONAL DISEASES**

BT1 diseases

RT industrial medicine

RT occupational exposure

RT occupational safety

RT occupations

RT pneumoconioses

RT us occupational safety and health act

RT work

RT working conditions

**OCCUPATIONAL EXPOSURE**

INIS: 1985-04-23; ETDE: 1984-06-29

RT carcinogens

RT icrp critical group

RT ionizing radiations

RT mutagens

RT occupational diseases

RT occupational safety

RT occupations

RT radiation doses

**OCCUPATIONAL SAFETY**

INIS: 1981-02-27; ETDE: 1978-07-05

BT1 safety

RT drug abuse

RT health hazards

RT industrial medicine

RT occupational diseases

RT occupational exposure

RT occupations

RT personnel

RT working conditions

**occupational safety and health act**

INIS: 2000-04-12; ETDE: 1978-11-14

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us occupational safety and health act

**occupational safety and health administration**

INIS: 1993-11-09; ETDE: 1978-06-14

USE us osha

**OCCUPATIONS**

1996-05-14

Nature of work performed.

UF caste (insects)

UF professions

RT craftsmen

RT employment

RT icrp critical group

RT manpower

RT occupational diseases

RT occupational exposure

RT occupational safety

RT personnel

RT personnel dosimetry

RT sociology

RT work

**ocean currents**

INIS: 2000-04-12; ETDE: 1977-04-12

USE water currents

**ocean spreading center**

INIS: 2000-04-12; ETDE: 1985-04-24

USE sea-floor spreading

**OCEAN THERMAL ENERGY CONVERSION**

INIS: 1991-12-11; ETDE: 1977-04-12

UF otec

\*BT1 solar energy conversion

RT ocean thermal power plants

**OCEAN THERMAL POWER PLANTS**

INIS: 1991-12-11; ETDE: 1977-04-12

UF solar sea power plants

\*BT1 solar power plants

\*BT1 thermal power plants

RT lift cycles

RT ocean thermal energy conversion

**OCEANIA**

INIS: 1992-06-04; ETDE: 1978-12-11

Collective name for lands of the central and south Pacific Ocean, including Melanesia, Micronesia, and Polynesia; and sometimes including Australia, New Zealand, and the Malay Archipelago.

UF pacific islands

NT1 micronesia

NT2 kiribati

NT2 marshall islands

NT3 bikini

NT3 eniwetok

NT2 nauru

NT2 tuvalu

NT1 new caledonia

RT australia

RT islands

RT new zealand

**OCEANIC CIRCULATION**

INIS: 1992-01-20; ETDE: 1986-01-15

Large-scale movement of discrete water masses which can be treated by equations of motion.

RT box models

RT general circulation models

RT seas

RT upwelling

RT water currents



**OCEANIC CRUST***INIS: 1986-12-18; ETDE: 1977-09-19*

- BT1 earth crust  
 RT continental crust  
 RT earth planet

**OCEANOGRAPHY**

- RT bathymetry  
 RT buoys  
 RT earth planet  
 RT geography  
 RT limnology  
 RT seas

**oceans**

USE seas

**OCONEE-1 REACTOR***Duke Energy Co., Seneca, South Carolina, USA.*

\*BT1 pwr type reactors

**OCONEE-2 REACTOR***Duke Energy Co., Seneca, South Carolina, USA.*

\*BT1 pwr type reactors

**OCONEE-3 REACTOR***Duke Energy Co., Seneca, South Carolina, USA.*

\*BT1 pwr type reactors

**OCTADECANOIC ACID**

UF stearic acid

\*BT1 monocarboxylic acids

RT stearates

**octadecyl glyceryl ether-alpha***1996-06-26*

(Prior to June 1996 BATYL ALCOHOL was a valid ETDE descriptor.)

USE alcohols

USE ethers

**OCTAL 82 FACILITY***1983-09-06**Neodymium glass laser facility at Limeil, France for laser fusion experiments.*

RT neodymium lasers

**OCTANE**

\*BT1 alkanes

**octane number***2000-04-12*

USE antiknock ratings

**OCTANOIC ACID**

UF caprylic acid

\*BT1 monocarboxylic acids

**OCTANOLS**

UF octyl alcohols

\*BT1 alcohols

**OCTENES***2000-04-12*

\*BT1 alkenes

**OCTET MODEL**

UF eightfold way

\*BT1 particle models

RT baryon octets

**OCTUPOLAR CONFIGURATIONS**

\*BT1 multipolar configurations

**octupole radiation**

USE multipole radiation

**OCTUPOLES**

BT1 multipoles

**octyl alcohols**

USE octanols

**OCTYL RADICALS**

\*BT1 alkyl radicals

**ODD-EVEN NUCLEI***1996-06-17**Odd protons, even neutrons.*

- BT1 nuclei  
 NT1 actinium 207  
 NT1 actinium 209  
 NT1 actinium 211  
 NT1 actinium 213  
 NT1 actinium 215  
 NT1 actinium 217  
 NT1 actinium 219  
 NT1 actinium 221  
 NT1 actinium 223  
 NT1 actinium 225  
 NT1 actinium 227  
 NT1 actinium 229  
 NT1 actinium 231  
 NT1 actinium 233  
 NT1 actinium 235  
 NT1 aluminium 21  
 NT1 aluminium 23  
 NT1 aluminium 25  
 NT1 aluminium 27  
 NT1 aluminium 29  
 NT1 aluminium 31  
 NT1 aluminium 33  
 NT1 aluminium 35  
 NT1 aluminium 37  
 NT1 aluminium 39  
 NT1 aluminium 41  
 NT1 americium 231  
 NT1 americium 233  
 NT1 americium 235  
 NT1 americium 237  
 NT1 americium 239  
 NT1 americium 241  
 NT1 americium 243  
 NT1 americium 245  
 NT1 americium 247  
 NT1 americium 249  
 NT1 antimony 103  
 NT1 antimony 105  
 NT1 antimony 107  
 NT1 antimony 109  
 NT1 antimony 111  
 NT1 antimony 113  
 NT1 antimony 115  
 NT1 antimony 117  
 NT1 antimony 119  
 NT1 antimony 121  
 NT1 antimony 123  
 NT1 antimony 125  
 NT1 antimony 127  
 NT1 antimony 129  
 NT1 antimony 131  
 NT1 antimony 133  
 NT1 antimony 135  
 NT1 antimony 137  
 NT1 antimony 139  
 NT1 arsenic 61  
 NT1 arsenic 63  
 NT1 arsenic 65  
 NT1 arsenic 67  
 NT1 arsenic 69  
 NT1 arsenic 71  
 NT1 arsenic 73  
 NT1 arsenic 75  
 NT1 arsenic 77  
 NT1 arsenic 79  
 NT1 arsenic 81  
 NT1 arsenic 83  
 NT1 arsenic 85  
 NT1 arsenic 87

- NT1 arsenic 89  
 NT1 arsenic 91  
 NT1 astatine 191  
 NT1 astatine 193  
 NT1 astatine 195  
 NT1 astatine 197  
 NT1 astatine 199  
 NT1 astatine 201  
 NT1 astatine 203  
 NT1 astatine 205  
 NT1 astatine 207  
 NT1 astatine 209  
 NT1 astatine 211  
 NT1 astatine 213  
 NT1 astatine 215  
 NT1 astatine 217  
 NT1 astatine 219  
 NT1 astatine 221  
 NT1 astatine 223  
 NT1 berkelium 235  
 NT1 berkelium 237  
 NT1 berkelium 239  
 NT1 berkelium 241  
 NT1 berkelium 243  
 NT1 berkelium 245  
 NT1 berkelium 247  
 NT1 berkelium 249  
 NT1 berkelium 251  
 NT1 berkelium 253  
 NT1 bismuth 185  
 NT1 bismuth 187  
 NT1 bismuth 189  
 NT1 bismuth 191  
 NT1 bismuth 193  
 NT1 bismuth 195  
 NT1 bismuth 197  
 NT1 bismuth 199  
 NT1 bismuth 201  
 NT1 bismuth 203  
 NT1 bismuth 205  
 NT1 bismuth 207  
 NT1 bismuth 209  
 NT1 bismuth 211  
 NT1 bismuth 213  
 NT1 bismuth 215  
 NT1 bismuth 217  
 NT1 bohrium 261  
 NT1 bohrium 263  
 NT1 bohrium 265  
 NT1 bohrium 267  
 NT1 bohrium 271  
 NT1 bohrium 273  
 NT1 bohrium 275  
 NT1 boron 11  
 NT1 boron 13  
 NT1 boron 15  
 NT1 boron 17  
 NT1 boron 19  
 NT1 boron 7  
 NT1 boron 9  
 NT1 bromine 67  
 NT1 bromine 69  
 NT1 bromine 71  
 NT1 bromine 73  
 NT1 bromine 75  
 NT1 bromine 77  
 NT1 bromine 79  
 NT1 bromine 81  
 NT1 bromine 83  
 NT1 bromine 85  
 NT1 bromine 87  
 NT1 bromine 89  
 NT1 bromine 91  
 NT1 bromine 93  
 NT1 bromine 95  
 NT1 bromine 97  
 NT1 cesium 113  
 NT1 cesium 115  
 NT1 cesium 117

NT1 cesium 119	NT1 europium 137	NT1 holmium 147
NT1 cesium 121	NT1 europium 139	NT1 holmium 149
NT1 cesium 123	NT1 europium 141	NT1 holmium 151
NT1 cesium 125	NT1 europium 143	NT1 holmium 153
NT1 cesium 127	NT1 europium 145	NT1 holmium 155
NT1 cesium 129	NT1 europium 147	NT1 holmium 157
NT1 cesium 131	NT1 europium 149	NT1 holmium 159
NT1 cesium 133	NT1 europium 151	NT1 holmium 161
NT1 cesium 135	NT1 europium 153	NT1 holmium 163
NT1 cesium 137	NT1 europium 155	NT1 holmium 165
NT1 cesium 139	NT1 europium 157	NT1 holmium 167
NT1 cesium 141	NT1 europium 159	NT1 holmium 169
NT1 cesium 143	NT1 europium 161	NT1 holmium 171
NT1 cesium 145	NT1 europium 163	NT1 holmium 173
NT1 cesium 147	NT1 europium 165	NT1 holmium 175
NT1 cesium 149	NT1 europium 167	NT1 hydrogen 1
NT1 cesium 151	NT1 fluorine 15	NT1 hydrogen 5
NT1 chlorine 29	NT1 fluorine 17	NT1 hydrogen 7
NT1 chlorine 31	NT1 fluorine 19	NT1 indium 101
NT1 chlorine 33	NT1 fluorine 21	NT1 indium 103
NT1 chlorine 35	NT1 fluorine 23	NT1 indium 105
NT1 chlorine 37	NT1 fluorine 25	NT1 indium 107
NT1 chlorine 39	NT1 fluorine 27	NT1 indium 109
NT1 chlorine 41	NT1 fluorine 29	NT1 indium 111
NT1 chlorine 43	NT1 fluorine 31	NT1 indium 113
NT1 chlorine 45	NT1 francium 199	NT1 indium 115
NT1 chlorine 47	NT1 francium 201	NT1 indium 117
NT1 chlorine 49	NT1 francium 203	NT1 indium 119
NT1 chlorine 51	NT1 francium 205	NT1 indium 121
NT1 cobalt 49	NT1 francium 207	NT1 indium 123
NT1 cobalt 51	NT1 francium 209	NT1 indium 125
NT1 cobalt 53	NT1 francium 211	NT1 indium 127
NT1 cobalt 55	NT1 francium 213	NT1 indium 129
NT1 cobalt 57	NT1 francium 215	NT1 indium 131
NT1 cobalt 59	NT1 francium 217	NT1 indium 133
NT1 cobalt 61	NT1 francium 219	NT1 indium 135
NT1 cobalt 63	NT1 francium 221	NT1 indium 97
NT1 cobalt 65	NT1 francium 223	NT1 indium 99
NT1 cobalt 67	NT1 francium 225	NT1 iodine 109
NT1 cobalt 69	NT1 francium 227	NT1 iodine 111
NT1 cobalt 71	NT1 francium 229	NT1 iodine 113
NT1 cobalt 73	NT1 francium 231	NT1 iodine 115
NT1 cobalt 75	NT1 gallium 57	NT1 iodine 117
NT1 copper 53	NT1 gallium 59	NT1 iodine 119
NT1 copper 55	NT1 gallium 61	NT1 iodine 121
NT1 copper 57	NT1 gallium 63	NT1 iodine 123
NT1 copper 59	NT1 gallium 65	NT1 iodine 125
NT1 copper 61	NT1 gallium 67	NT1 iodine 127
NT1 copper 63	NT1 gallium 69	NT1 iodine 129
NT1 copper 65	NT1 gallium 71	NT1 iodine 131
NT1 copper 67	NT1 gallium 73	NT1 iodine 133
NT1 copper 69	NT1 gallium 75	NT1 iodine 135
NT1 copper 71	NT1 gallium 77	NT1 iodine 137
NT1 copper 73	NT1 gallium 79	NT1 iodine 139
NT1 copper 75	NT1 gallium 81	NT1 iodine 141
NT1 copper 77	NT1 gallium 83	NT1 iodine 143
NT1 copper 79	NT1 gallium 85	NT1 iridium 165
NT1 dubnium 255	NT1 gold 169	NT1 iridium 167
NT1 dubnium 257	NT1 gold 171	NT1 iridium 169
NT1 dubnium 259	NT1 gold 173	NT1 iridium 171
NT1 dubnium 261	NT1 gold 175	NT1 iridium 173
NT1 dubnium 263	NT1 gold 177	NT1 iridium 175
NT1 dubnium 265	NT1 gold 179	NT1 iridium 177
NT1 dubnium 267	NT1 gold 181	NT1 iridium 179
NT1 dubnium 269	NT1 gold 183	NT1 iridium 181
NT1 einsteinium 241	NT1 gold 185	NT1 iridium 183
NT1 einsteinium 243	NT1 gold 187	NT1 iridium 185
NT1 einsteinium 245	NT1 gold 189	NT1 iridium 187
NT1 einsteinium 247	NT1 gold 191	NT1 iridium 189
NT1 einsteinium 249	NT1 gold 193	NT1 iridium 191
NT1 einsteinium 251	NT1 gold 195	NT1 iridium 193
NT1 einsteinium 253	NT1 gold 197	NT1 iridium 195
NT1 einsteinium 255	NT1 gold 199	NT1 iridium 197
NT1 einsteinium 257	NT1 gold 201	NT1 iridium 199
NT1 element 113 283	NT1 gold 203	NT1 lanthanum 117
NT1 element 115 287	NT1 gold 205	NT1 lanthanum 119
NT1 europium 131	NT1 holmium 141	NT1 lanthanum 121
NT1 europium 133	NT1 holmium 143	NT1 lanthanum 123
NT1 europium 135	NT1 holmium 145	NT1 lanthanum 125

NT1	lanthanum 127	NT1	neptunium 233	NT1	promethium 135
NT1	lanthanum 129	NT1	neptunium 235	NT1	promethium 137
NT1	lanthanum 131	NT1	neptunium 237	NT1	promethium 139
NT1	lanthanum 133	NT1	neptunium 239	NT1	promethium 141
NT1	lanthanum 135	NT1	neptunium 241	NT1	promethium 143
NT1	lanthanum 137	NT1	neptunium 243	NT1	promethium 145
NT1	lanthanum 139	NT1	niobium 101	NT1	promethium 147
NT1	lanthanum 141	NT1	niobium 103	NT1	promethium 149
NT1	lanthanum 143	NT1	niobium 105	NT1	promethium 151
NT1	lanthanum 145	NT1	niobium 107	NT1	promethium 153
NT1	lanthanum 147	NT1	niobium 109	NT1	promethium 155
NT1	lanthanum 149	NT1	niobium 111	NT1	promethium 157
NT1	lanthanum 151	NT1	niobium 113	NT1	promethium 159
NT1	lanthanum 153	NT1	niobium 81	NT1	promethium 161
NT1	lanthanum 155	NT1	niobium 83	NT1	promethium 163
NT1	lawrencium 251	NT1	niobium 85	NT1	protactinium 213
NT1	lawrencium 253	NT1	niobium 87	NT1	protactinium 215
NT1	lawrencium 255	NT1	niobium 89	NT1	protactinium 217
NT1	lawrencium 257	NT1	niobium 91	NT1	protactinium 219
NT1	lawrencium 259	NT1	niobium 93	NT1	protactinium 221
NT1	lawrencium 261	NT1	niobium 95	NT1	protactinium 223
NT1	lawrencium 263	NT1	niobium 97	NT1	protactinium 225
NT1	lawrencium 265	NT1	niobium 99	NT1	protactinium 227
NT1	lithium 11	NT1	nitrogen 11	NT1	protactinium 229
NT1	lithium 13	NT1	nitrogen 13	NT1	protactinium 231
NT1	lithium 3	NT1	nitrogen 15	NT1	protactinium 233
NT1	lithium 5	NT1	nitrogen 17	NT1	protactinium 235
NT1	lithium 7	NT1	nitrogen 19	NT1	protactinium 237
NT1	lithium 9	NT1	nitrogen 21	NT1	protactinium 239
NT1	lutetium 151	NT1	nitrogen 23	NT1	rhenium 159
NT1	lutetium 153	NT1	nitrogen 25	NT1	rhenium 161
NT1	lutetium 155	NT1	phosphorus 21	NT1	rhenium 163
NT1	lutetium 157	NT1	phosphorus 25	NT1	rhenium 165
NT1	lutetium 159	NT1	phosphorus 27	NT1	rhenium 167
NT1	lutetium 161	NT1	phosphorus 29	NT1	rhenium 169
NT1	lutetium 163	NT1	phosphorus 31	NT1	rhenium 171
NT1	lutetium 165	NT1	phosphorus 33	NT1	rhenium 173
NT1	lutetium 167	NT1	phosphorus 35	NT1	rhenium 175
NT1	lutetium 169	NT1	phosphorus 37	NT1	rhenium 177
NT1	lutetium 171	NT1	phosphorus 39	NT1	rhenium 179
NT1	lutetium 173	NT1	phosphorus 41	NT1	rhenium 181
NT1	lutetium 175	NT1	phosphorus 43	NT1	rhenium 183
NT1	lutetium 177	NT1	phosphorus 45	NT1	rhenium 185
NT1	lutetium 179	NT1	potassium 33	NT1	rhenium 187
NT1	lutetium 181	NT1	potassium 35	NT1	rhenium 189
NT1	lutetium 183	NT1	potassium 37	NT1	rhenium 191
NT1	lutetium 187	NT1	potassium 39	NT1	rhenium 193
NT1	manganese 45	NT1	potassium 41	NT1	rhodium 101
NT1	manganese 47	NT1	potassium 43	NT1	rhodium 103
NT1	manganese 49	NT1	potassium 45	NT1	rhodium 105
NT1	manganese 51	NT1	potassium 47	NT1	rhodium 107
NT1	manganese 53	NT1	potassium 49	NT1	rhodium 109
NT1	manganese 55	NT1	potassium 51	NT1	rhodium 111
NT1	manganese 57	NT1	potassium 53	NT1	rhodium 113
NT1	manganese 59	NT1	potassium 55	NT1	rhodium 115
NT1	manganese 61	NT1	praseodymium 121	NT1	rhodium 117
NT1	manganese 63	NT1	praseodymium 123	NT1	rhodium 119
NT1	manganese 65	NT1	praseodymium 125	NT1	rhodium 121
NT1	manganese 67	NT1	praseodymium 127	NT1	rhodium 89
NT1	manganese 69	NT1	praseodymium 129	NT1	rhodium 91
NT1	meitnerium 265	NT1	praseodymium 131	NT1	rhodium 93
NT1	meitnerium 267	NT1	praseodymium 133	NT1	rhodium 95
NT1	meitnerium 271	NT1	praseodymium 135	NT1	rhodium 97
NT1	meitnerium 273	NT1	praseodymium 137	NT1	rhodium 99
NT1	meitnerium 275	NT1	praseodymium 139	NT1	roentgenium 273
NT1	meitnerium 279	NT1	praseodymium 141	NT1	roentgenium 279
NT1	mendelevium 245	NT1	praseodymium 143	NT1	rubidium 101
NT1	mendelevium 247	NT1	praseodymium 145	NT1	rubidium 103
NT1	mendelevium 249	NT1	praseodymium 147	NT1	rubidium 71
NT1	mendelevium 251	NT1	praseodymium 149	NT1	rubidium 73
NT1	mendelevium 253	NT1	praseodymium 151	NT1	rubidium 75
NT1	mendelevium 255	NT1	praseodymium 153	NT1	rubidium 77
NT1	mendelevium 257	NT1	praseodymium 155	NT1	rubidium 79
NT1	mendelevium 259	NT1	praseodymium 157	NT1	rubidium 81
NT1	mendelevium 261	NT1	praseodymium 159	NT1	rubidium 83
NT1	neptunium 225	NT1	promethium 127	NT1	rubidium 85
NT1	neptunium 227	NT1	promethium 129	NT1	rubidium 87
NT1	neptunium 229	NT1	promethium 131	NT1	rubidium 89
NT1	neptunium 231	NT1	promethium 133	NT1	rubidium 91

NT1 rubidium 93  
 NT1 rubidium 95  
 NT1 rubidium 97  
 NT1 rubidium 99  
 NT1 scandium 37  
 NT1 scandium 39  
 NT1 scandium 41  
 NT1 scandium 43  
 NT1 scandium 45  
 NT1 scandium 47  
 NT1 scandium 49  
 NT1 scandium 51  
 NT1 scandium 53  
 NT1 scandium 55  
 NT1 scandium 57  
 NT1 scandium 59  
 NT1 silver 101  
 NT1 silver 103  
 NT1 silver 105  
 NT1 silver 107  
 NT1 silver 109  
 NT1 silver 111  
 NT1 silver 113  
 NT1 silver 115  
 NT1 silver 117  
 NT1 silver 119  
 NT1 silver 121  
 NT1 silver 123  
 NT1 silver 125  
 NT1 silver 127  
 NT1 silver 129  
 NT1 silver 93  
 NT1 silver 95  
 NT1 silver 97  
 NT1 silver 99  
 NT1 sodium 19  
 NT1 sodium 21  
 NT1 sodium 23  
 NT1 sodium 25  
 NT1 sodium 27  
 NT1 sodium 29  
 NT1 sodium 31  
 NT1 sodium 33  
 NT1 sodium 35  
 NT1 sodium 37  
 NT1 tantalum 155  
 NT1 tantalum 157  
 NT1 tantalum 159  
 NT1 tantalum 161  
 NT1 tantalum 163  
 NT1 tantalum 165  
 NT1 tantalum 167  
 NT1 tantalum 169  
 NT1 tantalum 171  
 NT1 tantalum 173  
 NT1 tantalum 175  
 NT1 tantalum 177  
 NT1 tantalum 179  
 NT1 tantalum 181  
 NT1 tantalum 183  
 NT1 tantalum 185  
 NT1 tantalum 187  
 NT1 tantalum 189  
 NT1 technetium 101  
 NT1 technetium 103  
 NT1 technetium 105  
 NT1 technetium 107  
 NT1 technetium 109  
 NT1 technetium 113  
 NT1 technetium 115  
 NT1 technetium 117  
 NT1 technetium 85  
 NT1 technetium 87  
 NT1 technetium 89  
 NT1 technetium 91  
 NT1 technetium 93  
 NT1 technetium 95  
 NT1 technetium 97  
 NT1 technetium 99

NT1 terbium 135  
 NT1 terbium 137  
 NT1 terbium 139  
 NT1 terbium 141  
 NT1 terbium 143  
 NT1 terbium 145  
 NT1 terbium 147  
 NT1 terbium 149  
 NT1 terbium 151  
 NT1 terbium 153  
 NT1 terbium 155  
 NT1 terbium 157  
 NT1 terbium 159  
 NT1 terbium 161  
 NT1 terbium 163  
 NT1 terbium 165  
 NT1 terbium 167  
 NT1 terbium 169  
 NT1 terbium 171  
 NT1 thallium 177  
 NT1 thallium 179  
 NT1 thallium 181  
 NT1 thallium 183  
 NT1 thallium 185  
 NT1 thallium 187  
 NT1 thallium 189  
 NT1 thallium 191  
 NT1 thallium 193  
 NT1 thallium 195  
 NT1 thallium 197  
 NT1 thallium 199  
 NT1 thallium 201  
 NT1 thallium 203  
 NT1 thallium 205  
 NT1 thallium 207  
 NT1 thallium 209  
 NT1 thallium 211  
 NT1 thulium 145  
 NT1 thulium 147  
 NT1 thulium 149  
 NT1 thulium 151  
 NT1 thulium 153  
 NT1 thulium 155  
 NT1 thulium 157  
 NT1 thulium 159  
 NT1 thulium 161  
 NT1 thulium 163  
 NT1 thulium 165  
 NT1 thulium 167  
 NT1 thulium 169  
 NT1 thulium 171  
 NT1 thulium 173  
 NT1 thulium 175  
 NT1 thulium 177  
 NT1 thulium 179  
 NT1 tritium  
 NT1 vanadium 41  
 NT1 vanadium 43  
 NT1 vanadium 45  
 NT1 vanadium 47  
 NT1 vanadium 49  
 NT1 vanadium 51  
 NT1 vanadium 53  
 NT1 vanadium 55  
 NT1 vanadium 57  
 NT1 vanadium 59  
 NT1 vanadium 61  
 NT1 vanadium 63  
 NT1 vanadium 65  
 NT1 yttrium 101  
 NT1 yttrium 103  
 NT1 yttrium 105  
 NT1 yttrium 107  
 NT1 yttrium 77  
 NT1 yttrium 79  
 NT1 yttrium 81  
 NT1 yttrium 83  
 NT1 yttrium 85  
 NT1 yttrium 87

NT1 yttrium 89  
 NT1 yttrium 91  
 NT1 yttrium 93  
 NT1 yttrium 95  
 NT1 yttrium 97  
 NT1 yttrium 99  
 RT nuclear structure

## ODD-ODD NUCLEI

1997-06-05

*Odd protons, odd neutrons.*

BT1 nuclei  
 NT1 actinium 206  
 NT1 actinium 208  
 NT1 actinium 210  
 NT1 actinium 212  
 NT1 actinium 214  
 NT1 actinium 216  
 NT1 actinium 218  
 NT1 actinium 220  
 NT1 actinium 222  
 NT1 actinium 224  
 NT1 actinium 226  
 NT1 actinium 228  
 NT1 actinium 230  
 NT1 actinium 232  
 NT1 actinium 234  
 NT1 actinium 236  
 NT1 aluminium 22  
 NT1 aluminium 24  
 NT1 aluminium 26  
 NT1 aluminium 28  
 NT1 aluminium 30  
 NT1 aluminium 32  
 NT1 aluminium 34  
 NT1 aluminium 36  
 NT1 aluminium 38  
 NT1 aluminium 40  
 NT1 aluminium 42  
 NT1 americium 232  
 NT1 americium 234  
 NT1 americium 236  
 NT1 americium 238  
 NT1 americium 240  
 NT1 americium 242  
 NT1 americium 244  
 NT1 americium 246  
 NT1 americium 248  
 NT1 antimony 104  
 NT1 antimony 106  
 NT1 antimony 108  
 NT1 antimony 110  
 NT1 antimony 112  
 NT1 antimony 114  
 NT1 antimony 116  
 NT1 antimony 118  
 NT1 antimony 120  
 NT1 antimony 122  
 NT1 antimony 124  
 NT1 antimony 126  
 NT1 antimony 128  
 NT1 antimony 130  
 NT1 antimony 132  
 NT1 antimony 134  
 NT1 antimony 136  
 NT1 antimony 138  
 NT1 arsenic 60  
 NT1 arsenic 62  
 NT1 arsenic 64  
 NT1 arsenic 66  
 NT1 arsenic 68  
 NT1 arsenic 70  
 NT1 arsenic 72  
 NT1 arsenic 74  
 NT1 arsenic 76  
 NT1 arsenic 78  
 NT1 arsenic 80  
 NT1 arsenic 82  
 NT1 arsenic 84

NTI arsenic 86	NTI cesium 118	NTI europium 132
NTI arsenic 88	NTI cesium 120	NTI europium 134
NTI arsenic 90	NTI cesium 122	NTI europium 136
NTI arsenic 92	NTI cesium 124	NTI europium 138
NTI astatine 192	NTI cesium 126	NTI europium 140
NTI astatine 194	NTI cesium 128	NTI europium 142
NTI astatine 196	NTI cesium 130	NTI europium 144
NTI astatine 198	NTI cesium 132	NTI europium 146
NTI astatine 200	NTI cesium 134	NTI europium 148
NTI astatine 202	NTI cesium 136	NTI europium 150
NTI astatine 204	NTI cesium 138	NTI europium 152
NTI astatine 206	NTI cesium 140	NTI europium 154
NTI astatine 208	NTI cesium 142	NTI europium 156
NTI astatine 210	NTI cesium 144	NTI europium 158
NTI astatine 212	NTI cesium 146	NTI europium 160
NTI astatine 214	NTI cesium 148	NTI europium 162
NTI astatine 216	NTI cesium 150	NTI europium 164
NTI astatine 218	NTI chlorine 28	NTI europium 166
NTI astatine 220	NTI chlorine 30	NTI fluorine 14
NTI astatine 222	NTI chlorine 32	NTI fluorine 16
NTI berkelium 236	NTI chlorine 34	NTI fluorine 18
NTI berkelium 238	NTI chlorine 36	NTI fluorine 20
NTI berkelium 240	NTI chlorine 38	NTI fluorine 22
NTI berkelium 242	NTI chlorine 40	NTI fluorine 24
NTI berkelium 244	NTI chlorine 42	NTI fluorine 26
NTI berkelium 246	NTI chlorine 44	NTI fluorine 28
NTI berkelium 248	NTI chlorine 46	NTI fluorine 30
NTI berkelium 250	NTI chlorine 48	NTI francium 200
NTI berkelium 252	NTI chlorine 50	NTI francium 202
NTI berkelium 254	NTI cobalt 50	NTI francium 204
NTI bismuth 184	NTI cobalt 52	NTI francium 206
NTI bismuth 186	NTI cobalt 54	NTI francium 208
NTI bismuth 188	NTI cobalt 56	NTI francium 210
NTI bismuth 190	NTI cobalt 58	NTI francium 212
NTI bismuth 192	NTI cobalt 60	NTI francium 214
NTI bismuth 194	NTI cobalt 62	NTI francium 216
NTI bismuth 196	NTI cobalt 64	NTI francium 218
NTI bismuth 198	NTI cobalt 66	NTI francium 220
NTI bismuth 200	NTI cobalt 68	NTI francium 222
NTI bismuth 202	NTI cobalt 70	NTI francium 224
NTI bismuth 204	NTI cobalt 72	NTI francium 226
NTI bismuth 206	NTI cobalt 74	NTI francium 228
NTI bismuth 208	NTI copper 52	NTI francium 230
NTI bismuth 210	NTI copper 54	NTI francium 232
NTI bismuth 212	NTI copper 56	NTI gallium 56
NTI bismuth 214	NTI copper 58	NTI gallium 58
NTI bismuth 216	NTI copper 60	NTI gallium 60
NTI bismuth 218	NTI copper 62	NTI gallium 62
NTI bohrium 260	NTI copper 64	NTI gallium 64
NTI bohrium 262	NTI copper 66	NTI gallium 66
NTI bohrium 264	NTI copper 68	NTI gallium 68
NTI bohrium 266	NTI copper 70	NTI gallium 70
NTI bohrium 272	NTI copper 72	NTI gallium 72
NTI bohrium 274	NTI copper 74	NTI gallium 74
NTI boron 10	NTI copper 76	NTI gallium 76
NTI boron 12	NTI copper 78	NTI gallium 78
NTI boron 14	NTI copper 80	NTI gallium 80
NTI boron 16	NTI deuterium	NTI gallium 82
NTI boron 18	NTI dubnium 256	NTI gallium 84
NTI boron 6	NTI dubnium 258	NTI gallium 86
NTI boron 8	NTI dubnium 260	NTI gold 170
NTI bromine 68	NTI dubnium 262	NTI gold 172
NTI bromine 70	NTI dubnium 264	NTI gold 174
NTI bromine 72	NTI dubnium 266	NTI gold 176
NTI bromine 74	NTI dubnium 268	NTI gold 178
NTI bromine 76	NTI einsteinium 240	NTI gold 180
NTI bromine 78	NTI einsteinium 242	NTI gold 182
NTI bromine 80	NTI einsteinium 244	NTI gold 184
NTI bromine 82	NTI einsteinium 246	NTI gold 186
NTI bromine 84	NTI einsteinium 248	NTI gold 188
NTI bromine 86	NTI einsteinium 250	NTI gold 190
NTI bromine 88	NTI einsteinium 252	NTI gold 192
NTI bromine 90	NTI einsteinium 254	NTI gold 194
NTI bromine 92	NTI einsteinium 256	NTI gold 196
NTI bromine 94	NTI einsteinium 258	NTI gold 198
NTI bromine 96	NTI element 113 278	NTI gold 200
NTI cesium 112	NTI element 113 284	NTI gold 202
NTI cesium 114	NTI element 115 288	NTI gold 204
NTI cesium 116	NTI europium 130	NTI holmium 140

NT1	holmium 142	NT1	lanthanum 126	NT1	neptunium 236
NT1	holmium 144	NT1	lanthanum 128	NT1	neptunium 238
NT1	holmium 146	NT1	lanthanum 130	NT1	neptunium 240
NT1	holmium 148	NT1	lanthanum 132	NT1	neptunium 242
NT1	holmium 150	NT1	lanthanum 134	NT1	neptunium 244
NT1	holmium 152	NT1	lanthanum 136	NT1	niobium 100
NT1	holmium 154	NT1	lanthanum 138	NT1	niobium 102
NT1	holmium 156	NT1	lanthanum 140	NT1	niobium 104
NT1	holmium 158	NT1	lanthanum 142	NT1	niobium 106
NT1	holmium 160	NT1	lanthanum 144	NT1	niobium 108
NT1	holmium 162	NT1	lanthanum 146	NT1	niobium 110
NT1	holmium 164	NT1	lanthanum 148	NT1	niobium 112
NT1	holmium 166	NT1	lanthanum 150	NT1	niobium 82
NT1	holmium 168	NT1	lanthanum 152	NT1	niobium 84
NT1	holmium 170	NT1	lanthanum 154	NT1	niobium 86
NT1	holmium 172	NT1	lawrencium 252	NT1	niobium 88
NT1	holmium 174	NT1	lawrencium 254	NT1	niobium 90
NT1	hydrogen 4	NT1	lawrencium 256	NT1	niobium 92
NT1	hydrogen 6	NT1	lawrencium 258	NT1	niobium 94
NT1	indium 100	NT1	lawrencium 260	NT1	niobium 96
NT1	indium 102	NT1	lawrencium 262	NT1	niobium 98
NT1	indium 104	NT1	lawrencium 264	NT1	nitrogen 10
NT1	indium 106	NT1	lawrencium 266	NT1	nitrogen 12
NT1	indium 108	NT1	lithium 10	NT1	nitrogen 14
NT1	indium 110	NT1	lithium 12	NT1	nitrogen 16
NT1	indium 112	NT1	lithium 4	NT1	nitrogen 18
NT1	indium 114	NT1	lithium 6	NT1	nitrogen 20
NT1	indium 116	NT1	lithium 8	NT1	nitrogen 22
NT1	indium 118	NT1	lutetium 150	NT1	nitrogen 24
NT1	indium 120	NT1	lutetium 152	NT1	phosphorus 24
NT1	indium 122	NT1	lutetium 154	NT1	phosphorus 26
NT1	indium 124	NT1	lutetium 156	NT1	phosphorus 28
NT1	indium 126	NT1	lutetium 158	NT1	phosphorus 30
NT1	indium 128	NT1	lutetium 160	NT1	phosphorus 32
NT1	indium 130	NT1	lutetium 162	NT1	phosphorus 34
NT1	indium 132	NT1	lutetium 164	NT1	phosphorus 36
NT1	indium 134	NT1	lutetium 166	NT1	phosphorus 38
NT1	indium 98	NT1	lutetium 168	NT1	phosphorus 40
NT1	iodine 108	NT1	lutetium 170	NT1	phosphorus 42
NT1	iodine 110	NT1	lutetium 172	NT1	phosphorus 44
NT1	iodine 112	NT1	lutetium 174	NT1	phosphorus 46
NT1	iodine 114	NT1	lutetium 176	NT1	potassium 32
NT1	iodine 116	NT1	lutetium 178	NT1	potassium 34
NT1	iodine 118	NT1	lutetium 180	NT1	potassium 36
NT1	iodine 120	NT1	lutetium 182	NT1	potassium 38
NT1	iodine 122	NT1	lutetium 184	NT1	potassium 40
NT1	iodine 124	NT1	manganese 44	NT1	potassium 42
NT1	iodine 126	NT1	manganese 46	NT1	potassium 44
NT1	iodine 128	NT1	manganese 48	NT1	potassium 46
NT1	iodine 130	NT1	manganese 50	NT1	potassium 48
NT1	iodine 132	NT1	manganese 52	NT1	potassium 50
NT1	iodine 134	NT1	manganese 54	NT1	potassium 52
NT1	iodine 136	NT1	manganese 56	NT1	potassium 54
NT1	iodine 138	NT1	manganese 58	NT1	praseodymium 122
NT1	iodine 140	NT1	manganese 60	NT1	praseodymium 124
NT1	iodine 142	NT1	manganese 62	NT1	praseodymium 126
NT1	iodine 144	NT1	manganese 64	NT1	praseodymium 128
NT1	iridium 164	NT1	manganese 66	NT1	praseodymium 130
NT1	iridium 166	NT1	manganese 68	NT1	praseodymium 132
NT1	iridium 168	NT1	meitnerium 266	NT1	praseodymium 134
NT1	iridium 170	NT1	meitnerium 268	NT1	praseodymium 136
NT1	iridium 172	NT1	meitnerium 270	NT1	praseodymium 138
NT1	iridium 174	NT1	meitnerium 272	NT1	praseodymium 140
NT1	iridium 176	NT1	meitnerium 274	NT1	praseodymium 142
NT1	iridium 178	NT1	meitnerium 276	NT1	praseodymium 144
NT1	iridium 180	NT1	mendelevium 246	NT1	praseodymium 146
NT1	iridium 182	NT1	mendelevium 248	NT1	praseodymium 148
NT1	iridium 184	NT1	mendelevium 250	NT1	praseodymium 150
NT1	iridium 186	NT1	mendelevium 252	NT1	praseodymium 152
NT1	iridium 188	NT1	mendelevium 254	NT1	praseodymium 154
NT1	iridium 190	NT1	mendelevium 256	NT1	praseodymium 156
NT1	iridium 192	NT1	mendelevium 258	NT1	praseodymium 158
NT1	iridium 194	NT1	mendelevium 260	NT1	promethium 126
NT1	iridium 196	NT1	mendelevium 262	NT1	promethium 128
NT1	iridium 198	NT1	neptunium 226	NT1	promethium 130
NT1	lanthanum 118	NT1	neptunium 228	NT1	promethium 132
NT1	lanthanum 120	NT1	neptunium 230	NT1	promethium 134
NT1	lanthanum 122	NT1	neptunium 232	NT1	promethium 136
NT1	lanthanum 124	NT1	neptunium 234	NT1	promethium 138

NTI promethium 140  
NTI promethium 142  
NTI promethium 144  
NTI promethium 146  
NTI promethium 148  
NTI promethium 150  
NTI promethium 152  
NTI promethium 154  
NTI promethium 156  
NTI promethium 158  
NTI promethium 160  
NTI promethium 162  
NTI protactinium 212  
NTI protactinium 214  
NTI protactinium 216  
NTI protactinium 218  
NTI protactinium 220  
NTI protactinium 222  
NTI protactinium 224  
NTI protactinium 226  
NTI protactinium 228  
NTI protactinium 230  
NTI protactinium 232  
NTI protactinium 234  
NTI protactinium 236  
NTI protactinium 238  
NTI protactinium 240  
NTI rhenium 160  
NTI rhenium 162  
NTI rhenium 164  
NTI rhenium 166  
NTI rhenium 168  
NTI rhenium 170  
NTI rhenium 172  
NTI rhenium 174  
NTI rhenium 176  
NTI rhenium 178  
NTI rhenium 180  
NTI rhenium 182  
NTI rhenium 184  
NTI rhenium 186  
NTI rhenium 188  
NTI rhenium 190  
NTI rhenium 192  
NTI rhenium 194  
NTI rhodium 100  
NTI rhodium 102  
NTI rhodium 104  
NTI rhodium 106  
NTI rhodium 108  
NTI rhodium 110  
NTI rhodium 112  
NTI rhodium 114  
NTI rhodium 116  
NTI rhodium 118  
NTI rhodium 120  
NTI rhodium 122  
NTI rhodium 90  
NTI rhodium 92  
NTI rhodium 94  
NTI rhodium 96  
NTI rhodium 98  
NTI roentgenium 272  
NTI roentgenium 274  
NTI roentgenium 280  
NTI rubidium 100  
NTI rubidium 102  
NTI rubidium 72  
NTI rubidium 74  
NTI rubidium 76  
NTI rubidium 78  
NTI rubidium 80  
NTI rubidium 82  
NTI rubidium 84  
NTI rubidium 86  
NTI rubidium 88  
NTI rubidium 90  
NTI rubidium 92  
NTI rubidium 94

NTI rubidium 96  
NTI rubidium 98  
NTI scandium 36  
NTI scandium 38  
NTI scandium 40  
NTI scandium 42  
NTI scandium 44  
NTI scandium 46  
NTI scandium 48  
NTI scandium 50  
NTI scandium 52  
NTI scandium 54  
NTI scandium 56  
NTI scandium 58  
NTI scandium 60  
NTI silver 100  
NTI silver 102  
NTI silver 104  
NTI silver 106  
NTI silver 108  
NTI silver 110  
NTI silver 112  
NTI silver 114  
NTI silver 116  
NTI silver 118  
NTI silver 120  
NTI silver 122  
NTI silver 124  
NTI silver 126  
NTI silver 128  
NTI silver 130  
NTI silver 94  
NTI silver 96  
NTI silver 98  
NTI sodium 18  
NTI sodium 20  
NTI sodium 22  
NTI sodium 24  
NTI sodium 26  
NTI sodium 28  
NTI sodium 30  
NTI sodium 32  
NTI sodium 34  
NTI tantalum 156  
NTI tantalum 158  
NTI tantalum 160  
NTI tantalum 162  
NTI tantalum 164  
NTI tantalum 166  
NTI tantalum 168  
NTI tantalum 170  
NTI tantalum 172  
NTI tantalum 174  
NTI tantalum 176  
NTI tantalum 178  
NTI tantalum 180  
NTI tantalum 182  
NTI tantalum 184  
NTI tantalum 186  
NTI tantalum 188  
NTI tantalum 190  
NTI technetium 100  
NTI technetium 102  
NTI technetium 104  
NTI technetium 106  
NTI technetium 108  
NTI technetium 110  
NTI technetium 112  
NTI technetium 114  
NTI technetium 116  
NTI technetium 118  
NTI technetium 86  
NTI technetium 88  
NTI technetium 90  
NTI technetium 92  
NTI technetium 94  
NTI technetium 96  
NTI technetium 98  
NTI terbium 136

NTI terbium 138  
NTI terbium 140  
NTI terbium 142  
NTI terbium 144  
NTI terbium 146  
NTI terbium 148  
NTI terbium 150  
NTI terbium 152  
NTI terbium 154  
NTI terbium 156  
NTI terbium 158  
NTI terbium 160  
NTI terbium 162  
NTI terbium 164  
NTI terbium 166  
NTI terbium 168  
NTI terbium 170  
NTI thallium 176  
NTI thallium 178  
NTI thallium 180  
NTI thallium 182  
NTI thallium 184  
NTI thallium 186  
NTI thallium 188  
NTI thallium 190  
NTI thallium 192  
NTI thallium 194  
NTI thallium 196  
NTI thallium 198  
NTI thallium 200  
NTI thallium 202  
NTI thallium 204  
NTI thallium 206  
NTI thallium 208  
NTI thallium 210  
NTI thallium 212  
NTI thulium 144  
NTI thulium 146  
NTI thulium 148  
NTI thulium 150  
NTI thulium 152  
NTI thulium 154  
NTI thulium 156  
NTI thulium 158  
NTI thulium 160  
NTI thulium 162  
NTI thulium 164  
NTI thulium 166  
NTI thulium 168  
NTI thulium 170  
NTI thulium 172  
NTI thulium 174  
NTI thulium 176  
NTI thulium 178  
NTI vanadium 40  
NTI vanadium 42  
NTI vanadium 44  
NTI vanadium 46  
NTI vanadium 48  
NTI vanadium 50  
NTI vanadium 52  
NTI vanadium 54  
NTI vanadium 56  
NTI vanadium 58  
NTI vanadium 60  
NTI vanadium 62  
NTI vanadium 64  
NTI yttrium 100  
NTI yttrium 102  
NTI yttrium 104  
NTI yttrium 106  
NTI yttrium 108  
NTI yttrium 76  
NTI yttrium 78  
NTI yttrium 80  
NTI yttrium 82  
NTI yttrium 84  
NTI yttrium 86  
NTI yttrium 88

**NTI** yttrium 90  
**NTI** yttrium 92  
**NTI** yttrium 94  
**NTI** yttrium 96  
**NTI** yttrium 98  
 RT nuclear structure

**odocoileus**

USE deer

**ODOR**

BT1 organoleptic properties  
 RT chemical attractants  
 RT chemoreceptors  
 RT odorization

**ODORANT DISPENSERS**

INIS: 2000-04-12; ETDE: 1981-06-13

BT1 equipment  
 RT odorization

**ODORANTS**

INIS: 2000-04-12; ETDE: 1981-06-13  
*Chemicals such as mercaptans and alkyl sulfides added to gases to aid in leak detection.*

RT odorization

**ODORIZATION**

INIS: 2000-04-12; ETDE: 1977-03-04

UF gas odorization  
 BT1 processing  
 RT odor  
 RT odorant dispensers  
 RT odorants  
 RT odorometers

**ODOROMETERS**

INIS: 2000-04-12; ETDE: 1981-06-13  
*Instruments that measure the concentrations of odorants in gases.*

BT1 measuring instruments  
 RT odorization

**OECD**

UF organization economic co-operation and development

BT1 international organizations

**NTI** nea  
 RT australia  
 RT austria  
 RT belgium  
 RT canada  
 RT czech republic  
 RT denmark  
 RT federal republic of germany  
 RT finland  
 RT france  
 RT greece  
 RT hungary  
 RT iceland  
 RT international energy agency  
 RT ireland  
 RT italy  
 RT japan  
 RT luxembourg  
 RT mexico  
 RT netherlands  
 RT new zealand  
 RT norway  
 RT poland  
 RT portugal  
 RT republic of korea  
 RT spain  
 RT sweden  
 RT switzerland  
 RT turkey  
 RT united kingdom  
 RT usa

**OECD MCMSDRW**

INIS: 1978-08-14; ETDE: 1978-10-19  
*Multilateral Consultation and surveillance Mechanism for Sea Dumping of Radioactive Waste, set up by the OECD Council on 22 July 1977.*

UF consultation mechanism on sea dumping

UF multilateral consultation mechanism, oecd

\*BT1 international regulations

RT contamination

RT lcpmpdpw

RT marine disposal

**oefzs**

INIS: 1988-06-22; ETDE: 2002-04-17

USE seibersdorf research centre

**oer**

USE oxygen enhancement ratio

**OFF-GAS SYSTEMS**

RT air cleaning systems

RT gaseous wastes

RT pollution control equipment

RT scrubbing

**OFF-HIGHWAY USE**

INIS: 2000-04-12; ETDE: 1982-06-07

RT fuel consumption

RT taxes

**OFF-PEAK ENERGY STORAGE**

2000-04-19

\*BT1 energy storage

RT electric batteries

RT fuel cells

RT load management

RT peaking power plants

RT pumped storage

RT redox fuel cells

**OFF-PEAK POWER**

INIS: 1993-01-22; ETDE: 1977-06-02

\*BT1 electric power

RT nuclear power

RT peak-load pricing

RT power demand

RT power plants

RT public utilities

RT time-of-use pricing

**OFFICE BUILDINGS**

1993-03-24

BT1 buildings

RT commercial buildings

RT government buildings

RT office furniture

RT public buildings

**OFFICE FURNITURE**

INIS: 2000-04-12; ETDE: 1983-03-24

RT equipment

RT office buildings

**office of technology assessment**

INIS: 2000-04-12; ETDE: 1981-03-17

USE us ota

**OFFSHORE DRILLING**

1992-01-08

BT1 drilling

BT1 offshore operations

RT marine risers

RT mwd systems

RT offshore platforms

RT offshore sites

**OFFSHORE NUCLEAR POWER PLANTS**

UF floating nuclear power plants

UF platform mounted nuclear plant

\*BT1 nuclear power plants

RT atlantic-1 reactor

RT atlantic-2 reactor

RT estuaries

RT offshore sites

RT reactor sites

RT seas

RT shores

RT site selection

**OFFSHORE OPERATIONS**

INIS: 1992-05-18; ETDE: 1976-03-11

**NTI** offshore drilling

RT buoys

RT diving operations

RT offshore platforms

RT skimmers

RT underwater facilities

RT underwater operations

**OFFSHORE PLATFORMS**

INIS: 1992-04-09; ETDE: 1975-08-19

*Includes gravity or fixed, floating, and towed platforms.*

UF drill ships

UF drilling platforms

RT marine risers

RT offshore drilling

RT offshore operations

RT offshore sites

RT positioning

**OFFSHORE SITES**

RT coastal waters

RT estuaries

RT offshore drilling

RT offshore nuclear power plants

RT offshore platforms

RT onshore sites

RT reactor sites

RT seas

RT shores

RT site selection

**offshore surveys**

INIS: 2000-01-24; ETDE: 1976-11-17

USE marine surveys

**offsprings**

USE progeny

**OGO SATELLITES**

UF orbiting geophysical observatory

BT1 satellites

RT space flight

**OGRA**

\*BT1 magnetic mirrors

**ohi-3 reactor**

INIS: 1990-02-28; ETDE: 1990-03-15

USE oi-3 reactor

**ohi-4 reactor**

INIS: 1990-02-28; ETDE: 1990-03-15

USE oi-4 reactor

**OHIO**

UF scioto river

\*BT1 usa

**NTI** cleveland

RT battelle columbus laboratory

RT chattanooga formation

RT feed materials production center

RT mound laboratory

RT ohio river

RT portsmouth centrifuge enrichment plant

RT portsmouth gaseous diffusion plant



**OHIO RIVER**

- \*BT1 rivers
- RT illinois
- RT indiana
- RT kentucky
- RT ohio
- RT ohio valley region
- RT pennsylvania
- RT west virginia

**ohio state university reactor**

- 1999-06-25
- USE osur reactor

**OHIO VALLEY REGION**

- INIS: 2000-04-12; ETDE: 1978-02-14
- RT ohio river

**OHM LAW**

- RT electric conductivity

**ohmic plasma heating**

- USE joule heating

**ohmic plasma losses**

- USE energy losses

**ohmic resistance**

- USE electric conductivity

**OI-1 REACTOR**

- KEPCO, Oi, Fukui, Japan.
- UF kepc oshima oi-1 reactor
- UF oshima oi-1 reactor
- \*BT1 pwr type reactors

**OI-2 REACTOR**

- KEPCO, Oi, Fukui, Japan.
- UF kepc oshima oi-2 reactor
- UF oshima oi-2 reactor
- \*BT1 pwr type reactors

**OI-3 REACTOR**

- INIS: 1990-02-28; ETDE: 1990-03-15
- KEPCO, Oi, Fukui, Japan.
- UF oh-3 reactor
- \*BT1 pwr type reactors

**OI-4 REACTOR**

- INIS: 1990-02-28; ETDE: 1990-03-15
- KEPCO, Oi, Fukui, Japan.
- UF oh-4 reactor
- \*BT1 pwr type reactors

**OIL BURNERS**

- INIS: 1999-05-18; ETDE: 1979-05-09
- BT1 burners
- RT combustion
- RT oil furnaces

**OIL-EXPORTING COUNTRIES**

- INIS: 1999-03-15; ETDE: 1979-08-07
- For very broad, general use only. If specific countries are discussed, use the specific country descriptors.
- NT1 oapec
- NT1 opec
- RT developed countries
- RT developing countries

**OIL FIELDS**

- INIS: 1992-03-17; ETDE: 1976-03-11
- Surface boundary of an area from which petroleum is obtained; may correspond to an oil pool or may be circumscribed by political or legal limits.
- \*BT1 petroleum deposits
- RT associated gas
- RT field production equipment
- RT gas condensate fields
- RT oil wells
- RT reservoir fluids
- RT reservoir rock

- RT well injection equipment
- RT well recovery equipment
- RT well spacing

**OIL-FILLED CABLES**

- INIS: 1999-10-13; ETDE: 1976-03-11
- \*BT1 electric cables
- RT power transmission
- RT power transmission lines

**OIL FURNACES**

- INIS: 1992-05-13; ETDE: 1977-06-21
- BT1 furnaces
- RT oil burners
- RT space heating

**OIL-IMPORTING COUNTRIES**

- INIS: 2000-04-12; ETDE: 1977-04-14
- Countries, industrial or developing, that import some of their oil supplies. For broad, general use only; if specific countries are discussed, use the specific country descriptor.
- RT developing countries
- RT imports
- RT trade

**OIL PALMS**

- INIS: 1975-09-16; ETDE: 1975-10-28
- \*BT1 liliopsida
- \*BT1 trees
- RT palm oil

**OIL POLLUTION CONTAINMENT**

- INIS: 1992-04-07; ETDE: 1978-01-23
- \*BT1 pollution control
- RT oil retention booms
- RT oil spills
- RT water pollution control

**oil residues**

- INIS: 1992-04-02; ETDE: 1977-10-20
- USE petroleum residues

**OIL RETENTION BOOMS**

- INIS: 1992-07-17; ETDE: 1978-01-23
- \*BT1 pollution control equipment
- RT oil pollution containment

**OIL SAND DEPOSITS**

- 1997-06-19
- BT1 geologic deposits
- NT1 asphalt ridge deposit
- NT1 athabasca deposit
- NT1 circle cliffs deposit
- NT1 cold lake deposit
- NT1 edna deposit
- NT1 lloydminster deposit
- NT1 peace river deposit
- NT1 pr springs deposit
- NT1 santa rosa deposit
- NT1 sunnyside deposit
- NT1 tar sand triangle deposit
- NT1 uvalde deposit
- NT1 wabasca deposit
- RT oil sands
- RT reserves

**OIL SAND INDUSTRY**

- 1994-09-29
- BT1 industry
- RT mineral industry
- RT oil sands

**OIL SAND MINING**

- INIS: 1992-09-03; ETDE: 1980-10-28
- BT1 mining
- RT oil sands
- RT surface mining

**oil sand oils**

- 2000-04-12
- USE bitumens

- USE oil sands

**OIL SAND PROCESSING PLANTS**

- 1993-12-30
- BT1 industrial plants
- RT oil sands

**OIL SAND TAILINGS**

- 1992-05-04
- UF tar sand tailings
- \*BT1 tailings

**OIL SANDS**

- 1997-06-19
- UF oil sand oils
- UF tar sands
- \*BT1 bituminous materials
- \*BT1 fossil fuels
- BT1 sand
- RT asphalt ridge deposit
- RT athabasca deposit
- RT bitumens
- RT circle cliffs deposit
- RT cold lake deposit
- RT cold-water processes
- RT edna deposit
- RT fluid injection processes
- RT h-oil process
- RT hot-water processes
- RT oil sand deposits
- RT oil sand industry
- RT oil sand mining
- RT oil sand processing plants
- RT oil shales
- RT peace river deposit
- RT pr springs deposit
- RT rope process
- RT santa rosa deposit
- RT steam soak processes
- RT sunnyside deposit
- RT tar sand triangle deposit
- RT uvalde deposit
- RT wabasca deposit

**OIL SATURATION**

- INIS: 1992-07-10; ETDE: 1976-07-07
- Degree of filling of reservoir pore structure by reservoir oil.
- BT1 saturation
- RT gas saturation
- RT reservoir rock
- RT water saturation

**OIL SHALE DEPOSITS**

- 1997-06-19
- BT1 geologic deposits
- \*BT1 mineral resources
- NT1 us naval oil shale reserves
- RT chattanooga formation
- RT geophysical surveys
- RT green river formation
- RT oil shales
- RT piceance creek basin
- RT reserves
- RT rock springs sites
- RT sand wash basin
- RT uinta basin
- RT uinta formation
- RT washakie basin

**OIL SHALE FINES**

- INIS: 2000-04-12; ETDE: 1976-11-01
- RT oil shales

**OIL SHALE INDUSTRY**

- 1992-07-22
- BT1 industry
- RT mineral industry
- RT oil shales
- RT shale oil

**OIL SHALE MINING**

INIS: 1992-04-09; ETDE: 1976-11-17

UF shale mining  
BT1 mining  
RT mining engineering  
RT surface mining  
RT underground mining

**OIL SHALE PROCESSING PLANTS**

1997-06-17

BT1 industrial plants  
NT1 anvil points research facility  
NT1 glen davis facility  
RT gas generators  
RT oil shales

**oil shale waste water**

INIS: 2000-04-12; ETDE: 1976-03-25

USE oil shales  
USE waste water

**OIL SHALES**

1997-06-17

UF holzheimer process  
UF ljunstrom process  
UF oil shale waste water  
SF fushun process  
SF galoter process  
\*BT1 bituminous materials  
\*BT1 fossil fuels  
\*BT1 shales  
NT1 black shales  
RT anvil points research facility  
RT bitumens  
RT explosive stimulation  
RT fischer assay  
RT fluidized bed refuse gasification  
RT gas combustion process  
RT gas-flow processes  
RT gasbuggy event  
RT green river formation  
RT h-oil process  
RT hot-water processes  
RT hydrotreating assay  
RT hydrotreating process  
RT ichthammol  
RT in-situ processing  
RT in-situ retorting  
RT integrated in-situ process  
RT kerogen  
RT kivitier process  
RT lofreco process  
RT lurgi-ruhrgas process  
RT mahogany zone  
RT ntu process  
RT occidental flash pyrolysis process  
RT oil sands  
RT oil shale deposits  
RT oil shale fines  
RT oil shale industry  
RT oil shale processing plants  
RT oxy modified in-situ process  
RT parah process  
RT petrosix process  
RT retorting  
RT rio blanco oil shale project  
RT rise  
RT rope process  
RT shale gas  
RT shale oil  
RT shale oil fractions  
RT shell pellet heat exchanger retorting  
RT spent shales  
RT superior process  
RT t3 process  
RT tosc process  
RT uinta formation  
RT union oil process  
RT wasatch formation  
RT white river shale project

**oil skimmers**

INIS: 1992-07-21; ETDE: 2002-04-17

USE skimmers

**oil spill fingerprinting**

INIS: 2000-04-12; ETDE: 1978-08-07

USE oil spills  
USE pattern recognition

**OIL SPILLS**

1991-08-14

UF fingerprinting (oil spills)  
UF oil spill fingerprinting  
BT1 accidents  
RT chemical spills  
RT hazardous materials spills  
RT natural attenuation  
RT oil pollution containment  
RT petroleum  
RT rotating disk removal systems  
RT skimmers  
RT sorbent recovery systems  
RT weir oil recovery systems

**oil-water separators**

INIS: 2000-04-12; ETDE: 1981-05-18

SEE separation equipment

**OIL WELLS**

INIS: 1991-08-14; ETDE: 1975-09-11

BT1 wells  
RT abandoned wells  
RT artificial lifts  
RT blowout preventers  
RT blowouts  
RT carbon dioxide injection  
RT drill stem testing  
RT dry holes  
RT exploratory wells  
RT field production equipment  
RT gas condensate wells  
RT gas lifts  
RT interstitial water  
RT oil fields  
RT petroleum  
RT plugging  
RT plugging agents  
RT sand consolidation  
RT water influx  
RT well completion  
RT well injection equipment  
RT well recovery equipment  
RT well servicing  
RT well stimulation  
RT wellhead prices  
RT wellheads

**OIL YIELDS**

1993-07-21

BT1 yields  
RT petroleum  
RT productivity

**OILS**

\*BT1 other organic compounds  
NT1 coal tar oils  
NT1 essential oils  
NT1 fish oil  
NT1 insulating oils  
NT1 lipiodol  
NT1 lubricating oils  
NT1 pyrolytic oils  
NT1 road oils  
NT1 shale tar oils  
NT1 tall oil  
NT1 triolein  
NT1 vegetable oils  
NT2 castor oil  
NT2 corn oil  
NT2 cottonseed oil

NT2 linseed oil  
NT2 olive oil  
NT2 palm oil  
NT2 peanut oil  
NT2 sesame oil  
NT2 soybean oil  
NT2 sunflower oil

NT1 waste oils  
NT1 wood oils  
RT bromine number  
RT coolants  
RT distillates  
RT fuel oils  
RT greases  
RT hydrocarbons  
RT petroleum  
RT petroleum products  
RT terpenes  
RT triglycerides

**OINTMENTS**

RT drugs  
RT skin

**oiyai**

INIS: 1984-06-21; ETDE: 2002-04-17

USE jinr

**OKG-1 REACTOR**

UF oskarshamn-1 reactor

\*BT1 bwr type reactors

**OKG-2 REACTOR**

UF oskarshamn-2 reactor

\*BT1 bwr type reactors

**OKG-3 REACTOR**

UF oskarshamn-3 reactor

\*BT1 bwr type reactors

**OKG-4 REACTOR**

UF oskarshamn-4 reactor

\*BT1 power reactors

**OKINAWA**

INIS: 1992-06-04; ETDE: 1980-08-25

BT1 islands  
RT japan

**OKLAHOMA**

\*BT1 usa  
RT chattanooga formation

RT permian basin  
RT sequoyah u6 production plant

**OKLO PHENOMENON**

INIS: 1976-01-28; ETDE: 1976-03-12

UF natural reactor oklo  
BT1 natural nuclear reactors  
RT chain reactions  
RT criticality  
RT gabon  
RT spontaneous fission  
RT uranium deposits  
RT uranium ores

**oktemberian-1 reactor**

INIS: 1984-08-23; ETDE: 2002-04-17

USE armenian-1 reactor

**oktemberian-2 reactor**

INIS: 1984-08-23; ETDE: 1984-09-20

USE armenian-2 reactor

**OKTEMBERIAN-2 REACTOR**

2000-04-12

\*BT1 pwr type reactors

**OKUBO MASS FORMULA**

BT1 mass formulae  
RT particle multiplots

**OLADE**

2006-10-11

UF latin american energy organization

UF organizacion latinoamericana de energia

BT1 international organizations

**old faithful geyser**

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE geysers

**OLDBURY-A REACTOR***Oldbury on Severn, Gloucestershire, United Kingdom.*

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 thermal reactors

**OLDBURY-B REACTOR***Oldbury on Severn, Gloucestershire, United Kingdom.*

\*BT1 carbon dioxide cooled reactors

\*BT1 enriched uranium reactors

\*BT1 power reactors

\*BT1 thermal reactors

**olefins**

USE alkenes

**OLEIC ACID**

\*BT1 monocarboxylic acids

RT triolein

**olein**

USE triolein

**OLEORESINS**

INIS: 2000-04-12; ETDE: 1979-05-31

*Plant products containing chiefly essential oil and resin; obtained from plants such as pine trees.*

RT aromatics

RT biomass

**OLFACTORY BULBS**

\*BT1 brain

RT sense organs

**oligocene epoch**

INIS: 2000-04-12; ETDE: 1977-10-20

USE tertiary period

**OLIGONUCLEOTIDES**

1994-04-12

*Chemically synthesized polynucleotides, generally shorter than 100 nucleotides.*

(Until April 1994 this concept was indexed to NUCLEOTIDES.)

\*BT1 dna

RT dna-cloning

RT dna hybridization

RT nucleotides

RT recombinant dna

**OLIGOPHENYLENES**

\*BT1 aromatics

\*BT1 hydrocarbons

**OLIGOSACCHARIDES**

\*BT1 saccharides

NT1 disaccharides

NT2 cellobiose

NT2 lactose

NT2 maltose

NT2 saccharose

NT1 raffinose

**OLIVE OIL**

UF florence oil

UF luccu oil

\*BT1 triglycerides

\*BT1 vegetable oils

RT olives

**OLIVE TREES**

INIS: 1975-12-17; ETDE: 1976-01-26

\*BT1 magnoliopsida

\*BT1 trees

**OLIVES**

\*BT1 fruits

RT dacus oleae

RT olive oil

**OLIVINE**

(Prior to August 1980 OLIVINES was a valid ETDE descriptor.)

\*BT1 silicate minerals

RT anorthosites

RT basalt

RT dielectric track detectors

RT iron silicates

RT kimberlites

RT magnesium silicates

RT peridotites

**olkiluoto (halmholmen)-1 reactor**

INIS: 1993-11-09; ETDE: 2002-04-17

USE olkiluoto-1 reactor

**olkiluoto (halmholmen)-2 reactor**

INIS: 1993-11-09; ETDE: 2002-04-17

USE olkiluoto-2 reactor

**olkiluoto (halmholmen)-3 reactor**

2005-09-08

USE olkiluoto-3 reactor

**OLKILUOTO-1 REACTOR**

INIS: 1997-06-19; ETDE: 1997-09-08

TVO, Olkiluoto (Halmholmen), Finland.

(From August 1976 till June 1997

(INIS)/September 1997 (ETDE) the descriptor

TVO-1 REACTOR was used for this reactor.

OLKILUOTO REACTOR was also a valid

ETDE descriptor till January 1995.)

UF olkiluoto (halmholmen)-1 reactor

UF olkiluoto reactor

UF teollisuuden voima oy-1 reactor

UF tvo-1 reactor

\*BT1 bwr type reactors

**OLKILUOTO-2 REACTOR**

INIS: 1997-06-19; ETDE: 1997-09-08

TVO, Olkiluoto (Halmholmen), Finland.

(From August 1976 till June 1997

(INIS)/September 1997 (ETDE) the descriptor

TVO-2 REACTOR was used for this reactor.

OLKILUOTO REACTOR was also a valid

ETDE descriptor till January 1995.)

UF olkiluoto (halmholmen)-2 reactor

UF teollisuuden voima oy-2 reactor

UF tvo-2 reactor

\*BT1 bwr type reactors

**OLKILUOTO-3 REACTOR**

2005-09-08

TVO, Olkiluoto (Halmholmen), Finland. The

Framatome APN/Siemens AG European

Pressurized Water Reactor (EPR).

UF olkiluoto (halmholmen)-3 reactor

UF teollisuuden voima oy-3 reactor

UF tvo-3 reactor

\*BT1 pwr type reactors

**olkiluoto reactor**

2000-04-12

(Prior to January 1995, this was a valid ETDE

descriptor. TVO-1 REACTOR was a valid

ETDE descriptor from August 1976 till

September 1997.)

USE olkiluoto-1 reactor

**OLYMPIC DAM MINE**

INIS: 1990-04-19; ETDE: 1990-05-16

\*BT1 uranium mines

RT roxby downs deposit

RT south australia

**omaha veterans triga-mk-1**

USE triga-veterans reactor

**OMAN**

INIS: 1981-09-17; ETDE: 1976-10-13

BT1 arab countries

BT1 asia

BT1 developing countries

BT1 middle east

**OMEGA-1420 MESONS**

1995-07-17

\*BT1 vector mesons

**OMEGA-1600 MESONS**

1995-07-17

\*BT1 vector mesons

**omega-1675 resonances**

INIS: 1987-12-21; ETDE: 1977-03-04

(Prior to December 1987 this was a valid descriptor.)

USE omega3-1670 mesons

**omega-1778 resonances**

INIS: 1988-03-08; ETDE: 1977-11-10

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**OMEGA-2250 BARYONS**

1995-07-17

\*BT1 omega baryons

**OMEGA-782 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by OMEGA-784RESONANCES; from then until July 1995 it was indexed by OMEGA-783 MESONS.)

UF omega-783 mesons

UF omega-784 resonances

\*BT1 vector mesons

**omega-783 mesons**

INIS: 1995-08-07; ETDE: 1988-01-25

(From December 1987 until July 1995 this was a valid term.)

USE omega-782 mesons

**omega-784 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE omega-782 mesons

**OMEGA BARYONS**

INIS: 1995-07-17; ETDE: 1988-02-26

\*BT1 hyperons

NT1 omega-2250 baryons

NT1 omega particles

NT2 antiomega particles

NT2 omega minus particles

**OMEGA C NEUTRAL BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-26

\*BT1 charmed baryons

**OMEGA FACILITY**

INIS: 1984-05-28; ETDE: 1979-05-25

*Large Nd laser facility at University of Rochester to be used for laser fusion experiments.*

RT gdl facility

RT laser fusion reactors

RT neodymium lasers

**omega minus**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE omega particles

**OMEGA MINUS PARTICLES**

1995-07-17

(Until July 1995 this concept was indexed to OMEGA PARTICLES.)

\*BT1 omega particles

**omega particle beams**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE hyperon beams

**OMEGA PARTICLES**

1995-07-17

UF omega minus

\*BT1 omega baryons

NT1 antiomega particles

NT1 omega minus particles

**omega west reactor**

USE owr reactor

**OMEGA3-1670 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by OMEGA-1675 RESONANCES.)

UF omega-1675 resonances

\*BT1 tensor mesons

**omentum**

USE mesentery

**OMNES-MUSKHELISHVILI METHOD**

BT1 calculation methods

RT partial waves

**omnitron**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE synchrotrons

**OMR TYPE REACTORS**

UF organic cooled and moderated reactor

\*BT1 organic cooled reactors

\*BT1 organic moderated reactors

NT1 arbus reactor

NT1 omre reactor

NT1 pnpf reactor

RT power reactors

**OMRE REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1963.

UF organic moderated reactor experiment

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 mixed spectrum reactors

\*BT1 omr type reactors

**ON-HIGHWAY USE**

INIS: 2000-04-12; ETDE: 1982-06-07

RT fuel consumption

RT taxes

**on-line computers**

USE computers

USE on-line systems

**ON-LINE CONTROL SYSTEMS**

BT1 control systems

BT1 on-line systems

NT1 computerized control systems

NT2 adaptive systems

RT camac system

RT computer-aided manufacturing

RT fastbus system

RT nuclear instrument modules

RT process computers

RT reactor control systems

RT real time systems

RT remote multiplexing systems

**ON-LINE MEASUREMENT SYSTEMS**

BT1 on-line systems

RT digitizers

RT fastbus system

RT measuring instruments

RT reactor monitoring systems

**ON-LINE SYSTEMS**

UF on-line computers

NT1 on-line control systems

NT2 computerized control systems

NT3 adaptive systems

NT1 on-line measurement systems

RT computer networks

RT mwd systems

RT real time systems

**ON-SITE INSPECTION**

INIS: 1999-01-27; ETDE: 1988-05-23

BT1 inspection

RT in-country detection

RT verification

**ON-SITE POWER GENERATION**

INIS: 1986-04-03; ETDE: 1980-10-07

*Production of power at location of use instead of purchase of power from a utility.*

BT1 power generation

RT dispersed storage and generation

RT electric power

RT power plants

RT reactor sites

**ONAGAWA-1 REACTOR**

Tohoku Electric Power Co., Onagawa, Miyagi, Japan.

UF tohoku-1 reactor

\*BT1 bwr type reactors

**ONAGAWA-2 REACTOR**

INIS: 1989-11-24; ETDE: 1989-12-08

Tohoku Electric Power Co., Onagawa, Miyagi, Japan.

\*BT1 bwr type reactors

**ONAGAWA-3 REACTOR**

INIS: 2000-04-25; ETDE: 2000-05-03

Tohoku Electric Power Co., Onagawa, Miyagi, Japan.

\*BT1 bwr type reactors

**ONCE-THROUGH COOLING SYSTEMS**

1993-03-23

\*BT1 cooling systems

RT cooling

**ONCOGENES**

INIS: 1987-04-28; ETDE: 1985-11-19

*Genes whose expression may lead to cancer.**The genes maybe normal components of the genome or be derived from oncogenic viruses.*

BT1 genes

RT carcinogenesis

RT growth factors

RT gtp-ases

RT oncogenic transformations

RT oncogenic viruses

**ONCOGENIC TRANSFORMATIONS**

INIS: 1999-04-21; ETDE: 1979-07-18

*The chemical alterations induced in a cell by exposure to carcinogens and leading**ultimately to the development of a neoplastic condition.*

UF transformations (oncogenic)

BT1 cell transformations

RT carcinogenesis

RT carcinogens

RT oncogenes

**ONCOGENIC VIRUSES**

INIS: 1976-03-17; ETDE: 1975-08-19

UF epstein-barr virus

UF rous sarcoma virus

UF sv40 virus

UF tumor viruses

\*BT1 viruses

NT1 adenovirus

NT1 leukemia viruses

NT1 polyoma virus

RT carcinogenesis

RT leukemia

RT oncogenes

**ONCOVIN**

INIS: 1976-05-07; ETDE: 1976-08-04

UF vincristine sulfate

\*BT1 alkaloids

\*BT1 antimitotic drugs

**ONDULATOR RADIATION**

\*BT1 bremsstrahlung

**one-boson-exchange model**

USE obe model

**ONE-DIMENSIONAL CALCULATIONS**

UF 1-dimensional calculations

UF calculations (1-dimensional)

RT adjoint difference method

RT mathematics

**ONE-GROUP THEORY**

\*BT1 neutron transport theory

**ONE-NUCLEON TRANSFER REACTIONS**

\*BT1 transfer reactions

**ONIKOBE GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1975-11-28

BT1 geothermal fields

RT japan

**ONIONS**

1999-08-10

\*BT1 liliopsida

\*BT1 vegetables

NT1 allium cepa

RT bulbs

RT hylemya antiqua

RT sprout inhibition

**onsager principle**

USE onsager relations

**ONSAGER RELATIONS**

UF onsager principle

UF onsager symmetry relations

RT irreversible processes

RT pressure gradients

RT temperature gradients

RT thermodynamics

**onsager symmetry relations**

USE onsager relations

**ONSHORE SITES**

INIS: 1992-10-05; ETDE: 1979-12-10

*To be used only in conjunction with offshore sites if the paper discusses both.*

RT offshore sites

**ONSLow BAY**

INIS: 2000-04-12; ETDE: 1977-06-02

- \*BT1 atlantic ocean
- \*BT1 bays
- RT north carolina
- RT south atlantic bight

**ONTARIO**

- \*BT1 canada
- NT1 chalk river
- NT1 deep river
- NT1 elliot lake
- RT ottawa river
- RT st lawrence river

**ontario phwr pickering-1 reactor**

2000-04-12  
USE pickering-1 reactor

**ontario phwr pickering-2 reactor**

2000-04-12  
USE pickering-2 reactor

**ontario phwr pickering-3 reactor**

2000-04-12  
USE pickering-3 reactor

**ontario phwr pickering-4 reactor**

2000-04-12  
USE pickering-4 reactor

**ontario phwr pickering-5 reactor**

INIS: 1977-11-21; ETDE: 2002-04-17  
USE pickering-5 reactor

**ontario phwr pickering-6 reactor**

INIS: 1977-11-21; ETDE: 2002-04-17  
USE pickering-6 reactor

**ontario phwr pickering-7 reactor**

INIS: 1977-11-21; ETDE: 2002-04-17  
USE pickering-7 reactor

**ontario phwr pickering-8 reactor**

INIS: 1977-11-21; ETDE: 2002-04-17  
USE pickering-8 reactor

**ONTOGENESIS**

- 1996-04-30
- UF embryonic development
  - RT animal growth
  - RT apoptosis
  - RT cell differentiation
  - RT embryos
  - RT fetuses
  - RT genotype
  - RT growth factors
  - RT metamorphosis
  - RT morphogenesis
  - RT phenotype
  - RT zygotes

**ONUMA GEOTHERMAL FIELD**

- 2000-04-12
- BT1 geothermal fields
  - RT hachimantai
  - RT japan

**OOCYTES**

- BT1 germ cells
- RT ova

**OOGENESIS**

- BT1 gametogenesis
- RT oogonia
- RT ova
- RT ovaries
- RT reproduction

**OOGONIA**

INIS: 1975-11-07; ETDE: 1975-12-16  
BT1 germ cells

RT oogenesis

**OPACITY**

- UF optical density
- UF transparency
- SF absorptivity (optical)
- \*BT1 optical properties
- RT attenuation
- RT light transmission
- RT schlieren method
- RT transmission
- RT visibility
- RT visible radiation

**OPAL REACTOR**

- 2005-07-22  
Open Pool Australian Light water reactor,  
ANSTO, Lucas Heights site, Sydney, Australia.
- UF australian replacement research reactor
  - \*BT1 enriched uranium reactors
  - \*BT1 experimental reactors
  - \*BT1 isotope production reactors
  - \*BT1 pool type reactors
  - \*BT1 thermal reactors

**OPALS**

- INIS: 1999-03-03; ETDE: 1980-03-04  
An amorphous form of silica containing a  
varying portion of water occurring in nearly all  
colors.
- \*BT1 silica

**OPE MODEL**

- UF pion-exchange model
- \*BT1 obe model
- NT1 electric born model
- RT ope potential

**OPE POTENTIAL**

- BT1 potentials
- NT1 gammel-thaler potential
- RT nucleon-nucleon potential
- RT nucleons
- RT ope model

**OPEC**

- INIS: 1997-01-06; ETDE: 1975-08-19  
Organization of Oil Exporting Countries.
- BT1 international organizations
  - BT1 oil-exporting countries
  - RT algeria
  - RT cartels
  - RT ecuador
  - RT gabon
  - RT indonesia
  - RT iran
  - RT iraq
  - RT kuwait
  - RT libyan arab jamahiriya
  - RT middle east
  - RT nigeria
  - RT oapec
  - RT petroleum
  - RT qatar
  - RT saudi arabia
  - RT united arab emirates
  - RT venezuela

**open-circuit voltage**

2006-01-19  
USE electric potential

**OPEN CONFIGURATIONS**

- UF magnetic traps (open)
- BT1 magnetic field configurations
- NT1 baseball seam configurations
- NT1 cusped geometries
- NT1 magnetic mirror configurations
- NT2 tlm configurations
- NT1 minimum-b configurations
- RT open plasma devices

**OPEN-CYCLE COOLING SYSTEMS**

- 1977-09-06
- UF wet-type cooling towers
  - \*BT1 cooling systems
  - RT coolant loops
  - RT cooling towers
  - RT open-cycle systems
  - RT reactor cooling systems

**OPEN-CYCLE MHD GENERATORS**

- \*BT1 mhd generators
- RT closed-cycle mhd generators

**OPEN-CYCLE SYSTEMS**

INIS: 2000-04-12; ETDE: 1975-12-16  
RT lift cycles  
RT open-cycle cooling systems

**open-flow collectors**

INIS: 2000-04-12; ETDE: 1978-09-11  
USE trickle-type collectors

**OPEN-LOOP CONTROL**

INIS: 1976-09-06; ETDE: 1976-11-01  
Without feedback.  
BT1 control

**open pit mining**

INIS: 1975-11-07; ETDE: 2002-02-27  
USE surface mining

**OPEN PLASMA DEVICES**

- BT1 thermonuclear devices
- NT1 baseball devices
- NT1 linear pinch devices
- NT2 linear hard core pinch devices
- NT2 linear screw pinch devices
- NT2 linear theta pinch devices
- NT3 isar devices
- NT3 scylla devices
- NT2 linear z pinch devices
- NT1 magnetic mirrors
- NT2 2x devices
- NT2 alice
- NT2 beta ii devices
- NT2 bumpy tori
- NT3 elmo bumpy torus
- NT2 burnout devices
- NT2 circe devices
- NT2 deca devices
- NT2 elmo devices
- NT3 elmo bumpy torus
- NT2 gol-3 device
- NT2 imp device
- NT2 mftf devices
- NT2 ogra
- NT2 phoenix devices
- NT2 pleiade device
- NT2 reversed-field mirrors
- NT2 tandem mirrors
- NT3 gamma 10 devices
- NT3 phaedrus mirror devices
- NT3 tara devices
- NT3 tmx devices
- NT1 plasma focus devices
- NT2 pf-1000 device
- NT1 q devices
- NT2 helios devices
- NT2 qp devices
- RT open configurations

**OPENINGS**

- NT1 apertures
- NT1 doors
- NT2 storm doors
- NT1 orifices
- NT1 stomata
- NT1 windows
- NT2 storm windows
- RT boreholes
- RT caves

RT cavities  
 RT craters  
 RT ducts  
 RT mine shafts  
 RT shutters  
 RT vents

**OPERATING COST**

INIS: 1982-12-03; ETDE: 1979-02-23

BT1 cost  
 RT capitalized cost  
 RT economic analysis

**OPERATING LICENSES**

INIS: 1976-12-08; ETDE: 1978-03-08

BT1 licenses  
 RT licensing procedures  
 RT licensing regulations

**operating systems (computer)**

INIS: 1988-11-16; ETDE: 2002-04-17

USE executive codes

**OPERATION**

NT1 reactor operation  
 RT maintenance  
 RT motor vehicle operators  
 RT standby mode  
 RT start-up

**operation (fission reactor)**

INIS: 1982-11-30; ETDE: 2002-04-17

USE reactor operation

**operation (reactor)**

2000-04-12

USE reactor operation

**OPERATIONAL AMPLIFIERS**

\*BT1 amplifiers

**operations offices**

INIS: 2000-04-12; ETDE: 1983-03-24

USE us doe field offices

**operations research**

INIS: 1986-07-09; ETDE: 1982-09-10

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE decision making  
 SEE input-output analysis  
 SEE management  
 SEE mathematical models  
 SEE optimization

**OPERATOR PRODUCT EXPANSION**

INIS: 1988-11-16; ETDE: 1988-12-05

BT1 series expansion  
 RT gauge invariance  
 RT quantum operators

**operators (mathematical)**

USE mathematical operators

**operators (nuclear facilities)**

INIS: 1976-12-08; ETDE: 2002-04-17

USE nuclear operators

**operators (quantum field theory)**

INIS: 1993-11-09; ETDE: 2002-04-17

USE quantum operators

**operators (quantum mechanical)**

USE quantum operators

**OPHTHALMOLOGY**

BT1 medicine  
 RT eyes  
 RT sense organs diseases

**opiates**

INIS: 2000-04-12; ETDE: 1981-04-20

USE narcotics

**OPIUM**

INIS: 2000-04-12; ETDE: 1979-03-29

\*BT1 analgesics  
 \*BT1 narcotics  
 NT1 morphine  
 NT2 thebaine  
 RT papaver somniferum

**opix process**

INIS: 2000-04-12; ETDE: 1980-03-29

Separation of trivalent actinides and rare earths from other fission products in HLW by oxalate precipitation followed by ion exchange.

(Prior to April 1994, this was a valid ETDE descriptor.)

USE radioactive waste processing

**opossum**

USE marsupials

**OPPENHEIMER-PHILLIPS****PROCESS**

RT direct reactions  
 RT nuclear reactions  
 RT stripping

**OPTICAL ACTIVITY**

INIS: 1977-06-13; ETDE: 1976-02-19

The ability to rotate the plane of vibration of polarized light.

UF activity (optical)

\*BT1 optical properties  
 RT crystal structure  
 RT molecular structure  
 RT polarization  
 RT stereochemistry

**optical antipodes**

INIS: 1994-06-27; ETDE: 1976-02-23

USE enantiomorphs

**optical computers**

INIS: 2000-04-12; ETDE: 1986-02-21

(Prior to March 1997 this was a valid ETDE descriptor.)

USE computers

**optical density**

USE opacity

**OPTICAL DEPTH CURVE**

INIS: 1975-08-22; ETDE: 1976-08-24

\*BT1 diagrams  
 NT1 spectroscopic curve of growth  
 RT absorption spectra  
 RT cosmic gases  
 RT line broadening  
 RT optical properties  
 RT oscillator strengths

**OPTICAL DISPERSION**

RT diffraction  
 RT optics  
 RT refraction  
 RT refractive index

**OPTICAL EQUIPMENT**

1975-11-07

UF optical scanners  
 UF scanners (optical)  
 BT1 equipment  
 RT antireflection coatings  
 RT fiber optics  
 RT optical fibers  
 RT parametric oscillators

**OPTICAL FIBERS**

INIS: 1982-09-21; ETDE: 1982-03-10

Long, thin threads of transparent materials used to transmit light.

UF light guides

BT1 fibers  
 RT fiber optics  
 RT optical equipment  
 RT optical systems

**OPTICAL FILTERS**

BT1 filters  
 RT optical systems

**optical isomers**

1994-06-27

USE enantiomorphs

**OPTICAL MICROSCOPES**

BT1 microscopes

**OPTICAL MICROSCOPY**

BT1 microscopy  
 NT1 scanning light microscopy

**OPTICAL MODELS**

1996-01-24

UF feshbach-porter-weisskopf model  
 UF kisslinger model  
 UF models (optical)  
 BT1 mathematical models  
 RT atomic models  
 RT cloudy crystal ball model  
 RT fsc approximation  
 RT nuclear models  
 RT nuclear potential  
 RT particle models  
 RT perey-buck model  
 RT woods-saxon potential

**OPTICAL MODES**

UF modes (optical)  
 BT1 oscillation modes

**OPTICAL PROPERTIES**

BT1 physical properties  
 NT1 brightness  
 NT1 color  
 NT1 emissivity  
 NT1 luminosity  
 NT1 opacity  
 NT1 optical activity  
 NT1 reflectivity  
 NT1 refractive index  
 NT1 spectral reflectance  
 RT absorptivity  
 RT birefringence  
 RT dichroism  
 RT diffraction  
 RT electro-optical effects  
 RT fiber optics  
 RT geometrical aberrations  
 RT light scattering  
 RT light transmission  
 RT magneto-optical effects  
 RT mirrors  
 RT optical depth curve  
 RT optical systems  
 RT optics  
 RT reflective coatings  
 RT refraction  
 RT spectroscopic curve of growth  
 RT visibility

**OPTICAL PUMPING**

2000-03-28

UF pumping (laser)  
 BT1 pumping  
 RT double resonance methods  
 RT electrical pumping  
 RT excitation  
 RT lasers  
 RT nuclear pumping  
 RT stimulated emission

**OPTICAL PYROMETERS**

\*BT1 pyrometers

RT temperature measurement

## OPTICAL RADAR

INIS: 1992-04-13; ETDE: 1979-01-30

UF lidar

\*BT1 radar

RT laser radiation

RT lasers

RT optical systems

RT remote sensing

## OPTICAL REFLECTION

1994-09-08

BT1 reflection

RT optics

## optical scanners

INIS: 2000-04-12; ETDE: 1977-04-12

Single-unit combinations of a light source and phototube for scanning moving strips of paper or other materials in photoelectric side-register control systems.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE image scanners

USE optical equipment

## OPTICAL SPECTROMETERS

\*BT1 spectrometers

## OPTICAL SYSTEMS

NT1 periscopes

RT antireflection coatings

RT beam optics

RT diffraction gratings

RT fiber optics

RT lenses

RT lighting systems

RT mirrors

RT optical fibers

RT optical filters

RT optical properties

RT optical radar

RT optics

RT remote viewing equipment

RT shutters

RT solar reflectors

RT telescopes

## OPTICAL THEOREM

RT small angle scattering

## OPTICALLY THICK PLASMA

BT1 plasma

## OPTICALLY THIN PLASMA

BT1 plasma

## OPTICS

INIS: 1978-01-13; ETDE: 1976-04-19

NT1 fiber optics

NT1 nonlinear optics

RT beam optics

RT illuminance

RT incidence angle

RT optical dispersion

RT optical properties

RT optical reflection

RT optical systems

RT quantum electronics

## OPTIMAL CONTROL

INIS: 1976-09-06; ETDE: 1976-11-01

BT1 control

RT optimization

## OPTIMIZATION

(From September 1982 till March 1997 OPERATIONS RESEARCH was a valid ETDE descriptor.)

SF operations research

NT1 minimization

RT alara

RT augmentation

RT control

RT control systems

RT control theory

RT dynamic programming

RT econometrics

RT linear programming

RT mitigation

RT modifications

RT nonlinear programming

RT optimal control

RT parametric analysis

RT planning

RT variational methods

## optoacoustic cells

INIS: 1978-02-23; ETDE: 1978-05-01

USE photoacoustic spectrometers

## OR-CEF REACTOR

ORNL, Oak Ridge, Tennessee, USA.

UF cef-or reactor

UF critical experiments facility oak ridge

UF oak ridge critical experiments facility

\*BT1 zero power reactors

## ORAL ADMINISTRATION

UF gastric administration

BT1 intake

RT ingestion

RT intestinal absorption

RT radionuclide administration

## ORAL CAVITY

UF lips

UF mouth

BT1 digestive system

NT1 teeth

NT1 tongue

RT face

RT head

RT ingestion

RT pharynx

RT salivary glands

## orange event

INIS: 1994-10-14; ETDE: 1976-03-12

A test made during PROJECT HARDTACK.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

## orange-type spectrometers

USE flat magnetic spectrometers

## ORANGES

\*BT1 fruits

RT citrus

## ORAU

UF oak ridge associated universities

\*BT1 us organizations

## ORBIT STABILITY

BT1 stability

RT beam dynamics

## ORBITAL ANGULAR MOMENTUM

BT1 angular momentum

RT fractional-parentage coefficients

RT j-j coupling

RT l-s coupling

RT spin

## ORBITAL MOMENTUM

### OPERATORS

\*BT1 angular momentum operators

## ORBITAL SOLAR POWER PLANTS

1993-02-18

UF satellite power system

UF satellite solar power stations

\*BT1 solar power plants

RT orbital solar reflectors

RT satellites

## ORBITAL SOLAR REFLECTORS

INIS: 2000-04-12; ETDE: 1980-02-11

For providing concentrated solar radiation to ground-based solar power plants.

\*BT1 solar reflectors

RT orbital solar power plants

RT solar power plants

## orbiting geophysical observatory

INIS: 1993-11-09; ETDE: 2002-04-17

USE ogo satellites

## ORBITING SOLAR OBSERVATORIES

BT1 satellites

RT space flight

RT sun

## ORBITS

For electron orbits in atoms use

ELECTRONIC STRUCTURE.

RT beam dynamics

RT limit cycle

RT precession

RT trajectories

## orc flash pyrolysis process

INIS: 2000-04-12; ETDE: 1977-06-02

USE accidental flash pyrolysis process

## ORDER-DISORDER MODEL

INIS: 1977-09-15; ETDE: 1977-11-10

\*BT1 nuclear models

RT fission

## ORDER-DISORDER TRANSFORMATIONS

BT1 phase transformations

RT crystal-phase transformations

RT ising model

RT superlattices

## ORDER PARAMETERS

BT1 dimensionless numbers

RT crystal structure

RT wilson loop

## ORDERS

INIS: 2000-04-12; ETDE: 1997-03-31

(From December 1979 till March 1997

CONSENT ORDERS was a valid ETDE descriptor.)

UF consent orders

BT1 administrative procedures

## ordnance

INIS: 2000-04-12; ETDE: 1975-08-19

(Prior to March 1997 this was a valid ETDE descriptor.)

USE military equipment

## ORDOVICIAN PERIOD

INIS: 1992-04-14; ETDE: 1977-10-19

\*BT1 paleozoic era

## ORE COMPOSITION

UF abundance (mineral)

RT abundance

RT availability

RT mining

RT natural occurrence

RT ores

## ORE CONCENTRATES

UF concentrates (ore)

UF enriched materials (ores)

NT1 uranium concentrates

RT ore enrichment

**ORE ENRICHMENT**

1996-07-08

*UF enrichment (ores)*

BT1 enrichment

\*BT1 ore processing

BT1 separation processes

*RT flotation**RT leaching**RT ore concentrates***ORE PROCESSING**

2000-02-01

*UF processing (ores)*

BT1 processing

NT1 ore enrichment

NT1 retorting

NT2 in-situ retorting

*RT crushing**RT flotation**RT in-situ processing**RT leaching**RT mill tailings**RT ores**RT process control**RT radiometric sorting**RT refining**RT slurries**RT tailings**RT thiobacillus oxidans**RT uranium concentrates***ore reserves**

*Index by coordination of RESERVES with ORES or with the descriptor for a specific type of ore.*

USE reserves

**OREGON**

1997-06-17

\*BT1 usa

NT1 mt hood

*RT cascade mountains**RT columbia river basin**RT klamath falls**RT snake river plain**RT us west coast***oregon state triga reactor**

USE ostr reactor

**ORELA***Oak Ridge Electron Linear Accelerator.*

\*BT1 linear accelerators

**ORES**

1996-07-23

(Prior to March 1997 RHENIUM ORES and SELENIUM ORES were valid ETDE descriptors.)

*UF rhenium ores**UF selenium ores*

NT1 aluminium ores

NT2 bauxite

NT1 bismuth ores

NT1 chromium ores

NT1 cobalt ores

NT1 copper ores

NT1 gold ores

NT1 iron ores

NT2 hematite

NT2 limonite

NT2 magnetite

NT2 siderite

NT1 lead ores

NT1 manganese ores

NT1 molybdenum ores

NT1 nickel ores

NT1 niobium ores

NT1 polymetallic ores

NT1 silver ores

NT1 sulfur ores

NT1 tantalum ores

NT1 tellurium ores

NT1 thorium ores

NT1 tin ores

NT1 titanium ores

NT1 tungsten ores

NT1 uranium ores

NT2 caldasite

NT2 uranium concentrates

NT1 vanadium ores

NT1 yttrium ores

NT1 zinc ores

NT1 zirconium ores

*RT environmental materials**RT geologic deposits**RT minerals**RT ore composition**RT ore processing***organ cultures**

USE tissue cultures

**organelles***INIS: 2000-04-12; ETDE: 1985-10-10*

USE cell constituents

**ORGANIC ACIDS**

1996-06-26

*Not for the concepts covered by NUCLEIC**ACIDS and NUCLEOTIDES.**UF acids (organic)**UF cacodylic acid**UF sulfenic acids*

BT1 organic compounds

NT1 arsonic acids

NT2 arsenazo

NT1 boronic acids

NT1 carboxylic acids

NT2 amino acids

NT3 alanines

NT4 alanine-alpha

NT5 alanine-l

NT4 alanine-beta

NT3 aminobutyric acid

NT3 aminolevulinic acid

NT3 anthranilic acid

NT3 arginine

NT3 asparagine

NT3 aspartic acid

NT3 betaine

NT3 carnitine

NT3 cdta

NT3 citrulline

NT3 creatine

NT3 cysteine

NT3 cystine

NT3 dcta

NT3 diiodotyrosine

NT3 dopa

NT3 dtpa

NT3 eddha

NT3 edta

NT3 ethionine

NT3 folic acid

NT3 glutamic acid

NT4 pyridoxylidene-glutamate

NT3 glutamine

NT3 glycine

NT3 glycylglycine

NT3 hedta

NT3 heida

NT3 hippuric acid

NT3 histidine

NT3 homocysteine

NT3 hydroxyproline

NT3 hydroxytryptophan

NT3 kynurenine

NT3 leucine

NT3 lysine

NT3 methionine

NT3 methyl red

NT3 methyl tyrosine

NT3 mimosine

NT3 mpg

NT3 nta

NT3 ornithine

NT3 paba

NT3 pantothenic acid

NT3 penicillamine

NT3 phenylalanine

NT3 phosphocreatine

NT3 proline

NT3 sarcosine

NT3 serine

NT3 tetaha

NT3 threonine

NT3 thyronine

NT3 thyroxine

NT3 tryptophan

NT3 tyrosine

NT3 valine

NT2 bile acids

NT3 cholic acid

NT2 carminic acid

NT2 dicarboxylic acids

NT3 adipic acid

NT3 fumaric acid

NT3 glutaric acid

NT3 itaconic acid

NT3 maleic acid

NT3 malonic acid

NT3 oxalic acid

NT3 phthalic acid

NT3 sebacic acid

NT3 succinic acid

NT3 terephthalic acid

NT2 egta

NT2 glyoxylic acid

NT2 heterocyclic acids

NT3 bilirubin

NT3 biotin

NT3 histidine

NT3 hydroxyproline

NT3 lysergic acid

NT3 nicotinic acid

NT3 orotic acid

NT3 picolinic acid

NT3 porphyrins

NT4 chlorins

NT4 chlorophyll

NT4 hematoporphyrins

NT4 heme

NT4 hemoglobin

NT5 methemoglobin

NT4 hemosiderin

NT4 myoglobin

NT4 protoporphyrins

NT3 proline

NT3 rhodamines

NT3 thioctic acid

NT3 tryptophan

NT3 urocanic acid

NT2 hydroxy acids

NT3 acetylsalicylic acid

NT3 benzilic acid

NT3 carnitine

NT3 citric acid

NT3 diiodotyrosine

NT3 dopa

NT3 eddha

NT3 eosin

NT3 fluorescein

NT4 erythrosine

NT3 galacturonic acid

NT3 gallic acid

NT3 gibberellic acid

NT3 gluconic acid

NT3 glucuronic acid



NT3 glyceric acid  
 NT3 glycolic acid  
 NT3 hedta  
 NT3 heida  
 NT3 hydroxyproline  
 NT3 hydroxytryptophan  
 NT3 lactic acid  
 NT3 malic acid  
 NT3 mandelic acid  
 NT3 methyl tyrosine  
 NT3 mevalonic acid  
 NT3 pantothenic acid  
 NT3 rose bengal  
 NT3 salicylic acid  
 NT3 serine  
 NT3 shikimic acid  
 NT3 tartaric acid  
 NT3 threonine  
 NT3 thyronine  
 NT3 tyrosine  
 NT2 keto acids  
 NT3 acetoacetic acid  
 NT3 kynurenine  
 NT3 levulinic acid  
 NT3 pyruvic acid  
 NT2 mellitic acid  
 NT2 monocarboxylic acids  
 NT3 abscisic acid  
 NT3 acetic acid  
 NT3 acrylic acid  
 NT3 arachidonic acid  
 NT3 benzoic acid  
 NT3 butyric acid  
 NT3 chlorambucil  
 NT3 cinnamic acid  
 NT3 crotonic acid  
 NT3 decanoic acid  
 NT3 dodecanoic acid  
 NT3 eicosanoic acid  
 NT3 formic acid  
 NT3 glycolic acid  
 NT3 heptanoic acid  
 NT3 hexadecanoic acid  
 NT3 hexanoic acid  
 NT3 isobutyric acid  
 NT3 isovaleric acid  
 NT3 linoleic acid  
 NT3 linolenic acid  
 NT3 methacrylic acid  
 NT3 nicotinic acid  
 NT3 nonanoic acid  
 NT3 octadecanoic acid  
 NT3 octanoic acid  
 NT3 oleic acid  
 NT3 pethidine  
 NT3 pivalic acid  
 NT3 propionic acid  
 NT3 sorbic acid  
 NT3 tetradecanoic acid  
 NT3 uronic acids  
 NT3 valeric acid  
 NT2 tannic acid  
 NT1 coal tar acids  
 NT1 fulvic acids  
 NT1 humic acids  
 NT1 mdpa  
 NT1 phosphinic acids  
 NT1 phosphonic acids  
 NT1 phytic acid  
 NT1 shale tar acids  
 NT1 sulfonic acids  
 NT2 arsenazo  
 NT2 bromosulphothalein  
 NT2 chromotropic acid  
 NT2 eriochrome dyes  
 NT2 evans blue  
 NT2 ferron  
 NT2 methyl orange  
 NT2 nitroso-r salt

NT2 sulfanilic acid  
 NT2 taurine  
 NT2 thorin  
 NT2 tiron  
 NT2 trypan blue  
 NT2 unithiol  
 NT1 thioic acids  
 RT acidification  
 RT anhydrides  
 RT chloranilic acid  
 RT hydrazides  
 RT hydroxamic acids  
 RT nucleotides  
 RT ph value  
 RT picric acid  
 RT rhodizonic acid  
 RT sialic acid  
 RT soaps  
 RT uric acid

**ORGANIC ARSENIC COMPOUNDS**

1999-06-18

UF arsonates  
 BT1 organic compounds  
 NT1 arsenic acids  
 NT2 arsenazo  
 RT arsenic compounds

**ORGANIC BORON COMPOUNDS**

BT1 organic compounds  
 NT1 carboranes  
 RT boron compounds

**ORGANIC BROMINE COMPOUNDS**

UF bromamines  
 UF brominated alicyclic hydrocarbons  
 UF brominated hydrocarbons  
 \*BT1 organic halogen compounds  
 NT1 brominated aliphatic hydrocarbons  
 NT2 bromoform  
 NT2 methyl bromide  
 NT1 brominated aromatic hydrocarbons  
 NT1 bromosulphothalein  
 NT1 bromouracils  
 NT2 budr  
 NT1 eosin  
 RT bromine compounds

**ORGANIC CHLORINE COMPOUNDS**

1996-10-23

UF chlorinated hydrocarbons  
 UF iodochloroquine  
 UF thiophosgene  
 \*BT1 organic halogen compounds  
 NT1 chloral  
 NT1 chlorambucil  
 NT1 chloramines  
 NT1 chloranil  
 NT1 chlorinated alicyclic hydrocarbons  
 NT2 lindane  
 NT1 chlorinated aliphatic hydrocarbons  
 NT2 carbon tetrachloride  
 NT2 chloroform  
 NT2 methyl chloride  
 NT2 pvc  
 NT2 vinyl chloride  
 NT1 chlorinated aromatic hydrocarbons  
 NT2 aldrin  
 NT2 polychlorinated biphenyls  
 NT1 chlorofluorocarbons  
 NT1 chlorouracils  
 NT1 chlorpromazine  
 NT1 ddt  
 NT1 kel-f  
 NT1 methylene chloride  
 NT1 neoprene  
 NT1 nitrogen mustard  
 NT1 phosgene  
 NT1 rose bengal

RT chlorine compounds  
 RT kepone

**ORGANIC COMPOUNDS**

UF compounds (organic)  
 UF voc  
 SF chemicals  
 SF renewable resources  
 NT1 aldehydes  
 NT2 acetaldehyde  
 NT2 acrolein  
 NT2 aldosterone  
 NT2 arabinose  
 NT2 benzaldehyde  
 NT2 chloral  
 NT2 deoxyribose  
 NT2 formaldehyde  
 NT2 furfural  
 NT2 galactose  
 NT2 galacturonic acid  
 NT2 glucose  
 NT2 glucuronic acid  
 NT2 glyoxal  
 NT2 glyoxylic acid  
 NT2 mannose  
 NT2 pyridoxal  
 NT2 ribose  
 NT2 xylose  
 NT1 alkaloids  
 NT2 atropine  
 NT2 cocaine  
 NT2 codeine  
 NT2 colchicine  
 NT2 ephedrine  
 NT2 ergotamine  
 NT2 eserine  
 NT2 lysergic acid  
 NT2 morphine  
 NT3 thebaine  
 NT2 nicotine  
 NT2 oncovin  
 NT2 pilocarpine  
 NT2 quinine  
 NT2 reserpine  
 NT2 strychnine  
 NT2 vinblastine  
 NT1 amines  
 NT2 acridine orange  
 NT2 adenines  
 NT3 kinetin  
 NT2 aminopterin  
 NT2 amphetamines  
 NT3 benzedrine  
 NT2 aniline  
 NT2 benzidine  
 NT2 beta-aminoethyl isothiourrea  
 NT2 bph  
 NT2 cadaverine  
 NT2 catecholamines  
 NT2 chlorambucil  
 NT2 chloramines  
 NT2 chlorpromazine  
 NT2 cupferron  
 NT2 cystamine  
 NT2 cystaphos  
 NT2 cysteamine  
 NT2 cytosine  
 NT2 deferoxamine  
 NT2 dopamine  
 NT2 ephedrine  
 NT2 flavines  
 NT3 acriflavine  
 NT3 proflavine  
 NT2 gammaphos  
 NT2 guanine  
 NT2 hexosamines  
 NT3 glucosamine  
 NT2 histamine  
 NT2 hydroxamic acids

- NT3 benzohydroxamic acid  
 NT2 hydroxylamine  
 NT2 imipramine  
 NT2 luminol  
 NT2 melamine  
 NT2 methyl orange  
 NT2 methyl violet  
 NT2 methylamine  
 NT2 methylene blue  
 NT2 morpholines  
 NT2 mucopolysaccharides  
   NT3 chitin  
   NT3 chondroitin  
   NT3 heparin  
   NT3 hyaluronic acid  
 NT2 nitrogen mustard  
 NT2 nitrosamines  
 NT2 oximes  
   NT3 benzoinoxime  
   NT3 dimethylglyoxime  
 NT2 piperidines  
   NT3 dipyridamole  
   NT3 pethidine  
   NT3 triacetoneamine-n-oxyl  
 NT2 polycyclic aromatic amines  
 NT2 primene  
 NT2 putrescine  
 NT2 pyrrolidines  
   NT3 hydroxyproline  
   NT3 nicotine  
   NT3 proline  
 NT2 quaternary compounds  
   NT3 acetylcholine  
   NT3 betaine  
   NT3 choline  
   NT3 pyridinium compounds  
 NT2 rhodamines  
 NT2 spermidine  
 NT2 spermine  
 NT2 sulfanilic acid  
 NT2 taurine  
 NT2 tda  
 NT2 teta  
 NT2 tetryl  
 NT2 thiamine  
 NT2 thionine  
 NT2 toluidines  
 NT2 tridodecylamine  
 NT2 trioctylamine  
 NT2 trypan blue  
 NT2 tryptamines  
   NT3 melatonin  
   NT3 serotonin  
   NT4 bufotenine  
 NT2 tyramine  
 NT2 urotropin  
 NT1 antibiotics  
   NT2 actinomycin  
   NT2 bleomycin  
   NT2 chloramphenicol  
   NT2 cycloheximide  
   NT2 doxorubicin  
   NT2 erythromycin  
   NT2 mitomycin  
   NT2 neocarcinostatin  
   NT2 neomycin  
   NT2 penicillin  
   NT2 puromycin  
   NT2 streptomycin  
   NT2 streptozocin  
   NT2 tetracyclines  
   NT3 oxytetracycline  
   NT2 valinomycin  
 NT1 aromatics  
   NT2 acetophenone  
   NT2 alkylated aromatics  
     NT3 mesitylene  
     NT3 methylnaphthalenes  
     NT3 styrene  
   NT3 toluene  
   NT3 xylenes  
     NT4 xylene-para  
 NT2 aniline  
 NT2 azaarenes  
   NT3 acridines  
     NT4 acridine orange  
     NT4 flavines  
     NT5 acriflavine  
     NT5 proflavine  
   NT3 carbazoles  
   NT3 indoles  
     NT4 indigo  
     NT4 indocyanine green  
     NT4 lysergic acid  
     NT4 reserpine  
     NT4 strychnine  
     NT4 tryptamines  
     NT5 melatonin  
     NT5 serotonin  
     NT6 bufotenine  
   NT4 tryptophan  
   NT4 vinblastine  
   NT3 phenanthrolines  
     NT4 feroin  
     NT4 phenanthroline-ortho  
   NT3 pteridines  
     NT4 aminopterin  
     NT4 folic acid  
   NT3 purines  
     NT4 adenines  
     NT5 kinetin  
     NT4 guanine  
     NT4 guanosine  
     NT4 hypoxanthine  
     NT4 inosine  
     NT4 mercaptopurine  
     NT4 xanthines  
     NT5 caffeine  
     NT5 theobromine  
     NT5 theophylline  
     NT5 uric acid  
   NT3 quinolines  
     NT4 ferron  
     NT4 oxine  
     NT4 quinaldine  
 NT2 benzene  
 NT2 benzidine  
 NT2 benzyl alcohol  
 NT2 bibenzyl  
 NT2 biphenyl  
 NT2 condensed aromatics  
   NT3 3-methylcholanthrene  
   NT3 acenaphthene  
   NT3 anthracene  
   NT3 benzanthracene  
   NT3 benzopyrene  
   NT3 calixarenes  
   NT3 cholanthrene  
   NT3 chrysene  
   NT3 dimethylbenzanthracene  
   NT3 fluorene  
   NT3 indene  
   NT3 indocyanine green  
   NT3 methylnaphthalenes  
   NT3 naphthalene  
   NT3 pentacene  
   NT3 perylene  
   NT3 phenanthrene  
   NT3 pyrene  
   NT3 tetracene  
   NT3 triphenylene  
 NT2 cumene  
 NT2 cymene  
 NT2 ddt  
 NT2 divinylbenzene  
 NT2 durene  
 NT2 halogenated aromatic hydrocarbons  
   NT3 brominated aromatic hydrocarbons  
   NT3 chlorinated aromatic hydrocarbons  
     NT4 aldrin  
     NT4 polychlorinated biphenyls  
   NT3 fluorinated aromatic hydrocarbons  
   NT3 iodinated aromatic hydrocarbons  
 NT2 indan  
 NT2 methyl tyrosine  
 NT2 mibg  
 NT2 oligophenylenes  
 NT2 pethidine  
 NT2 phenols  
   NT3 cresols  
   NT3 dinitrophenol  
   NT3 eriochrome dyes  
   NT3 hydroxypropiophenone  
   NT3 naphthols  
     NT4 1-nitroso-2-naphthol  
     NT4 nitroso-r salt  
     NT4 pyridylazonaphthol  
     NT4 thorin  
     NT4 trypan blue  
   NT3 nitrophenol  
   NT3 phenol  
   NT3 phenolphthalein  
   NT3 picric acid  
   NT3 polyphenols  
     NT4 arsenazo  
     NT4 bromosulfophthalein  
     NT4 catecholamines  
     NT4 curcumin  
     NT4 dopamine  
     NT4 fluorescein  
     NT5 erythrosine  
     NT4 hematoxylin  
     NT4 morin  
     NT4 pyridylazoresorcinol  
     NT4 pyrocatechol  
     NT4 pyrogallol  
     NT4 quercetin  
     NT4 resorcinol  
     NT4 stilbestrol  
     NT4 tannic acid  
     NT4 tiron  
   NT3 thymol  
   NT3 tyramine  
   NT3 xylenols  
 NT2 phenylalaninyl  
 NT2 polycyclic aromatic hydrocarbons  
   NT3 3-methylcholanthrene  
 NT2 polyphenyls  
   NT3 terphenyls  
     NT4 terphenyl-ortho  
     NT4 terphenyl-para  
 NT2 quaterphenyls  
 NT2 quinones  
   NT3 anthraquinones  
     NT4 alizarin  
     NT4 carminic acid  
     NT4 quinizarin  
   NT3 benzoquinones  
     NT4 chloranil  
     NT4 chloranilic acid  
     NT4 plastoquinone  
     NT4 ubiquinone  
   NT3 rhodizonic acid  
   NT3 vitamin k  
 NT2 stilbene  
 NT2 tetralin  
 NT2 tolan  
 NT1 carbohydrates  
   NT2 glycosides  
     NT3 cardiac glycosides  
     NT4 digitalis glycosides  
     NT5 digitoxin  
     NT5 digoxin

- NT4 strophanthins  
 NT5 ouabain  
 NT3 saponins  
 NT3 strophanthin  
 NT3 uridine diphosphoglucose  
 NT2 saccharides  
 NT3 glycolipids  
 NT4 cerebrosides  
 NT4 gangliosides  
 NT3 glycoproteins  
 NT4 avidin  
 NT4 glucoproteins  
 NT5 lactoferrin  
 NT5 ovalbumin  
 NT4 luteinizing hormone  
 NT3 monosaccharides  
 NT4 erythritol  
 NT4 hexoses  
 NT5 fructose  
 NT5 galactose  
 NT5 glucose  
 NT5 hexosamines  
 NT6 glucosamine  
 NT5 mannose  
 NT5 sorbose  
 NT4 inositols  
 NT5 inositol  
 NT4 pentoses  
 NT5 arabinose  
 NT5 deoxyribose  
 NT5 ribose  
 NT5 ribulose  
 NT5 xylose  
 NT4 sorbitol  
 NT3 oligosaccharides  
 NT4 disaccharides  
 NT5 cellobiose  
 NT5 lactose  
 NT5 maltose  
 NT5 saccharose  
 NT4 raffinose  
 NT3 polysaccharides  
 NT4 agar  
 NT4 alginic acid  
 NT4 cellophane  
 NT4 cellulose  
 NT4 dextran  
 NT4 dextrin  
 NT4 glycogen  
 NT4 gum acacia  
 NT4 hemicellulose  
 NT5 xylans  
 NT4 inulin  
 NT4 lignin  
 NT4 lipopolysaccharides  
 NT4 mucopolysaccharides  
 NT5 chitin  
 NT5 chondroitin  
 NT5 heparin  
 NT5 hyaluronic acid  
 NT4 mucoproteins  
 NT5 haptoglobins  
 NT5 intrinsic factor  
 NT5 phytohemagglutinin  
 NT4 nitrocellulose  
 NT4 pectins  
 NT4 rayon  
 NT4 starch  
 NT4 viscose  
 NT4 xanthan gum  
 NT1 carbonic acid derivatives  
 NT2 carbamates  
 NT3 dedtc  
 NT3 urethane  
 NT2 carbazides  
 NT2 carbazones  
 NT3 dithizone  
 NT2 cyanamides  
 NT2 cyanates  
 NT2 dpca  
 NT2 guanidines  
 NT3 mibg  
 NT2 isocyanates  
 NT2 isonitriles  
 NT2 isothiocyanates  
 NT2 mercaptoethylguanidine  
 NT2 methyl nitrosourea  
 NT2 phosgene  
 NT2 semicarbazides  
 NT2 semicarbazones  
 NT2 thiocyanates  
 NT3 ammonium thiocyanates  
 NT2 thioureas  
 NT3 beta-aminoethyl isothiourea  
 NT3 thiourea  
 NT2 urea  
 NT1 coal tar bases  
 NT1 esters  
 NT2 acetylcholine  
 NT2 carbonic acid esters  
 NT2 carboxylic acid esters  
 NT3 acetic acid esters  
 NT4 methyl acetate  
 NT4 polyvinyl acetate  
 NT4 vinyl acetate  
 NT3 acetoacetic acid esters  
 NT3 acrylic acid esters  
 NT3 bromsulphophthalein  
 NT3 carbamic acid esters  
 NT3 citric acid esters  
 NT3 glucoheptonate  
 NT3 malathion  
 NT3 methacrylic acid esters  
 NT3 oxalic acid esters  
 NT3 phenolphthalein  
 NT3 retinoic acid  
 NT2 cellulose esters  
 NT3 nitrocellulose  
 NT2 isocyanic acid esters  
 NT2 lactones  
 NT3 coumarin  
 NT3 gibberellic acid  
 NT2 nitric acid esters  
 NT3 nitrocellulose  
 NT3 nitroglycerin  
 NT3 peroxyacetyl nitrate  
 NT3 petn  
 NT2 nitrous acid esters  
 NT2 phorbol esters  
 NT2 phosphinic acid esters  
 NT2 phospholipids  
 NT3 cardioliipin  
 NT3 lecithins  
 NT3 sphingomyelins  
 NT2 phosphonic acid esters  
 NT3 dampa  
 NT3 dhdecmp  
 NT2 phosphoric acid esters  
 NT3 butyl phosphates  
 NT4 dbp  
 NT4 mbp  
 NT4 tbp  
 NT3 hdehp  
 NT3 mdpa  
 NT3 phytic acid  
 NT3 tcp  
 NT2 phthalic acid esters  
 NT2 polyacrylates  
 NT3 lucite  
 NT3 perspex  
 NT3 plexiglas  
 NT3 pmma  
 NT2 polyesters  
 NT3 dacron  
 NT3 homalite  
 NT3 mylar  
 NT2 sulfonic acid esters  
 NT3 alkyl benzenesulfonates  
 NT3 ethyl methanesulfonate  
 NT3 methyl methanesulfonate  
 NT3 petroleum sulfonates  
 NT2 sulfuric acid esters  
 NT2 thiophosphoric acid esters  
 NT3 cystaphos  
 NT3 gammaphos  
 NT3 parathion  
 NT2 triglycerides  
 NT3 corn oil  
 NT3 linseed oil  
 NT3 olive oil  
 NT3 peanut oil  
 NT3 soybean oil  
 NT3 triolein  
 NT1 heterocyclic compounds  
 NT2 azaarenes  
 NT3 acridines  
 NT4 acridine orange  
 NT4 flavines  
 NT5 acriflavine  
 NT5 proflavine  
 NT3 carbazoles  
 NT3 indoles  
 NT4 indigo  
 NT4 indocyanine green  
 NT4 lysergic acid  
 NT4 reserpine  
 NT4 strychnine  
 NT4 tryptamines  
 NT5 melatonin  
 NT5 serotonin  
 NT6 bufotenine  
 NT4 tryptophan  
 NT4 vinblastine  
 NT3 phenanthrolines  
 NT4 ferroin  
 NT4 phenanthroline-ortho  
 NT3 pteridines  
 NT4 aminopterin  
 NT4 folic acid  
 NT3 purines  
 NT4 adenines  
 NT5 kinetin  
 NT4 guanine  
 NT4 guanosine  
 NT4 hypoxanthine  
 NT4 inosine  
 NT4 mercaptopurine  
 NT4 xanthines  
 NT5 caffeine  
 NT5 theobromine  
 NT5 theophylline  
 NT5 uric acid  
 NT3 quinolines  
 NT4 ferron  
 NT4 oxine  
 NT4 quinaldine  
 NT2 azines  
 NT3 phenothiazines  
 NT4 chlorpromazine  
 NT4 methylene blue  
 NT3 pyrazines  
 NT4 phenazine  
 NT4 piperazines  
 NT3 pyridazines  
 NT4 phthalazines  
 NT5 luminol  
 NT3 pyridines  
 NT4 acridines  
 NT5 acridine orange  
 NT5 flavines  
 NT6 acriflavine  
 NT6 proflavine  
 NT4 bipyridines  
 NT4 nicotinamide  
 NT4 nicotine  
 NT4 nicotinic acid  
 NT4 picolines

- NT5 picolinic acid  
 NT4 piperidines  
 NT5 dipyridamole  
 NT5 pethidine  
 NT5 triacetoneamine-n-oxyl  
 NT4 pyridine  
 NT4 pyridinium compounds  
 NT4 pyridoxal  
 NT4 pyridoxine  
 NT4 pyridoxylideneglutamate  
 NT4 pyridylazonaphthol  
 NT4 pyridylazoresorcinol  
 NT4 quinolines  
 NT5 ferron  
 NT5 oxine  
 NT5 quinaldine  
 NT3 pyrimidines  
 NT4 alloxan  
 NT4 barbiturates  
 NT5 nembutal  
 NT5 phenobarbital  
 NT4 cytidine  
 NT4 cytosine  
 NT4 deoxycytidine  
 NT4 thiamine  
 NT4 thymidine  
 NT4 uracils  
 NT5 bromouracils  
 NT6 budr  
 NT5 chlorouracils  
 NT5 deoxyuridine  
 NT5 fluorouracils  
 NT6 fudr  
 NT5 iodouracils  
 NT6 iododeoxyuridine  
 NT5 orotic acid  
 NT5 thiouracil  
 NT5 thymine  
 NT5 uridine  
 NT3 triazines  
 NT4 cyanurates  
 NT4 melamine  
 NT2 azoles  
 NT3 carbazoles  
 NT3 imidazoles  
 NT4 allantoin  
 NT4 benzimidazoles  
 NT4 biotin  
 NT4 creatinine  
 NT4 histamine  
 NT4 histidine  
 NT4 hydantoins  
 NT4 metronidazole  
 NT4 misonidazole  
 NT4 urocanic acid  
 NT3 oxadiazoles  
 NT3 oxazoles  
 NT4 benzoxazoles  
 NT4 popop  
 NT3 pyrazoles  
 NT4 indazoles  
 NT4 pyrazolines  
 NT5 antipyrine  
 NT3 pyrroles  
 NT4 bilirubin  
 NT4 indoles  
 NT5 indigo  
 NT5 indocyanine green  
 NT5 lysergic acid  
 NT5 reserpine  
 NT5 strychnine  
 NT5 tryptamines  
 NT6 melatonin  
 NT6 serotonin  
 NT7 bufotenine  
 NT5 tryptophan  
 NT5 vinblastine  
 NT4 pyrrolidines  
 NT5 hydroxyproline  
 NT5 nicotine  
 NT5 proline  
 NT4 pyrrolidones  
 NT5 pvp  
 NT3 tetrazoles  
 NT4 tetrazolium  
 NT3 thiadiazoles  
 NT3 thiazoles  
 NT4 benzothiazoles  
 NT4 saccharin  
 NT4 thiamine  
 NT3 triazoles  
 NT2 bedt-ttf  
 NT2 dioxane  
 NT2 dioxin  
 NT2 furans  
 NT3 benzofurans  
 NT3 furfural  
 NT3 tetrahydrofuran  
 NT4 mthf  
 NT2 heterocyclic acids  
 NT3 bilirubin  
 NT3 biotin  
 NT3 histidine  
 NT3 hydroxyproline  
 NT3 lysergic acid  
 NT3 nicotinic acid  
 NT3 orotic acid  
 NT3 picolinic acid  
 NT3 porphyrins  
 NT4 chlorins  
 NT4 chlorophyll  
 NT4 hematoporphyrins  
 NT4 heme  
 NT4 hemoglobin  
 NT5 methemoglobin  
 NT4 hemosiderin  
 NT4 myoglobin  
 NT4 protoporphyrins  
 NT3 proline  
 NT3 rhodamines  
 NT3 thioctic acid  
 NT3 tryptophan  
 NT3 urocanic acid  
 NT2 heterocyclic oxygen compounds  
 NT3 pyrans  
 NT4 coumarin  
 NT4 hematoxylin  
 NT4 pyrones  
 NT4 quercetin  
 NT4 tetrahydropyran  
 NT2 imipramine  
 NT2 isoalloxazines  
 NT3 diaphorase  
 NT2 lactones  
 NT3 coumarin  
 NT3 gibberellic acid  
 NT2 morpholines  
 NT2 phthalocyanines  
 NT2 polycyclic sulfur heterocycles  
 NT2 psoralen  
 NT2 tetrathiafulvalene  
 NT2 thionaphthenes  
 NT2 thionine  
 NT2 thiophene  
 NT2 tmtsf  
 NT2 trioxanes  
 NT2 tta  
 NT2 ttf-tnq  
 NT1 hydroaromatics  
 NT2 tetralin  
 NT1 hydrocarbons  
 NT2 acenaphthene  
 NT2 alkanes  
 NT3 2-2-dimethylpropane  
 NT3 2-methylbutane  
 NT3 2-methylpropane  
 NT3 butane  
 NT3 cycloalkanes  
 NT4 cyclohexane  
 NT4 decalin  
 NT3 decane  
 NT3 dodecane  
 NT3 ethane  
 NT3 heptane  
 NT3 hexadecane  
 NT3 hexane  
 NT3 methane  
 NT3 octane  
 NT3 paraffin  
 NT3 pentane  
 NT3 propane  
 NT3 squalane  
 NT2 alkenes  
 NT3 2-methylpropene  
 NT3 butenes  
 NT3 cycloalkenes  
 NT4 cyclopentadiene  
 NT4 norbornadiene  
 NT4 quadricyclene  
 NT3 ethylene  
 NT3 heptenes  
 NT3 hexenes  
 NT3 octenes  
 NT3 pentenes  
 NT3 propylene  
 NT2 alkynes  
 NT3 acetylene  
 NT3 cycloalkynes  
 NT3 propyne  
 NT2 anthracene  
 NT2 azulene  
 NT2 benzanthracene  
 NT2 benzene  
 NT2 benzopyrene  
 NT2 biphenyl  
 NT2 carotenoids  
 NT2 chrysene  
 NT2 cumene  
 NT2 cymene  
 NT2 divinylbenzene  
 NT2 durene  
 NT2 fluorene  
 NT2 indan  
 NT2 indene  
 NT2 mesitylene  
 NT2 naphthalene  
 NT2 oligophenylenes  
 NT2 pentacene  
 NT2 phenanthrene  
 NT2 polycyclic aromatic hydrocarbons  
 NT3 3-methylcholanthrene  
 NT2 polyenes  
 NT3 dienes  
 NT4 allene  
 NT4 butadiene  
 NT4 cyclopentadiene  
 NT4 ferrocene  
 NT4 isoprene  
 NT4 pentadienes  
 NT3 polyacetylenes  
 NT3 squalene  
 NT2 polyphenyls  
 NT3 terphenyls  
 NT4 terphenyl-ortho  
 NT4 terphenyl-para  
 NT2 pyrene  
 NT2 quaterphenyls  
 NT2 stilbene  
 NT2 styrene  
 NT2 tetracene  
 NT2 tetralin  
 NT2 tolan  
 NT2 toluene  
 NT2 triphenylene  
 NT2 xylenes  
 NT3 xylene-para  
 NT1 hydroxy compounds

- NT2 alcohols  
 NT3 2-methylpropanol  
 NT3 benzhydrol  
 NT3 benzyl alcohol  
 NT3 butanols  
 NT3 choline  
 NT3 cyclohexanol  
 NT3 decanols  
 NT3 enols  
 NT3 erythritol  
 NT3 ethanol  
 NT3 glycerol  
 NT3 glycols  
 NT4 butanediols  
 NT4 cellosolves  
 NT4 egta  
 NT4 pinacol  
 NT4 polyethylene glycols  
 NT5 carbowax  
 NT5 pluronics  
 NT3 hexanols  
 NT3 methanol  
 NT3 metronidazole  
 NT3 misonidazole  
 NT3 octanols  
 NT3 pentanols  
 NT3 propanols  
 NT3 pva  
 NT2 alizarin  
 NT2 androsterone  
 NT2 bph  
 NT2 carminic acid  
 NT2 chromotropic acid  
 NT2 corticosteroids  
 NT3 glucocorticoids  
 NT4 corticosterone  
 NT4 cortisone  
 NT4 dexamethasone  
 NT4 hydrocortisone  
 NT4 prednisolone  
 NT4 prednisone  
 NT3 mineralocorticoids  
 NT4 aldosterone  
 NT2 cupferron  
 NT2 ephedrine  
 NT2 estradiol  
 NT2 estriol  
 NT2 estrone  
 NT2 ferron  
 NT2 folic acid  
 NT2 guanine  
 NT2 hydroxamic acids  
 NT3 benzohydroxamic acid  
 NT2 hydroxyandrostenone  
 NT2 hydroxypregnenone  
 NT2 hydroxyurea  
 NT2 hypoxanthine  
 NT2 melanin  
 NT2 oximes  
 NT3 benzoinoxime  
 NT3 dimethylglyoxime  
 NT2 oxine  
 NT2 phenols  
 NT3 cresols  
 NT3 dinitrophenol  
 NT3 eriochrome dyes  
 NT3 hydroxypropiofenone  
 NT3 naphthols  
 NT4 1-nitroso-2-naphthol  
 NT4 nitroso-r salt  
 NT4 pyridylazonaphthol  
 NT4 thorin  
 NT4 trypan blue  
 NT3 nitrophenol  
 NT3 phenol  
 NT3 phenolphthalein  
 NT3 picric acid  
 NT3 polyphenols  
 NT4 arsenazo  
 NT4 bromosulphophthalein  
 NT4 catecholamines  
 NT4 curcumin  
 NT4 dopamine  
 NT4 fluorescein  
 NT5 erythrosine  
 NT4 hematoxylin  
 NT4 morin  
 NT4 pyridylazoresorcinol  
 NT4 pyrocatechol  
 NT4 pyrogallol  
 NT4 quercetin  
 NT4 resorcinol  
 NT4 stilbestrol  
 NT4 tannic acid  
 NT4 tiron  
 NT3 thymol  
 NT3 tyramine  
 NT3 xylenols  
 NT2 pyridoxine  
 NT2 quinizarin  
 NT2 rhodizonic acid  
 NT2 serotonin  
 NT3 bufotenine  
 NT2 sterols  
 NT3 bile acids  
 NT4 cholic acid  
 NT3 cholesterol  
 NT3 ergosterol  
 NT3 sitosterol  
 NT2 testosterone  
 NT2 thiamine  
 NT2 uracils  
 NT3 bromouracils  
 NT4 budr  
 NT3 chlorouracils  
 NT3 deoxyuridine  
 NT3 fluorouracils  
 NT4 fudr  
 NT3 iodouracils  
 NT4 iododeoxyuridine  
 NT3 orotic acid  
 NT3 thiouracil  
 NT3 thymine  
 NT3 uridine  
 NT1 isoenzymes  
 NT1 ketones  
 NT2 2-3-pentanedione  
 NT2 acetone  
 NT2 acetophenone  
 NT2 acetylacetone  
 NT2 androstenedione  
 NT2 androsterone  
 NT2 benzophenone  
 NT2 camphor  
 NT2 corticosteroids  
 NT3 glucocorticoids  
 NT4 corticosterone  
 NT4 cortisone  
 NT4 dexamethasone  
 NT4 hydrocortisone  
 NT4 prednisolone  
 NT4 prednisone  
 NT3 mineralocorticoids  
 NT4 aldosterone  
 NT2 curcumin  
 NT2 cyclohexanone  
 NT2 estrone  
 NT2 fructose  
 NT2 hydroxyandrostenone  
 NT2 hydroxypregnenone  
 NT2 hydroxypropiofenone  
 NT2 methyl isobutyl ketone  
 NT2 progesterone  
 NT2 ribulose  
 NT2 sorbose  
 NT2 testosterone  
 NT2 triacetoneamine-n-oxyl  
 NT2 tropones  
 NT2 tta  
 NT1 lipids  
 NT2 glycolipids  
 NT3 cerebrosides  
 NT3 gangliosides  
 NT2 lipopolysaccharides  
 NT2 lipoproteins  
 NT3 apolipoproteins  
 NT3 myelin  
 NT2 phospholipids  
 NT3 cardiolipin  
 NT3 lecithins  
 NT3 sphingomyelins  
 NT2 triglycerides  
 NT3 corn oil  
 NT3 linseed oil  
 NT3 olive oil  
 NT3 peanut oil  
 NT3 soybean oil  
 NT3 triolein  
 NT1 nucleic acids  
 NT2 dna  
 NT3 contigs  
 NT3 oligonucleotides  
 NT3 recombinant dna  
 NT2 rna  
 NT3 messenger-rna  
 NT3 ribosomal rna  
 NT3 transfer rna  
 NT1 nucleotides  
 NT2 adenylic acid  
 NT2 adp  
 NT2 amp  
 NT2 atp  
 NT2 cytidylic acid  
 NT2 guanylic acid  
 NT2 nad  
 NT2 nadh2  
 NT2 nadp  
 NT2 nucleosides  
 NT3 adenosine  
 NT3 budr  
 NT3 cytidine  
 NT3 deoxycytidine  
 NT3 deoxyuridine  
 NT3 fudr  
 NT3 guanosine  
 NT3 inosine  
 NT3 iododeoxyuridine  
 NT3 thymidine  
 NT3 uridine  
 NT2 thymidylic acid  
 NT2 ump  
 NT2 uridine diphosphoglucose  
 NT2 uridylic acid  
 NT2 utp  
 NT1 organic acids  
 NT2 arsonic acids  
 NT3 arsenazo  
 NT2 boronic acids  
 NT2 carboxylic acids  
 NT3 amino acids  
 NT4 alanines  
 NT5 alanine-alpha  
 NT6 alanine-l  
 NT5 alanine-beta  
 NT4 aminobutyric acid  
 NT4 aminolevulinic acid  
 NT4 anthranilic acid  
 NT4 arginine  
 NT4 asparagine  
 NT4 aspartic acid  
 NT4 betaine  
 NT4 carnitine  
 NT4 cdta  
 NT4 citrulline  
 NT4 creatine  
 NT4 cysteine  
 NT4 cystine

- NT4 dcta  
 NT4 diiodotyrosine  
 NT4 dopa  
 NT4 dtpa  
 NT4 eddha  
 NT4 edta  
 NT4 ethionine  
 NT4 folic acid  
 NT4 glutamic acid  
 NT5 pyridoxylideneglutamate  
 NT4 glutamine  
 NT4 glycine  
 NT4 glycyglycine  
 NT4 hedta  
 NT4 heida  
 NT4 hippuric acid  
 NT4 histidine  
 NT4 homocysteine  
 NT4 hydroxyproline  
 NT4 hydroxytryptophan  
 NT4 kynurenine  
 NT4 leucine  
 NT4 lysine  
 NT4 methionine  
 NT4 methyl red  
 NT4 methyl tyrosine  
 NT4 mimosine  
 NT4 mpg  
 NT4 nta  
 NT4 ornithine  
 NT4 paba  
 NT4 pantothenic acid  
 NT4 penicillamine  
 NT4 phenylalanine  
 NT4 phosphocreatine  
 NT4 proline  
 NT4 sarcosine  
 NT4 serine  
 NT4 tetaha  
 NT4 threonine  
 NT4 thyronine  
 NT4 thyroxine  
 NT4 tryptophan  
 NT4 tyrosine  
 NT4 valine  
 NT3 bile acids  
 NT4 cholic acid  
 NT3 carminic acid  
 NT3 dicarboxylic acids  
 NT4 adipic acid  
 NT4 fumaric acid  
 NT4 glutaric acid  
 NT4 itaconic acid  
 NT4 maleic acid  
 NT4 malonic acid  
 NT4 oxalic acid  
 NT4 phthalic acid  
 NT4 sebacic acid  
 NT4 succinic acid  
 NT4 terephthalic acid  
 NT3 egta  
 NT3 glyoxylic acid  
 NT3 heterocyclic acids  
 NT4 bilirubin  
 NT4 biotin  
 NT4 histidine  
 NT4 hydroxyproline  
 NT4 lysergic acid  
 NT4 nicotinic acid  
 NT4 orotic acid  
 NT4 picolinic acid  
 NT4 porphyrins  
 NT5 chlorins  
 NT5 chlorophyll  
 NT5 hematoporphyrins  
 NT5 heme  
 NT5 hemoglobin  
 NT6 methemoglobin  
 NT5 hemosiderin  
 NT5 myoglobin  
 NT5 protoporphyrins  
 NT4 proline  
 NT4 rhodamines  
 NT4 thioctic acid  
 NT4 tryptophan  
 NT4 urocanic acid  
 NT3 hydroxy acids  
 NT4 acetylsalicylic acid  
 NT4 benzilic acid  
 NT4 carnitine  
 NT4 citric acid  
 NT4 diiodotyrosine  
 NT4 dopa  
 NT4 eddha  
 NT4 eosin  
 NT4 fluorescein  
 NT5 erythrosine  
 NT4 galacturonic acid  
 NT4 gallic acid  
 NT4 gibberellic acid  
 NT4 gluconic acid  
 NT4 glucuronic acid  
 NT4 glyceric acid  
 NT4 glycolic acid  
 NT4 hedta  
 NT4 heida  
 NT4 hydroxyproline  
 NT4 hydroxytryptophan  
 NT4 lactic acid  
 NT4 malic acid  
 NT4 mandelic acid  
 NT4 methyl tyrosine  
 NT4 mevalonic acid  
 NT4 pantothenic acid  
 NT4 rose bengal  
 NT4 salicylic acid  
 NT4 serine  
 NT4 shikimic acid  
 NT4 tartaric acid  
 NT4 threonine  
 NT4 thyronine  
 NT4 tyrosine  
 NT3 keto acids  
 NT4 acetoacetic acid  
 NT4 kynurenine  
 NT4 levulinic acid  
 NT4 pyruvic acid  
 NT3 mellitic acid  
 NT3 monocarboxylic acids  
 NT4 abscisic acid  
 NT4 acetic acid  
 NT4 acrylic acid  
 NT4 arachidonic acid  
 NT4 benzoic acid  
 NT4 butyric acid  
 NT4 chlorambucil  
 NT4 cinnamic acid  
 NT4 crotonic acid  
 NT4 decanoic acid  
 NT4 dodecanoic acid  
 NT4 eicosanoic acid  
 NT4 formic acid  
 NT4 glycolic acid  
 NT4 heptanoic acid  
 NT4 hexadecanoic acid  
 NT4 hexanoic acid  
 NT4 isobutyric acid  
 NT4 isovaleric acid  
 NT4 linoleic acid  
 NT4 linolenic acid  
 NT4 methacrylic acid  
 NT4 nicotinic acid  
 NT4 nonanoic acid  
 NT4 octadecanoic acid  
 NT4 octanoic acid  
 NT4 oleic acid  
 NT4 pethidine  
 NT4 pivalic acid  
 NT4 propionic acid  
 NT4 sorbic acid  
 NT4 tetradecanoic acid  
 NT4 uronic acids  
 NT4 valeric acid  
 NT3 tannic acid  
 NT2 coal tar acids  
 NT2 fulvic acids  
 NT2 humic acids  
 NT2 mdpa  
 NT2 phosphinic acids  
 NT2 phosphonic acids  
 NT2 phytic acid  
 NT2 shale tar acids  
 NT2 sulfonic acids  
 NT3 arsenazo  
 NT3 bromosulfophthalein  
 NT3 chromotropic acid  
 NT3 eriochrome dyes  
 NT3 evans blue  
 NT3 ferron  
 NT3 methyl orange  
 NT3 nitroso-r salt  
 NT3 sulfanilic acid  
 NT3 taurine  
 NT3 thorin  
 NT3 tiron  
 NT3 trypan blue  
 NT3 unithiol  
 NT2 thioic acids  
 NT1 organic arsenic compounds  
 NT2 arsonic acids  
 NT3 arsenazo  
 NT1 organic boron compounds  
 NT2 carboranes  
 NT1 organic halogen compounds  
 NT2 halogenated alicyclic hydrocarbons  
 NT3 chlorinated alicyclic hydrocarbons  
 NT4 lindane  
 NT3 fluorinated alicyclic hydrocarbons  
 NT3 iodinated alicyclic hydrocarbons  
 NT2 halogenated aliphatic hydrocarbons  
 NT3 brominated aliphatic hydrocarbons  
 NT4 bromoform  
 NT4 methyl bromide  
 NT3 chlorinated aliphatic hydrocarbons  
 NT4 carbon tetrachloride  
 NT4 chloroform  
 NT4 methyl chloride  
 NT4 pvc  
 NT4 vinyl chloride  
 NT3 fluorinated aliphatic hydrocarbons  
 NT4 carbon tetrafluoride  
 NT4 fluoroform  
 NT4 methyl fluoride  
 NT4 polytetrafluoroethylene  
 NT5 teflon  
 NT4 tedlar  
 NT3 freons  
 NT3 iodinated aliphatic hydrocarbons  
 NT4 iodoform  
 NT4 methyl iodide  
 NT2 halogenated aromatic hydrocarbons  
 NT3 brominated aromatic hydrocarbons  
 NT3 chlorinated aromatic hydrocarbons  
 NT4 aldrin  
 NT4 polychlorinated biphenyls  
 NT3 fluorinated aromatic hydrocarbons  
 NT3 iodinated aromatic hydrocarbons  
 NT2 organic bromine compounds  
 NT3 brominated aliphatic hydrocarbons  
 NT4 bromoform

- NT4 methyl bromide  
 NT3 brominated aromatic hydrocarbons  
 NT3 bromosulphophthalein  
 NT3 bromouracils  
 NT4 budr  
 NT3 eosin  
 NT2 organic chlorine compounds  
 NT3 chloral  
 NT3 chlorambucil  
 NT3 chloramines  
 NT3 chloranil  
 NT3 chlorinated alicyclic hydrocarbons  
 NT4 lindane  
 NT3 chlorinated aliphatic hydrocarbons  
 NT4 carbon tetrachloride  
 NT4 chloroform  
 NT4 methyl chloride  
 NT4 pvc  
 NT4 vinyl chloride  
 NT3 chlorinated aromatic hydrocarbons  
 NT4 aldrin  
 NT4 polychlorinated biphenyls  
 NT3 chlorofluorocarbons  
 NT3 chlorouracils  
 NT3 chlorpromazine  
 NT3 ddt  
 NT3 kel-f  
 NT3 methylene chloride  
 NT3 neoprene  
 NT3 nitrogen mustard  
 NT3 phosgene  
 NT3 rose bengal  
 NT2 organic fluorine compounds  
 NT3 chlorofluorocarbons  
 NT3 fluorinated alicyclic hydrocarbons  
 NT3 fluorinated aliphatic hydrocarbons  
 NT4 carbon tetrafluoride  
 NT4 fluoroform  
 NT4 methyl fluoride  
 NT4 polytetrafluoroethylene  
 NT5 teflon  
 NT4 tedlar  
 NT3 fluorinated aromatic hydrocarbons  
 NT3 fluorouracils  
 NT4 fudr  
 NT3 kel-f  
 NT3 tta  
 NT2 organic iodine compounds  
 NT3 diiodotyrosine  
 NT3 erythrosine  
 NT3 ferron  
 NT3 iodinated alicyclic hydrocarbons  
 NT3 iodinated aliphatic hydrocarbons  
 NT4 iodoform  
 NT4 methyl iodide  
 NT3 iodinated aromatic hydrocarbons  
 NT3 iodouracils  
 NT4 iododeoxyuridine  
 NT3 lipiodol  
 NT3 mibg  
 NT3 pbi  
 NT3 rose bengal  
 NT3 thyroxine  
 NT1 organic mercury compounds  
 NT2 methylmercury  
 NT1 organic nitrogen compounds  
 NT2 amides  
 NT3 acetamide  
 NT3 acrylamide  
 NT3 asparagine  
 NT3 formamide  
 NT3 glutamine  
 NT3 hydroxyurea  
 NT3 lactams  
 NT4 pyrrolidones  
 NT5 pvp  
 NT3 metrizamide  
 NT3 nicotinamide  
 NT3 sulfenamides  
 NT3 sulfonamides  
 NT3 thionalide  
 NT3 urea  
 NT2 amidines  
 NT2 azaarenes  
 NT3 acridines  
 NT4 acridine orange  
 NT4 flavines  
 NT5 acriflavine  
 NT5 proflavine  
 NT3 carbazoles  
 NT3 indoles  
 NT4 indigo  
 NT4 indocyanine green  
 NT4 lysergic acid  
 NT4 reserpine  
 NT4 strychnine  
 NT4 tryptamines  
 NT5 melatonin  
 NT5 serotonin  
 NT6 bufotenine  
 NT4 tryptophan  
 NT4 vinblastine  
 NT3 phenanthrolines  
 NT4 feroin  
 NT4 phenanthroline-ortho  
 NT3 pteridines  
 NT4 aminopterin  
 NT4 folic acid  
 NT3 purines  
 NT4 adenines  
 NT5 kinetin  
 NT4 guanine  
 NT4 guanosine  
 NT4 hypoxanthine  
 NT4 inosine  
 NT4 mercaptopurine  
 NT4 xanthines  
 NT5 caffeine  
 NT5 theobromine  
 NT5 theophylline  
 NT5 uric acid  
 NT3 quinolines  
 NT4 ferron  
 NT4 oxine  
 NT4 quinaldine  
 NT2 azido compounds  
 NT2 azines  
 NT3 phenothiazines  
 NT4 chlorpromazine  
 NT4 methylene blue  
 NT3 pyrazines  
 NT4 phenazine  
 NT4 piperazines  
 NT3 pyridazines  
 NT4 phthalazines  
 NT5 luminol  
 NT3 pyridines  
 NT4 acridines  
 NT5 acridine orange  
 NT5 flavines  
 NT6 acriflavine  
 NT6 proflavine  
 NT4 bipyridines  
 NT4 nicotinamide  
 NT4 nicotine  
 NT4 nicotinic acid  
 NT4 picolines  
 NT5 picolinic acid  
 NT4 piperidines  
 NT5 dipyridamole  
 NT5 pethidine  
 NT5 triacetoneamine-n-oxyl  
 NT4 pyridine  
 NT4 pyridinium compounds  
 NT4 pyridoxal  
 NT4 pyridoxine  
 NT4 pyridoxylideneglutamate  
 NT4 pyridylazonaphthol  
 NT4 pyridylazoresorcinol  
 NT4 quinolines  
 NT5 ferron  
 NT5 oxine  
 NT5 quinaldine  
 NT3 pyrimidines  
 NT4 alloxan  
 NT4 barbiturates  
 NT5 nembutal  
 NT5 phenobarbital  
 NT4 cytidine  
 NT4 cytosine  
 NT4 deoxycytidine  
 NT4 thiamine  
 NT4 thymidine  
 NT4 uracils  
 NT5 bromouracils  
 NT6 budr  
 NT5 chlorouracils  
 NT5 deoxyuridine  
 NT5 fluorouracils  
 NT6 fudr  
 NT5 iodouracils  
 NT6 iododeoxyuridine  
 NT5 orotic acid  
 NT5 thiouracil  
 NT5 thymine  
 NT5 uridine  
 NT3 triazines  
 NT4 cyanurates  
 NT4 melamine  
 NT2 azo compounds  
 NT3 arsenazo  
 NT3 azo dyes  
 NT4 eriochrome dyes  
 NT4 evans blue  
 NT4 methyl orange  
 NT4 methyl red  
 NT4 toluidine blue  
 NT4 trypan blue  
 NT2 azoles  
 NT3 carbazoles  
 NT3 imidazoles  
 NT4 allantoin  
 NT4 benzimidazoles  
 NT4 biotin  
 NT4 creatinine  
 NT4 histamine  
 NT4 histidine  
 NT4 hydantoins  
 NT4 metronidazole  
 NT4 misonidazole  
 NT4 urocanic acid  
 NT3 oxadiazoles  
 NT3 oxazoles  
 NT4 benzoxazoles  
 NT4 popop  
 NT3 pyrazoles  
 NT4 indazoles  
 NT4 pyrazolines  
 NT5 antipyrine  
 NT3 pyrroles  
 NT4 bilirubin  
 NT4 indoles  
 NT5 indigo  
 NT5 indocyanine green  
 NT5 lysergic acid  
 NT5 reserpine  
 NT5 strychnine  
 NT5 tryptamines  
 NT6 melatonin  
 NT6 serotonin  
 NT7 bufotenine  
 NT5 tryptophan

- NT5 vinblastine  
 NT4 pyrrolidines  
 NT5 hydroxyproline  
 NT5 nicotine  
 NT5 proline  
 NT4 pyrrolidones  
 NT5 pvp  
 NT3 tetrazoles  
 NT4 tetrazolium  
 NT3 thiadiazoles  
 NT3 thiazoles  
 NT4 benzothiazoles  
 NT4 saccharin  
 NT4 thiamine  
 NT3 triazoles  
 NT2 carbamates  
 NT3 dedtc  
 NT3 urethane  
 NT2 carbazides  
 NT2 carbazones  
 NT3 dithizone  
 NT2 cyanamides  
 NT2 diazo compounds  
 NT3 pyridylazonaphthol  
 NT3 pyridylazoresorcinol  
 NT3 thorin  
 NT2 dpca  
 NT2 gangliosides  
 NT2 guanidines  
 NT3 mibg  
 NT2 hydrazides  
 NT3 isoniazid  
 NT2 hydrazones  
 NT2 imides  
 NT3 nem  
 NT2 imines  
 NT3 creatinine  
 NT3 schiff bases  
 NT2 imipramine  
 NT2 isoalloxazines  
 NT3 diaphorase  
 NT2 melanin  
 NT2 morpholines  
 NT2 nitriles  
 NT3 acetonitrile  
 NT3 acrylonitrile  
 NT3 propiolonitrile  
 NT3 ttf-tcnq  
 NT2 nitro compounds  
 NT3 dinitrophenol  
 NT3 dpph  
 NT3 metronidazole  
 NT3 misonidazole  
 NT3 nitrobenzene  
 NT3 nitromethane  
 NT3 nitrophenol  
 NT3 picric acid  
 NT3 polycyclic nitro compounds  
 NT3 tetryl  
 NT3 tnt  
 NT2 nitroso compounds  
 NT3 1-nitroso-2-naphthol  
 NT3 methyl nitrosoourea  
 NT3 nitrosamines  
 NT3 nitroso-r salt  
 NT3 nitrosooureas  
 NT2 oximes  
 NT3 benzoinoxime  
 NT3 dimethylglyoxime  
 NT2 parathion  
 NT2 porphyrins  
 NT3 chlorins  
 NT3 chlorophyll  
 NT3 hematoporphyrins  
 NT3 heme  
 NT3 hemoglobin  
 NT4 methemoglobin  
 NT3 hemosiderin  
 NT3 myoglobin  
 NT3 protoporphyrins  
 NT2 semicarbazides  
 NT2 semicarbazones  
 NT2 tamoxifen  
 NT2 thionine  
 NT1 organic oxygen compounds  
 NT2 allantoin  
 NT2 alloxan  
 NT2 barbiturates  
 NT3 nembutal  
 NT3 phenobarbital  
 NT2 benzoyl peroxide  
 NT2 cyanurates  
 NT2 cytosine  
 NT2 dioxane  
 NT2 dioxin  
 NT2 epoxides  
 NT3 araldite  
 NT2 ethers  
 NT3 acetals  
 NT4 acetal  
 NT3 anisole  
 NT3 butyl ether  
 NT3 cellosolves  
 NT3 crown ethers  
 NT3 curcumin  
 NT3 dme  
 NT3 ethyl ether  
 NT3 isopropyl ether  
 NT3 methyl ether  
 NT3 methylal  
 NT3 mexamine  
 NT3 morpholines  
 NT3 phenyl ether  
 NT2 flavonoids  
 NT3 flavones  
 NT4 morin  
 NT4 quercetin  
 NT2 furans  
 NT3 benzofurans  
 NT3 furfural  
 NT3 tetrahydrofuran  
 NT4 mthf  
 NT2 heterocyclic oxygen compounds  
 NT3 pyrans  
 NT4 coumarin  
 NT4 hematoxylin  
 NT4 pyrones  
 NT4 quercetin  
 NT4 tetrahydropyran  
 NT2 isoalloxazines  
 NT3 diaphorase  
 NT2 ketenes  
 NT2 malathion  
 NT2 oxadiazoles  
 NT2 oxazoles  
 NT3 benzoxazoles  
 NT3 popop  
 NT2 psoralen  
 NT2 pyridoxal  
 NT2 quinones  
 NT3 anthraquinones  
 NT4 alizarin  
 NT4 carminic acid  
 NT4 quinizarin  
 NT3 benzoquinones  
 NT4 chloranil  
 NT4 chloranilic acid  
 NT4 plastoquinone  
 NT4 ubiquinone  
 NT3 rhodizonic acid  
 NT3 vitamin k  
 NT2 rhodamines  
 NT2 saccharin  
 NT2 semicarbazides  
 NT2 triacetoneamine-n-oxy  
 NT2 trioxanes  
 NT2 xanthines  
 NT3 caffeine  
 NT3 theobromine  
 NT3 theophylline  
 NT3 uric acid  
 NT1 organic phosphorus compounds  
 NT2 casein  
 NT2 cmpo  
 NT2 cystaphos  
 NT2 malathion  
 NT2 parathion  
 NT2 phosphinic acid esters  
 NT2 phosphinic acids  
 NT2 phosphocreatine  
 NT2 phospholipids  
 NT3 cardiolipin  
 NT3 lecithins  
 NT3 sphingomyelins  
 NT2 phosphonates  
 NT2 phosphonic acid esters  
 NT3 dampa  
 NT3 dhdecmp  
 NT2 phosphonic acids  
 NT2 phosphoric acid esters  
 NT3 butyl phosphates  
 NT4 dbp  
 NT4 mbp  
 NT4 tbp  
 NT3 hdehp  
 NT3 mdpa  
 NT3 phytic acid  
 NT3 tcp  
 NT2 tributylphosphine oxide  
 NT2 trioctylphosphine oxide  
 NT2 trioctylphosphine sulfide  
 NT2 triphenylphosphine oxide  
 NT2 uridine diphosphoglucose  
 NT1 organic polymers  
 NT2 araldite  
 NT2 copolymers  
 NT2 graft polymers  
 NT2 neoprene  
 NT2 plastic foams  
 NT2 plastics  
 NT3 aramids  
 NT3 bakelite  
 NT3 formvar  
 NT3 lucite  
 NT3 mylar  
 NT3 nylon  
 NT3 perspex  
 NT3 plexiglas  
 NT3 polystyrene  
 NT3 polyurethanes  
 NT4 halthane  
 NT3 reinforced plastics  
 NT3 tedlar  
 NT3 teflon  
 NT3 thermoplastics  
 NT2 polyacetals  
 NT3 formvar  
 NT3 polyoxymethylenes  
 NT2 polyacetylenes  
 NT2 polyamides  
 NT3 nylon  
 NT3 polyurethanes  
 NT4 halthane  
 NT2 polycarbonates  
 NT2 polyesters  
 NT3 dacron  
 NT3 homalite  
 NT3 mylar  
 NT2 polyethylene glycols  
 NT3 carbowax  
 NT3 pluronics  
 NT2 polyisoprene  
 NT2 polyolefins  
 NT3 polyethylenes  
 NT4 kel-f  
 NT4 polytetrafluoroethylene  
 NT5 teflon



- NT3 polypropylene  
 NT3 polystyrene  
 NT3 polystyrene-dvb  
 NT2 polyvinyls  
 NT3 polyacrylates  
   NT4 lucite  
   NT4 perspex  
   NT4 plexiglas  
   NT4 pmma  
 NT3 polystyrene  
 NT3 polyvinyl acetate  
 NT3 pva  
 NT3 pvc  
 NT3 pvp  
 NT3 tedlar  
 NT2 resins  
 NT2 rubbers  
   NT3 buna  
   NT3 latex  
   NT3 natural rubber  
   NT3 silastic  
   NT3 viton  
 NT2 textolite  
 NT1 organic silicon compounds  
 NT2 silanes  
 NT2 siloxanes  
   NT3 silicones  
   NT4 silastic  
 NT1 organic sulfur compounds  
 NT2 bedt-ttf  
 NT2 biotin  
 NT2 cystamine  
 NT2 dedtc  
 NT2 dimethyl sulfide  
 NT2 disulfides  
   NT3 cystine  
   NT3 thioctic acid  
 NT2 dithizone  
 NT2 ethionine  
 NT2 heparin  
 NT2 isothiocyanates  
 NT2 methionine  
 NT2 phenothiazines  
   NT3 chlorpromazine  
   NT3 methylene blue  
 NT2 polycyclic sulfur heterocycles  
 NT2 sulfenamides  
 NT2 sulfonamides  
 NT2 sulfonates  
   NT3 indocyanine green  
   NT3 petroleum sulfonates  
 NT2 sulfones  
 NT2 sulfonic acid esters  
   NT3 alkyl benzenesulfonates  
   NT3 ethyl methanesulfonate  
   NT3 methyl methanesulfonate  
   NT3 petroleum sulfonates  
 NT2 sulfonic acids  
   NT3 arsenazo  
   NT3 bromosulfophthalein  
   NT3 chromotropic acid  
   NT3 eriochrome dyes  
   NT3 evans blue  
   NT3 ferron  
   NT3 methyl orange  
   NT3 nitroso-r salt  
   NT3 sulfanilic acid  
   NT3 taurine  
   NT3 thorin  
   NT3 tiron  
   NT3 trypan blue  
   NT3 unithiol  
 NT2 sulfoxides  
   NT3 dmso  
   NT3 dpso  
 NT2 sulfuric acid esters  
 NT2 tetrathiafulvalene  
 NT2 thiadiazoles  
 NT2 thiazoles  
   NT3 benzothiazoles  
   NT3 saccharin  
   NT3 thiamine  
 NT2 thiocyanates  
   NT3 ammonium thiocyanates  
 NT2 thioic acids  
 NT2 thiols  
   NT3 cysteamine  
   NT3 cysteine  
   NT3 dithiols  
     NT4 dimercaprol  
     NT4 unithiol  
   NT3 malathion  
   NT3 mercaptoethylguanidine  
   NT3 mercaptopurine  
   NT3 mpg  
   NT3 penicillamine  
   NT3 thionalide  
   NT3 thiouracil  
 NT2 thionaphthenes  
 NT2 thionates  
 NT2 thionine  
 NT2 thionyl chlorides  
 NT2 thiophene  
 NT2 thiophenols  
 NT2 thioureas  
   NT3 beta-aminoethyl isothioureia  
   NT3 thiourea  
 NT2 trioctylphosphine sulfide  
 NT2 tta  
 NT2 ttf-tcnq  
 NT2 xanthates  
   NT3 viscose  
 NT1 organometallic compounds  
   NT2 grignard reagents  
   NT2 lactoferrin  
   NT2 tetraethyl lead  
 NT1 other organic compounds  
   NT2 amber  
   NT2 asphaltite  
   NT2 oils  
     NT3 coal tar oils  
     NT3 essential oils  
     NT3 fish oil  
     NT3 insulating oils  
     NT3 lipiodol  
     NT3 lubricating oils  
     NT3 pyrolytic oils  
     NT3 road oils  
     NT3 shale tar oils  
     NT3 tall oil  
     NT3 triolein  
     NT3 vegetable oils  
       NT4 castor oil  
       NT4 corn oil  
       NT4 cottonseed oil  
       NT4 linseed oil  
       NT4 olive oil  
       NT4 palm oil  
       NT4 peanut oil  
       NT4 sesame oil  
       NT4 soybean oil  
       NT4 sunflower oil  
     NT3 waste oils  
     NT3 wood oils  
   NT2 pitches  
   NT2 soaps  
   NT2 tar  
     NT3 bitumens  
     NT4 asphalts  
     NT4 coal tar  
     NT4 thucholite  
   NT3 shale tar  
   NT2 waxes  
     NT3 carbowax  
     NT3 paraffin  
 NT1 proteins  
   NT2 actin  
   NT2 albumins  
   NT3 luciferin  
 NT2 blood coagulation factors  
   NT3 fibrin  
   NT3 fibrinogen  
   NT3 kallikrein  
   NT3 plasminogen  
   NT3 prothrombin  
   NT3 thrombin  
   NT3 thromboplastin  
   NT3 urokinase  
 NT2 calmodulin  
 NT2 casein  
 NT2 chlorophyll-binding proteins  
 NT2 complement  
 NT2 cytochromes  
 NT2 enzymes  
   NT3 dna helicases  
   NT3 gene recombination proteins  
   NT3 hydrolases  
     NT4 acid anhydrases  
     NT5 gtp-ases  
     NT5 phosphohydrolases  
     NT6 atp-ase  
   NT4 esterases  
     NT5 carboxylesterases  
     NT6 cholinesterase  
     NT6 lipases  
     NT5 phosphatases  
     NT6 acid phosphatase  
     NT6 alkaline phosphatase  
     NT6 nucleotidases  
     NT5 phosphodiesterases  
     NT6 nucleases  
     NT7 dna-ase  
     NT8 endonucleases  
     NT7 rna-ase  
   NT4 glycosyl hydrolases  
     NT5 o-glycosyl hydrolases  
     NT6 amylase  
     NT6 cellulase  
     NT6 galactosidase  
     NT6 glucosidase  
     NT6 glucuronidase  
     NT6 hyaluronidase  
     NT6 lysozyme  
     NT6 xylanase  
   NT4 non-peptide c-n hydrolases  
     NT5 amidases  
     NT6 arginase  
     NT6 urease  
     NT5 amidinases  
   NT4 peptide hydrolases  
     NT5 acid proteinases  
     NT6 pepsin  
     NT5 aminopeptidases  
     NT5 carboxypeptidases  
     NT5 nonspecific peptidases  
     NT6 renin  
     NT6 urokinase  
     NT5 serine proteinases  
     NT6 chymotrypsin  
     NT6 fibrinolysin  
     NT6 kallikrein  
     NT6 thrombin  
     NT6 trypsin  
     NT5 sh-proteinases  
     NT6 cathepsins  
     NT6 papain  
     NT6 streptococcal proteinase  
   NT3 isomerases  
   NT3 ligases  
   NT3 lyases  
     NT4 carbon-carbon lyases  
     NT5 aldehyde-lyases  
     NT5 aldolases  
     NT5 carboxy-lyases  
     NT6 carboxylase  
     NT6 decarboxylases

NT6 ribulose diphosphate  
     carboxylase  
 NT4 carbon-oxygen lyases  
 NT5 hyaluronidase  
 NT5 hydro-lyases  
 NT6 carbonic anhydrase  
 NT4 cyclases  
 NT4 dna methylases  
 NT3 oxidoreductases  
 NT4 amine oxidases  
 NT4 aryl 4-monooxygenase  
 NT4 diaphorase  
 NT4 hemiacetal dehydrogenases  
     NT5 alcohol dehydrogenase  
     NT5 lactate dehydrogenase  
 NT4 hydrogenases  
 NT4 hydroxylases  
     NT5 tyrosinase  
 NT4 nitro-group dehydrogenases  
     NT5 nitrogenase  
 NT4 oxidases  
     NT5 cytochrome oxidase  
     NT5 luciferase  
 NT4 oxygenases  
     NT5 mixed-function oxidases  
 NT4 peroxidases  
     NT5 catalase  
 NT4 superoxide dismutase  
 NT3 transferases  
     NT4 carbon-group transferases  
     NT5 methyl transferases  
 NT4 glycosyl transferases  
     NT5 hexosyl transferases  
     NT5 pentosyl transferases  
     NT6 hypoxanthine  
         phosphoribosyltransferase  
 NT4 nitrogen transferases  
     NT5 aminotransferases  
 NT4 phosphorus-group transferases  
     NT5 nucleotidyltransferases  
     NT6 polymerases  
         NT7 dna polymerases  
         NT7 rna polymerases  
     NT5 phosphotransferases  
     NT6 hexokinase  
 NT2 gelatin  
 NT2 globins  
     NT3 hemoglobin  
     NT4 methemoglobin  
 NT3 myoglobin  
 NT2 globulins  
     NT3 angiotensin  
     NT3 fibrinogen  
     NT3 globulins-alpha  
         NT4 ceruloplasmin  
         NT4 haptoglobins  
     NT3 globulins-beta  
         NT4 transferrin  
     NT3 globulins-gamma  
     NT3 immunoglobulins  
     NT3 lactoferrin  
     NT3 myosin  
     NT3 thyroglobulin  
 NT2 glycoproteins  
     NT3 avidin  
     NT3 glucoproteins  
         NT4 lactoferrin  
         NT4 ovalbumin  
     NT3 luteinizing hormone  
 NT2 growth factors  
     NT3 lymphokines  
     NT4 interferon  
 NT2 heat-shock proteins  
 NT2 histones  
 NT2 lipoproteins  
     NT3 apolipoproteins  
     NT3 myelin  
 NT2 membrane proteins  
     NT3 porins

NT3 receptors  
 NT3 thylakoid membrane proteins  
     NT4 phycobiliproteins  
     NT5 phycocyanin  
 NT2 metalloproteins  
     NT3 ceruloplasmin  
     NT3 ferredoxin  
     NT3 ferritin  
     NT3 hemocyanin  
     NT3 hemosiderin  
     NT3 lactoferrin  
     NT3 metallothionein  
     NT3 rubredoxin  
     NT3 transferrin  
 NT2 mucoproteins  
     NT3 haptoglobins  
     NT3 intrinsic factor  
     NT3 phytohemagglutinin  
 NT2 nucleoproteins  
 NT2 pbi  
 NT2 peptide hormones  
     NT3 calcitonin  
     NT3 erythropoietin  
     NT3 gastrin  
     NT3 glucagon  
     NT3 insulin  
     NT3 leptin  
     NT3 parathormone  
     NT3 pituitary hormones  
     NT4 acth  
     NT4 gonadotropins  
     NT5 fsh  
     NT5 hcg  
     NT5 lth  
     NT5 luteinizing hormone  
     NT4 liberins  
     NT5 lh-rh  
     NT4 oxytocin  
     NT4 sth  
     NT4 tsh  
     NT4 vasopressin  
 NT3 secretin  
 NT3 thyroid hormones  
     NT4 diiodothyronine  
     NT4 thyrocalcitonin  
     NT4 thyroxine  
     NT4 triiodothyronine  
 NT3 thyronine  
 NT3 trh  
 NT2 peptides  
     NT3 cyclosporine  
     NT3 glycylglycine  
     NT3 polypeptides  
         NT4 calcitonin  
         NT4 endorphins  
         NT5 enkephalins  
         NT4 endothelins  
         NT4 gastrin  
         NT4 glucagon  
         NT4 glutathione  
         NT4 kinins  
         NT5 bradykinin  
     NT4 leptin  
 NT2 peptone  
 NT2 phosphoproteins  
 NT2 phytochromes  
     NT3 chlorophyll  
 NT2 protamines  
 NT2 rhodopsin  
 NT2 scleroproteins  
     NT3 collagen  
     NT3 fibrin  
     NT3 glutin  
     NT3 keratin  
 NT2 transcription factors  
     NT2 tropomyosin  
     NT2 zein  
 NT1 shale tar bases  
 NT1 steroids

NT2 androstanes  
     NT3 androgens  
         NT4 androstenedione  
         NT4 androsterone  
         NT4 hydroxyandrostenedione  
         NT4 testosterone  
 NT2 estranes  
     NT3 estradiol  
     NT3 estriol  
     NT3 estrone  
 NT2 pregnanes  
     NT3 corticosteroids  
         NT4 glucocorticoids  
             NT5 corticosterone  
             NT5 cortisone  
             NT5 dexamethasone  
             NT5 hydrocortisone  
             NT5 prednisolone  
             NT5 prednisone  
         NT4 mineralocorticoids  
             NT5 aldosterone  
     NT3 hydroxyprogesterone  
     NT3 progesterone  
 NT2 sterols  
     NT3 bile acids  
         NT4 cholic acid  
     NT3 cholesterol  
     NT3 ergosterol  
     NT3 sitosterol  
 NT1 terpenes  
     NT2 camphor  
     NT2 carotenoids  
     NT2 squalene  
     NT2 turpentine  
 RT chemical feedstocks  
 RT clathrates  
 RT organic semiconductors  
 RT organic superconductors  
 RT polar compounds  
 RT translocation

## ORGANIC COOLANTS

BT1 coolants  
 RT aromatics  
 RT organic cooled reactors  
 RT polyphenyls  
 RT refrigerants

*organic cooled and heavy water moderated chalk river reactor*

INIS: 1993-11-09; ETDE: 2002-04-17  
 USE zed-2 reactor

*organic cooled and moderated reactor*

1993-11-09  
 USE omr type reactors

*organic cooled heavy water moderated chalk river reactor*

2000-04-12  
 USE zed-2 reactor

## ORGANIC COOLED REACTORS

BT1 reactors  
 NT1 eco reactor  
 NT1 eocr reactor  
 NT1 essor reactor  
 NT1 lwor type reactors  
 NT1 omr type reactors  
     NT2 arbus reactor  
     NT2 omre reactor  
     NT2 pnpf reactor  
 NT1 wr-1 reactor  
 NT1 zed-2 reactor  
 RT organic coolants

## ORGANIC CRYSTAL PHOSPHORS

BT1 phosphors  
 RT anthracene

RT solid scintillation detectors  
RT stilbene

**ORGANIC FLUORINE COMPOUNDS**

UF fluorinated hydrocarbons  
\*BT1 organic halogen compounds  
NT1 chlorofluorocarbons  
NT1 fluorinated alicyclic hydrocarbons  
NT1 fluorinated aliphatic hydrocarbons  
NT2 carbon tetrafluoride  
NT2 fluoroform  
NT2 methyl fluoride  
NT2 polytetrafluoroethylene  
NT3 teflon  
NT2 tedlar  
NT1 fluorinated aromatic hydrocarbons  
NT1 fluorouracils  
NT2 fudr  
NT1 kel-f  
NT1 tta  
RT fluorine compounds

**ORGANIC HALOGEN COMPOUNDS**

UF halogenated hydrocarbons  
BT1 organic compounds  
NT1 halogenated alicyclic hydrocarbons  
NT2 chlorinated alicyclic hydrocarbons  
NT3 lindane  
NT2 fluorinated alicyclic hydrocarbons  
NT2 iodinated alicyclic hydrocarbons  
NT1 halogenated aliphatic hydrocarbons  
NT2 brominated aliphatic hydrocarbons  
NT3 bromoform  
NT3 methyl bromide  
NT2 chlorinated aliphatic hydrocarbons  
NT3 carbon tetrachloride  
NT3 chloroform  
NT3 methyl chloride  
NT3 pvc  
NT3 vinyl chloride  
NT2 fluorinated aliphatic hydrocarbons  
NT3 carbon tetrafluoride  
NT3 fluoroform  
NT3 methyl fluoride  
NT3 polytetrafluoroethylene  
NT4 teflon  
NT3 tedlar  
NT2 freons  
NT2 iodinated aliphatic hydrocarbons  
NT3 iodoform  
NT3 methyl iodide  
NT1 halogenated aromatic hydrocarbons  
NT2 brominated aromatic hydrocarbons  
NT2 chlorinated aromatic hydrocarbons  
NT3 aldrin  
NT3 polychlorinated biphenyls  
NT2 fluorinated aromatic hydrocarbons  
NT2 iodinated aromatic hydrocarbons  
NT1 organic bromine compounds  
NT2 brominated aliphatic hydrocarbons  
NT3 bromoform  
NT3 methyl bromide  
NT2 brominated aromatic hydrocarbons  
NT2 bromosulphothalein  
NT2 bromouracils  
NT3 budr  
NT2 eosin  
NT1 organic chlorine compounds  
NT2 chloral  
NT2 chlorambucil  
NT2 chloramines  
NT2 chloranil  
NT2 chlorinated alicyclic hydrocarbons  
NT3 lindane  
NT2 chlorinated aliphatic hydrocarbons  
NT3 carbon tetrachloride  
NT3 chloroform  
NT3 methyl chloride  
NT3 pvc  
NT3 vinyl chloride

NT2 chlorinated aromatic hydrocarbons  
NT3 aldrin  
NT3 polychlorinated biphenyls  
NT2 chlorofluorocarbons  
NT2 chlorouracils  
NT2 chlorpromazine  
NT2 ddt  
NT2 kel-f  
NT2 methylene chloride  
NT2 neoprene  
NT2 nitrogen mustard  
NT2 phosgene  
NT2 rose bengal  
NT1 organic fluorine compounds  
NT2 chlorofluorocarbons  
NT2 fluorinated alicyclic hydrocarbons  
NT2 fluorinated aliphatic hydrocarbons  
NT3 carbon tetrafluoride  
NT3 fluoroform  
NT3 methyl fluoride  
NT3 polytetrafluoroethylene  
NT4 teflon  
NT3 tedlar  
NT2 fluorinated aromatic hydrocarbons  
NT2 fluorouracils  
NT3 fudr  
NT2 kel-f  
NT2 tta  
NT1 organic iodine compounds  
NT2 diiodotyrosine  
NT2 erythrosine  
NT2 ferron  
NT2 iodinated alicyclic hydrocarbons  
NT2 iodinated aliphatic hydrocarbons  
NT3 iodoform  
NT3 methyl iodide  
NT2 iodinated aromatic hydrocarbons  
NT2 iodouracils  
NT3 iododeoxyuridine  
NT2 lipiodol  
NT2 mibg  
NT2 pbi  
NT2 rose bengal  
NT2 thyroxine  
RT halogen compounds  
RT refrigerants

**ORGANIC INSULATORS**

RT dielectric materials  
RT electrical insulation  
RT electrical insulators

**ORGANIC IODINE COMPOUNDS**

1996-10-23  
UF diodrast  
UF hypaque  
UF iodinated hydrocarbons  
UF iodochloroquine  
UF iodopyracet  
UF ioglycamic acid  
UF risa  
\*BT1 organic halogen compounds  
NT1 diiodotyrosine  
NT1 erythrosine  
NT1 ferron  
NT1 iodinated alicyclic hydrocarbons  
NT1 iodinated aliphatic hydrocarbons  
NT2 iodoform  
NT2 methyl iodide  
NT1 iodinated aromatic hydrocarbons  
NT1 iodouracils  
NT2 iododeoxyuridine  
NT1 lipiodol  
NT1 mibg  
NT1 pbi  
NT1 rose bengal  
NT1 thyroxine  
RT iodine compounds

**ORGANIC ION EXCHANGERS**

UF amberlite  
UF dowex  
UF permutit (organic)  
\*BT1 ion exchange materials  
NT1 polystyrene-dvb

**ORGANIC MATTER**

INIS: 1982-07-22; ETDE: 1980-10-27  
Only for unspecified materials containing chain and ring compounds of carbon; if specific organic compounds are studied, use descriptors for the compounds.  
BT1 matter  
NT1 kerogen  
NT1 peat  
RT acid neutralizing capacity  
RT carbonaceous materials  
RT geochemistry

**ORGANIC MERCURY COMPOUNDS**

1999-03-03  
BT1 organic compounds  
NT1 methylmercury  
RT mercury compounds

**organic moderated reactor experiment**

1993-11-09  
USE omre reactor

**organic moderated reactor piqua**

2000-04-12  
USE pnpf reactor

**ORGANIC MODERATED REACTORS**

BT1 reactors  
NT1 akr-1 reactor  
NT1 eocr reactor  
NT1 omr type reactors  
NT2 arbus reactor  
NT2 omre reactor  
NT2 pnpf reactor  
NT1 rospo reactor  
NT1 sur-100 series reactor  
NT1 viper reactor  
NT1 zerlina reactor  
RT organic moderators

**ORGANIC MODERATORS**

BT1 moderators  
RT aromatics  
RT organic moderated reactors  
RT polyphenyls

**ORGANIC NITROGEN COMPOUNDS**

1996-10-23  
Excluding those concepts included under the descriptors: PROTEINS, AMINES, ALKALOIDS, AMINO ACIDS, NUCLEIC ACIDS, and NUCLEOTIDES.  
UF guanethidine  
UF imidines  
BT1 organic compounds  
NT1 amides  
NT2 acetamide  
NT2 acrylamide  
NT2 asparagine  
NT2 formamide  
NT2 glutamine  
NT2 hydroxyurea  
NT2 lactams  
NT3 pyrrolidones  
NT4 pvp  
NT2 metrizamide  
NT2 nicotinamide  
NT2 sulfenamides  
NT2 sulfonamides

- NT2 thionalide  
 NT2 urea  
 NT1 amidines  
 NT1 azaarenes  
 NT2 acridines  
   NT3 acridine orange  
   NT3 flavines  
     NT4 acriflavine  
     NT4 proflavine  
 NT2 carbazoles  
 NT2 indoles  
   NT3 indigo  
   NT3 indocyanine green  
   NT3 lysergic acid  
   NT3 reserpine  
   NT3 strychnine  
   NT3 tryptamines  
     NT4 melatonin  
     NT4 serotonin  
     NT5 bufotenine  
   NT3 tryptophan  
   NT3 vinblastine  
 NT2 phenanthrolines  
   NT3 ferroin  
   NT3 phenanthroline-ortho  
 NT2 pteridines  
   NT3 aminopterin  
   NT3 folic acid  
 NT2 purines  
   NT3 adenines  
     NT4 kinetin  
   NT3 guanine  
   NT3 guanosine  
   NT3 hypoxanthine  
   NT3 inosine  
   NT3 mercaptopurine  
   NT3 xanthines  
     NT4 caffeine  
     NT4 theobromine  
     NT4 theophylline  
     NT4 uric acid  
 NT2 quinolines  
   NT3 ferron  
   NT3 oxine  
   NT3 quinaldine  
 NT1 azido compounds  
 NT1 azines  
   NT2 phenothiazines  
     NT3 chlorpromazine  
     NT3 methylene blue  
 NT2 pyrazines  
   NT3 phenazine  
   NT3 piperazines  
 NT2 pyridazines  
   NT3 phthalazines  
     NT4 luminol  
 NT2 pyridines  
   NT3 acridines  
     NT4 acridine orange  
     NT4 flavines  
     NT5 acriflavine  
     NT5 proflavine  
   NT3 bipyridines  
   NT3 nicotinamide  
   NT3 nicotine  
   NT3 nicotinic acid  
   NT3 picolines  
     NT4 picolinic acid  
   NT3 piperidines  
     NT4 dipyridamole  
     NT4 pethidine  
     NT4 triacetoneamine-n-oxyl  
   NT3 pyridine  
   NT3 pyridinium compounds  
   NT3 pyridoxal  
   NT3 pyridoxine  
   NT3 pyridoxylidene-glutamate  
   NT3 pyridylazonaphthol  
   NT3 pyridylazoresorcinol  
   NT3 quinolines  
   NT4 ferron  
   NT4 oxine  
   NT4 quinaldine  
 NT2 pyrimidines  
   NT3 alloxan  
   NT3 barbiturates  
     NT4 nembutal  
     NT4 phenobarbital  
   NT3 cytidine  
   NT3 cytosine  
   NT3 deoxycytidine  
   NT3 thiamine  
   NT3 thymidine  
   NT3 uracils  
     NT4 bromouracils  
     NT5 budr  
     NT4 chlorouracils  
     NT4 deoxyuridine  
     NT4 fluorouracils  
     NT5 fudr  
     NT4 iodouracils  
     NT5 iododeoxyuridine  
     NT4 orotic acid  
     NT4 thiouracil  
     NT4 thymine  
     NT4 uridine  
   NT2 triazines  
     NT3 cyanurates  
     NT3 melamine  
 NT1 azo compounds  
   NT2 arsenazo  
   NT2 azo dyes  
     NT3 eriochrome dyes  
     NT3 evans blue  
     NT3 methyl orange  
     NT3 methyl red  
     NT3 toluidine blue  
     NT3 trypan blue  
 NT1 azoles  
   NT2 carbazoles  
   NT2 imidazoles  
     NT3 allantoin  
     NT3 benzimidazoles  
     NT3 biotin  
     NT3 creatinine  
     NT3 histamine  
     NT3 histidine  
     NT3 hydantoins  
     NT3 metronidazole  
     NT3 misonidazole  
     NT3 urocanic acid  
   NT2 oxadiazoles  
   NT2 oxazoles  
     NT3 benzoxazoles  
     NT3 popop  
   NT2 pyrazoles  
     NT3 indazoles  
     NT3 pyrazolines  
     NT4 antipyrine  
   NT2 pyrroles  
     NT3 bilirubin  
     NT3 indoles  
     NT4 indigo  
     NT4 indocyanine green  
     NT4 lysergic acid  
     NT4 reserpine  
     NT4 strychnine  
     NT4 tryptamines  
     NT5 melatonin  
     NT5 serotonin  
     NT6 bufotenine  
     NT4 tryptophan  
     NT4 vinblastine  
   NT3 pyrrolidines  
     NT4 hydroxyproline  
     NT4 nicotine  
     NT4 proline  
   NT3 pyrrolidones  
   NT4 pvp  
   NT2 tetrazoles  
   NT3 tetrazolium  
   NT2 thiadiazoles  
   NT2 thiazoles  
     NT3 benzothiazoles  
     NT3 saccharin  
     NT3 thiamine  
   NT2 triazoles  
 NT1 carbamates  
   NT2 dedtc  
   NT2 urethane  
 NT1 carbazides  
 NT1 carbazones  
   NT2 dithizone  
 NT1 cyanamides  
 NT1 diazo compounds  
   NT2 pyridylazonaphthol  
   NT2 pyridylazoresorcinol  
   NT2 thorin  
 NT1 dpca  
 NT1 gangliosides  
 NT1 guanidines  
   NT2 mibg  
 NT1 hydrazides  
   NT2 isoniazid  
 NT1 hydrazones  
 NT1 imides  
   NT2 nem  
 NT1 imines  
   NT2 creatinine  
   NT2 schiff bases  
 NT1 imipramine  
 NT1 isoalloxazines  
   NT2 diaphorase  
 NT1 melanin  
 NT1 morpholines  
 NT1 nitriles  
   NT2 acetonitrile  
   NT2 acrylonitrile  
   NT2 propiolonitrile  
   NT2 ttf-tcnq  
 NT1 nitro compounds  
   NT2 dinitrophenol  
   NT2 dpbh  
   NT2 metronidazole  
   NT2 misonidazole  
   NT2 nitrobenzene  
   NT2 nitromethane  
   NT2 nitrophenol  
   NT2 picric acid  
   NT2 polycyclic nitro compounds  
   NT2 tetryl  
   NT2 tnt  
 NT1 nitroso compounds  
   NT2 1-nitroso-2-naphthol  
   NT2 methyl nitroso-urea  
   NT2 nitrosamines  
   NT2 nitroso-r salt  
   NT2 nitroso-ureas  
 NT1 oximes  
   NT2 benzoinoxime  
   NT2 dimethylglyoxime  
 NT1 parathion  
 NT1 porphyrins  
   NT2 chlorins  
   NT2 chlorophyll  
   NT2 hematoporphyrins  
   NT2 heme  
   NT2 hemoglobin  
     NT3 methemoglobin  
   NT2 hemosiderin  
   NT2 myoglobin  
   NT2 protoporphyrins  
 NT1 semicarbazides  
 NT1 semicarbazones  
 NT1 tamoxifen  
 NT1 thionine  
 RT diazotization

*RT* nitrogen compounds  
*RT* squarylium dyes

**ORGANIC OXYGEN COMPOUNDS**

1996-07-18

*Excluding those concepts included under the descriptors: HYDROXY COMPOUNDS, CARBONIC ACID DERIVATIVES, LIPIDS, ORGANIC ACIDS, ALDEHYDES, KETONES, and ESTERS.*

*UF* murexide*UF* parabanic acid*UF* purpuric acid*UF* tmpn

BT1 organic compounds

NT1 allantoin

NT1 alloxan

NT1 barbiturates

NT2 nembutal

NT2 phenobarbital

NT1 benzoyl peroxide

NT1 cyanurates

NT1 cytosine

NT1 dioxane

NT1 dioxin

NT1 epoxides

NT2 araldite

NT1 ethers

NT2 acetals

NT3 acetal

NT2 anisole

NT2 butyl ether

NT2 cellosolves

NT2 crown ethers

NT2 curcumin

NT2 dme

NT2 ethyl ether

NT2 isopropyl ether

NT2 methyl ether

NT2 methylal

NT2 mexamine

NT2 morpholines

NT2 phenyl ether

NT1 flavonoids

NT2 flavones

NT3 morin

NT3 quercetin

NT1 furans

NT2 benzofurans

NT2 furfural

NT2 tetrahydrofuran

NT3 mthf

NT1 heterocyclic oxygen compounds

NT2 pyrans

NT3 coumarin

NT3 hematoxylin

NT3 pyrones

NT3 quercetin

NT3 tetrahydropyran

NT1 isoalloxazines

NT2 diaphorase

NT1 ketenes

NT1 malathion

NT1 oxadiazoles

NT1 oxazoles

NT2 benzoxazoles

NT2 popop

NT1 psoralen

NT1 pyridoxal

NT1 quinones

NT2 anthraquinones

NT3 alizarin

NT3 carminic acid

NT3 quinizarin

NT2 benzoquinones

NT3 chloranil

NT3 chloranilic acid

NT3 plastoquinone

NT3 ubiquinone

NT2 rhodizonic acid

NT2 vitamin k

NT1 rhodamines

NT1 saccharin

NT1 semicarbazides

NT1 triacetoneamine-n-oxyl

NT1 trioxanes

NT1 xanthines

NT2 caffeine

NT2 theobromine

NT2 theophylline

NT2 uric acid

*RT* oxygen compounds**ORGANIC PHOSPHORUS COMPOUNDS**

*Excluding those concepts covered by NUCLEIC ACIDS and NUCLEOTIDES.*

*UF* diphenylphosphine oxide*UF* dpo

BT1 organic compounds

NT1 casein

NT1 cmpo

NT1 cystaphos

NT1 malathion

NT1 parathion

NT1 phosphinic acid esters

NT1 phosphinic acids

NT1 phosphocreatine

NT1 phospholipids

NT2 cardiolipin

NT2 lecithins

NT2 sphingomyelins

NT1 phosphonates

NT1 phosphonic acid esters

NT2 dampa

NT2 dhdecmp

NT1 phosphonic acids

NT1 phosphoric acid esters

NT2 butyl phosphates

NT3 dbp

NT3 mbp

NT3 tbp

NT2 hdehp

NT2 mdpa

NT2 phytic acid

NT2 tcp

NT1 tributylphosphine oxide

NT1 trioctylphosphine oxide

NT1 trioctylphosphine sulfide

NT1 triphenylphosphine oxide

NT1 uridine diphosphoglucose

*RT* phosphine oxides*RT* phosphines*RT* phosphorus compounds*RT* thiophosphoric acid esters**ORGANIC POLYMERS***UF* poly(isobutylene oxide)*UF* polyacrylonitrile*UF* polytetraoxane

BT1 organic compounds

BT1 polymers

NT1 araldite

NT1 copolymers

NT1 graft polymers

NT1 neoprene

NT1 plastic foams

NT1 plastics

NT2 aramids

NT2 bakelite

NT2 formvar

NT2 lucite

NT2 mylar

NT2 nylon

NT2 perspex

NT2 plexiglas

NT2 polystyrene

NT2 polyurethanes

NT3 halthane

NT2 reinforced plastics

NT2 tedlar

NT2 teflon

NT2 thermoplastics

NT1 polyacetals

NT2 formvar

NT2 polyoxymethylenes

NT1 polyacetylenes

NT1 polyamides

NT2 nylon

NT2 polyurethanes

NT3 halthane

NT1 polycarbonates

NT1 polyesters

NT2 dacron

NT2 homalite

NT2 mylar

NT1 polyethylene glycols

NT2 carbowax

NT2 pluronics

NT1 polyisoprene

NT1 polyolefins

NT2 polyethylenes

NT3 kel-f

NT3 polytetrafluoroethylene

NT4 teflon

NT2 polypropylene

NT2 polystyrene

NT2 polystyrene-dvb

NT1 polyvinyls

NT2 polyacrylates

NT3 lucite

NT3 perspex

NT3 plexiglas

NT3 pmma

NT2 polystyrene

NT2 polyvinyl acetate

NT2 pva

NT2 pvc

NT2 pvp

NT2 tedlar

NT1 resins

NT1 rubbers

NT2 buna

NT2 latex

NT2 natural rubber

NT2 silastic

NT2 viton

NT1 textolite

*RT* acrylonitrile*RT* benzofurans*RT* butadiene*RT* concrete-plastic composites*RT* fiberglass*RT* melamine*RT* plasticizers*RT* polyphenyls*RT* wood-plastic composites*RT* xenobiotics**ORGANIC SEMICONDUCTORS**

1992-05-29

\*BT1 semiconductor materials

*RT* organic compounds*RT* organic solar cells*RT* organic superconductors**ORGANIC SILICON COMPOUNDS**

INIS: 1986-07-09; ETDE: 1984-05-09

*UF* silicic acid esters

BT1 organic compounds

NT1 silanes

NT1 siloxanes

NT2 silicones

NT3 silastic

*RT* silicon compounds**ORGANIC SOLAR CELLS**

INIS: 1997-06-19; ETDE: 1979-05-02

\*BT1 solar cells

RT dyes  
 RT organic semiconductors  
 RT photovoltaic conversion  
 RT pis solar cells  
 RT ps solar cells

**ORGANIC SOLVENTS**

1996-10-22

(AMSCO and CARBITOLS have been valid  
 ETDE descriptors.)

UF *amsco*  
 UF *carbitols*  
 UF *diglycol monoalkyl ethers*  
 \*BT1 nonaqueous solvents  
 NT1 celloses  
 NT1 solvesso  
 NT1 turpentine  
 RT butyl ether  
 RT carbon tetrachloride  
 RT chloroform  
 RT dhdecmp  
 RT dme  
 RT ethyl ether  
 RT isopropyl ether  
 RT methyl ether  
 RT solutions  
 RT trioxanes

**ORGANIC SULFUR COMPOUNDS**

1996-10-23

UF *ethyrene*  
 UF *ethyreneethyl phosphinate*  
 UF *pentothal*  
 UF *sulfenic acids*  
 UF *thio compounds*  
 UF *thioethers*  
 UF *thiopental*  
 UF *thiophosgene*  
 BT1 organic compounds  
 NT1 bedt-ttf  
 NT1 biotin  
 NT1 cystamine  
 NT1 dedtc  
 NT1 dimethyl sulfide  
 NT1 disulfides  
 NT2 cystine  
 NT2 thioctic acid  
 NT1 dithizone  
 NT1 ethionine  
 NT1 heparin  
 NT1 isothiocyanates  
 NT1 methionine  
 NT1 phenothiazines  
 NT2 chlorpromazine  
 NT2 methylene blue  
 NT1 polycyclic sulfur heterocycles  
 NT1 sulfenamides  
 NT1 sulfonamides  
 NT1 sulfonates  
 NT2 indocyanine green  
 NT2 petroleum sulfonates  
 NT1 sulfones  
 NT1 sulfonic acid esters  
 NT2 alkyl benzenesulfonates  
 NT2 ethyl methanesulfonate  
 NT2 methyl methanesulfonate  
 NT2 petroleum sulfonates  
 NT1 sulfonic acids  
 NT2 arsenazo  
 NT2 bromosulfophthalein  
 NT2 chromotropic acid  
 NT2 eriochrome dyes  
 NT2 evans blue  
 NT2 ferron  
 NT2 methyl orange  
 NT2 nitroso-r salt  
 NT2 sulfanilic acid  
 NT2 taurine  
 NT2 thorin  
 NT2 tiron

NT2 trypan blue  
 NT2 unithiol  
 NT1 sulfoxides  
 NT2 dmsol  
 NT2 dpso  
 NT1 sulfuric acid esters  
 NT1 tetrathiafulvalene  
 NT1 thiadiazoles  
 NT1 thiazoles  
 NT2 benzothiazoles  
 NT2 saccharin  
 NT2 thiamine  
 NT1 thiocyanates  
 NT2 ammonium thiocyanates  
 NT1 thioic acids  
 NT1 thiols  
 NT2 cysteamine  
 NT2 cysteine  
 NT2 dithiols  
 NT3 dimercaprol  
 NT3 unithiol  
 NT2 malathion  
 NT2 mercaptoethylguanidine  
 NT2 mercaptopurine  
 NT2 mpg  
 NT2 penicillamine  
 NT2 thionalide  
 NT2 thiouracil  
 NT1 thionaphthenes  
 NT1 thionates  
 NT1 thionine  
 NT1 thionyl chlorides  
 NT1 thiophene  
 NT1 thiophenols  
 NT1 thioureas  
 NT2 beta-aminoethyl isothiouraea  
 NT2 thiourea  
 NT1 trioctylphosphine sulfide  
 NT1 tta  
 NT1 ttf-tenq  
 NT1 xanthates  
 NT2 viscose  
 RT sulfur compounds  
 RT thiophosphoric acid esters

**ORGANIC SUPERCONDUCTORS**

INIS: 2000-05-02; ETDE: 1991-02-22

BT1 superconductors  
 NT1 bedt-ttf  
 NT1 tmstf  
 NT1 ttf-tenq  
 RT organic compounds  
 RT organic semiconductors

**ORGANIC WASTES**

INIS: 1991-12-11; ETDE: 1975-09-11

BT1 wastes  
 NT1 agricultural wastes  
 NT2 bagasse  
 NT2 manures  
 NT1 compost  
 NT1 stillage  
 NT1 wood wastes  
 RT biological wastes  
 RT industrial wastes  
 RT liquid wastes  
 RT sewage  
 RT solid wastes

**organizacion latinoamericana de energia**

2006-10-11

USE olade

**organization economic co-operation and development**

1993-11-09

USE oecd

**organization of american states**

INIS: 2000-04-12; ETDE: 1978-03-03

USE international organizations

**ORGANIZATIONAL MODELS**

INIS: 1975-11-07; ETDE: 1975-12-16

UF *models (organizational)*  
 RT management  
 RT organizing  
 RT planning

**ORGANIZING**

RT organizational models  
 RT planning  
 RT schedules

**organoids**

1994-08-22

(Until August 1994 this was a valid  
 descriptor.)

USE golgi complexes

**ORGANOLEPTIC PROPERTIES**

NT1 color  
 NT1 flavor  
 NT1 odor  
 RT food  
 RT preservation  
 RT sense organs

**ORGANOMETALLIC COMPOUNDS**

*For compounds of metals and semimetals with  
 organic compounds, but only when the metal  
 or semimetal is directly bound to carbon.*

BT1 organic compounds  
 NT1 grignard reagents  
 NT1 lactoferin  
 NT1 tetraethyl lead

**organophosphinic acids**

1992-01-10

(Prior to January 1992, this was a valid ETDE  
 descriptor.)

USE phosphinic acids

**ORGANS**

1996-04-30

BT1 body  
 NT1 blood vessels  
 NT2 arteries  
 NT3 aorta  
 NT3 carotid arteries  
 NT3 cerebral arteries  
 NT3 coronaries  
 NT2 capillaries  
 NT2 veins  
 NT3 portal system  
 NT1 bone marrow  
 NT1 brain  
 NT2 cerebellum  
 NT2 cerebrum  
 NT3 cerebral cortex  
 NT2 hippocampus  
 NT2 hypothalamus  
 NT2 olfactory bulbs  
 NT2 thalamus  
 NT1 critical organs  
 NT1 diaphragm  
 NT1 esophagus  
 NT1 female genitals  
 NT2 ovaries  
 NT2 uterus  
 NT1 glands  
 NT2 endocrine glands  
 NT3 adrenal glands  
 NT3 pancreas  
 NT3 parathyroid glands  
 NT3 pituitary gland  
 NT3 thyroid  
 NT2 liver  
 NT2 mammary glands

**NT2** pineal gland  
**NT2** prostate  
**NT2** salivary glands  
**NT1** heart  
**NT2** myocardium  
**NT2** pericardium  
**NT1** intestines  
**NT2** large intestine  
**NT3** rectum  
**NT2** small intestine  
**NT1** kidneys  
**NT2** glomeruli  
**NT2** tubules  
**NT1** lungs  
**NT1** male genitals  
**NT2** prostate  
**NT2** testes  
**NT1** perfused organs  
**NT1** pharynx  
**NT1** sense organs  
**NT2** auditory organs  
**NT2** eyes  
**NT3** conjunctiva  
**NT3** cornea  
**NT3** crystalline lens  
**NT3** lacrimal ducts  
**NT3** retina  
**NT3** uvea  
**NT2** taste buds  
**NT2** vestibular apparatus  
**NT1** skeleton  
**NT2** bone joints  
**NT2** exoskeleton  
**NT2** femur  
**NT2** skull  
**NT3** jaw  
**NT2** tibia  
**NT2** vertebrae  
**NT1** skin  
**NT2** epidermis  
**NT2** hair  
**NT2** hair follicles  
**NT2** nails  
**NT1** spleen  
**NT1** stomach  
**NT1** thymus  
**NT1** tongue  
**NT1** urinary tract  
**NT2** bladder  
**NT2** ureters  
*RT* animal tissues  
*RT* artificial organs  
*RT* biological regeneration  
*RT* biology  
*RT* blood flow  
*RT* cardiovascular system  
*RT* digestive system  
*RT* homogenates  
*RT* in vivo  
*RT* lymphatic system  
*RT* morphogenesis  
*RT* nervous system  
*RT* respiratory system  
*RT* retention

**ORGDP**

*UF* *k-25 plant*  
*UF* *oak ridge gaseous diffusion plant*  
**\*BT1** gaseous diffusion plants  
**\*BT1** us doe  
**\*BT1** us erda  
*RT* gaseous diffusion process  
*RT* oak ridge  
*RT* oak ridge reservation  
*RT* tennessee

**orgel reactor**

USE essor reactor

**ORIENTAL AMERICANS**

*INIS: 2000-04-12; ETDE: 1982-01-21*

*UF* *american groups*

**\*BT1** minority groups

*RT* sociology

**ORIENTATION**

(From December 1975 till February 1997

AZIMUTH was a valid ETDE descriptor.)

*UF* *attitude control*

*SF* *azimuth*

**NT1** grain orientation

**NT1** spin orientation

*RT* anisotropy

*RT* asymmetry

*RT* configuration

*RT* incidence angle

*RT* isotropy

*RT* symmetry

*RT* tilt mechanisms

**orientation (grain)**

2000-04-12

USE grain orientation

**ORIENTED NUCLEI**

*UF* *polarized nuclei*

**BT1** nuclei

*RT* nuclear alignment

*RT* polarization

**ORIFICES**

**BT1** openings

*RT* apertures

*RT* flowmeters

*RT* nozzles

*RT* pipe fittings

**ORIGIN**

*UF* *earthquake foci*

*UF* *genesis*

*RT* catagenesis

*RT* cosmology

*RT* diagenesis

*RT* nucleosynthesis

*RT* orogenesis

*RT* petrogenesis

*RT* protostars

*RT* star evolution

*RT* white holes

**ORINS**

*INIS: 2000-04-12; ETDE: 1984-12-26*

*UF* *oak ridge institute of nuclear studies*

**\*BT1** us organizations

**orion computers**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

USE computers

**ORMAK DEVICES**

**\*BT1** tokamak devices

**ORNAMENTAL PLANTS**

**BT1** plants

*RT* aesthetics

**ORNITHINE**

*UF* *2,5-diaminovaleric acid*

**\*BT1** amino acids

**ORNL**

*UF* *oak ridge national laboratory*

**\*BT1** us aec

**\*BT1** us doe

**\*BT1** us erda

*RT* oak ridge

*RT* oak ridge reservation

*RT* tennessee

**ORNL ISOCHRONOUS****CYCLOTRON**

**\*BT1** isochronous cyclotrons

*RT* hhirf accelerator

**ORNL-PCA REACTOR**

*ORNL, Oak Ridge, Tennessee, USA. Shut down in 1991.*

*UF* *pca-ornl reactor*

*UF* *pool critical assembly ornl*

**\*BT1** zero power reactors

**ornl research reactor**

USE orr reactor

**ornl x-10 area graphite reactor**

USE x-10 reactor

**OROGENESIS**

*The process of mountain making, especially by folding of the earth's crust.*

*RT* mountains

*RT* origin

*RT* petrogenesis

*RT* rocks

**OROTIC ACID**

*UF* *6-carboxyuracil*

*UF* *uracil-6-carboxylic acid*

**\*BT1** heterocyclic acids

**\*BT1** uracils

**ORPHEE REACTOR**

1979-11-02

*High flux reactor at Saclay Nuclear Research Centre, Gif-sur-Yvette, France.*

**\*BT1** research reactors

**\*BT1** tank type reactors

**\*BT1** test reactors

**\*BT1** water cooled reactors

**ORR REACTOR**

*ORNL, Oak Ridge, Tennessee, USA. Shut down in 1987.*

*UF* *oak ridge research reactor*

*UF* *ornl research reactor*

**\*BT1** enriched uranium reactors

**\*BT1** tank type reactors

**\*BT1** water cooled reactors

**\*BT1** water moderated reactors

**orsat apparatus**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

SEE gas analysis

**orsay alice cyclotron**

USE alice cyclotron

**ORSAY CYCLOTRON**

**\*BT1** isochronous cyclotrons

**ORSAY LINAC**

**\*BT1** linear accelerators

**ORSAY STORAGE RINGS**

2005-01-25

(Prior to January 2005 ACO was used for this concept.)

*UF* *aco (anneau de collisions d'orsay)*

*UF* *anneau de collisions d'orsay*

**BT1** storage rings

**ORSAY SYNCHROCYCLOTRON**

*INIS: 1984-10-23; ETDE: 1990-11-20*

**\*BT1** synchrocyclotrons

**ORSAY TANDEM ACCELERATOR**

*INIS: 1977-01-25; ETDE: 1977-04-13*

**\*BT1** tandem electrostatic accelerators

**\*BT1** van de graaff accelerators

**orthicons**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE camera tubes

**orthite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE allanite

**ORTHOCLASE**

INIS: 2000-04-12; ETDE: 1983-06-20

*A white to pale yellow, red, or transparent mineral of the feldspar group, monoclinic in form.*

\*BT1 feldspars

RT aluminium silicates

**orthogonal pinch devices (linear)**

USE linear theta pinch devices

**ORTHOGONAL****TRANSFORMATIONS**

BT1 transformations

NT1 moshinsky transformation

**orthoiodohippurate**

INIS: 1975-10-23; ETDE: 2002-04-17

USE hippuran

**ORTHONOL**

2000-04-12

\*BT1 iron alloys

\*BT1 nickel alloys

**ORTHOPTERA**

INIS: 1993-07-15; ETDE: 1981-06-16

\*BT1 insects

NT1 grasshoppers

NT2 locusts

**ORTHORHOMBIC LATTICES**

\*BT1 crystal lattices

**oryza**

USE rice

**OSAMU UTSUMI MINE**

INIS: 1993-02-09; ETDE: 1992-11-20

\*BT1 uranium mines

RT brazil

**OSCILLATION MODES**

UF modes (oscillation)

UF vibration modes

NT1 bernstein mode

NT1 optical modes

NT1 single-particle modes

RT harmonics

RT lattice vibrations

RT mode control

RT mode conversion

RT mode selection

RT oscillations

RT plasma waves

**oscillation techniques (pile)**

USE pile oscillation techniques

**OSCILLATIONS**

(From February 1976 till March 1997

pendulums was a valid ETDE descriptor.)

SF pendulums

NT1 betatron oscillations

NT1 harmonics

NT2 cyclotron harmonics

NT1 phase oscillations

NT1 sawtooth oscillations

NT1 synchrotron oscillations

RT amplitudes

RT disturbances

RT mechanical vibrations

RT nyquist diagrams

RT oscillation modes

RT periodicity

RT pulsations

RT samarium oscillations

RT variations

RT xenon oscillations

**oscillations (plasma)**

USE plasma waves

**OSCILLATOR STRENGTHS**

RT einstein coefficients

RT energy-level transitions

RT optical depth curve

RT spectroscopic curve of growth

RT strength functions

**OSCILLATORS**

\*BT1 electronic equipment

NT1 blocking oscillators

NT1 parametric oscillators

NT1 transistor oscillators

RT electronic circuits

RT pulse techniques

RT reactor oscillators

RT resonators

RT semiconductor devices

**oscillators (reactor)**

USE reactor oscillators

**OSCILLOGRAPHS**

\*BT1 electronic equipment

RT cathode ray tubes

**OSEEN METHOD**

BT1 calculation methods

RT fluid flow

**osha**

INIS: 2000-04-12; ETDE: 1978-06-14

USE us osha

**oshima oi-1 reactor**

USE oi-1 reactor

**oshima oi-2 reactor**

USE oi-2 reactor

**OSIRIS REACTOR**

CEA/CEN de Saclay, Gif-sur-Yvette, France.

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**oskarshamn-1 reactor**

USE okg-1 reactor

**oskarshamn-2 reactor**

USE okg-2 reactor

**oskarshamn-3 reactor**

USE okg-3 reactor

**oskarshamn-4 reactor**

USE okg-4 reactor

**OSLO CYCLOTRON**

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 isochronous cyclotrons

**OSMIUM**

\*BT1 platinum metals

\*BT1 refractory metals

**OSMIUM 162**

INIS: 1989-07-19; ETDE: 1989-08-01

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 osmium isotopes

**OSMIUM 163**

INIS: 1986-05-08; ETDE: 1986-07-03

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 osmium isotopes

**OSMIUM 164**

INIS: 1986-05-08; ETDE: 1986-07-03

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 osmium isotopes

**OSMIUM 165**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 osmium isotopes

**OSMIUM 166**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 osmium isotopes

**OSMIUM 167**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 osmium isotopes

**OSMIUM 168**

INIS: 1978-02-23; ETDE: 1979-04-12

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 osmium isotopes

\*BT1 seconds living radioisotopes

**OSMIUM 169**

INIS: 1982-08-27; ETDE: 1979-09-26

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 osmium isotopes

\*BT1 seconds living radioisotopes

**OSMIUM 170**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 osmium isotopes

\*BT1 seconds living radioisotopes

**OSMIUM 171**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 osmium isotopes

\*BT1 seconds living radioisotopes

**OSMIUM 172**

\*BT1 alpha decay radioisotopes



- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 173**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 174**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 175**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 176**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 177**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 178**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 179**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 180**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 181**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 182**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 183**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 osmium isotopes

**OSMIUM 184**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes
- \*BT1 stable isotopes

**OSMIUM 184 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**OSMIUM 185**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes

**OSMIUM 186**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes
- \*BT1 stable isotopes
- \*BT1 years living radioisotopes

**OSMIUM 186 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**OSMIUM 187**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes
- \*BT1 stable isotopes

**OSMIUM 187 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**OSMIUM 188**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes
- \*BT1 stable isotopes

**OSMIUM 188 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**OSMIUM 189**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 osmium isotopes
- \*BT1 stable isotopes

**OSMIUM 189 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**OSMIUM 190**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei

- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes
- \*BT1 stable isotopes

**OSMIUM 190 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**OSMIUM 191**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 osmium isotopes

**OSMIUM 191 TARGET**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
BT1 targets

**OSMIUM 192**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes

**OSMIUM 192 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**OSMIUM 193**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes

**OSMIUM 193 TARGET**

*INIS: 1992-09-23; ETDE: 1982-03-29*  
BT1 targets

**OSMIUM 194**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 osmium isotopes
- \*BT1 years living radioisotopes

**OSMIUM 195**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 196**

*INIS: 1977-01-26; ETDE: 1976-10-13*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 osmium isotopes

**OSMIUM 197**

*2006-10-13*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 osmium isotopes

**OSMIUM 199**

*2007-11-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei

- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM ADDITIONS**

*Alloys containing not more than 1% Os are listed here.*

- \*BT1 osmium alloys

**OSMIUM ALLOYS**

*Alloys containing more than 1% Os.*

- \*BT1 platinum metal alloys
- NT1 osmium additions
- NT1 osmium base alloys

**OSMIUM BASE ALLOYS**

- \*BT1 osmium alloys

**OSMIUM BORIDES**

*INIS: 1976-02-05; ETDE: 1975-12-16*

- \*BT1 borides
- \*BT1 osmium compounds

**OSMIUM CARBIDES**

*INIS: 1991-09-16; ETDE: 1976-01-23*

- \*BT1 carbides
- \*BT1 osmium compounds

**OSMIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 osmium compounds

**OSMIUM COMPLEXES**

- \*BT1 transition element complexes

**OSMIUM COMPOUNDS**

*1997-06-18*

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 osmium borides
- NT1 osmium carbides
- NT1 osmium chlorides
- NT1 osmium fluorides
- NT1 osmium oxides
- NT1 osmium phosphides
- NT1 osmium sulfates
- NT1 osmium sulfides

**OSMIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 osmium compounds

**OSMIUM IONS**

- \*BT1 ions

**OSMIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 osmium 162
- NT1 osmium 163
- NT1 osmium 164
- NT1 osmium 165
- NT1 osmium 166
- NT1 osmium 167
- NT1 osmium 168
- NT1 osmium 169
- NT1 osmium 170
- NT1 osmium 171
- NT1 osmium 172
- NT1 osmium 173
- NT1 osmium 174
- NT1 osmium 175
- NT1 osmium 176
- NT1 osmium 177
- NT1 osmium 178
- NT1 osmium 179
- NT1 osmium 180
- NT1 osmium 181
- NT1 osmium 182
- NT1 osmium 183
- NT1 osmium 184
- NT1 osmium 185
- NT1 osmium 186
- NT1 osmium 187

- NT1 osmium 188
- NT1 osmium 189
- NT1 osmium 190
- NT1 osmium 191
- NT1 osmium 192
- NT1 osmium 193
- NT1 osmium 194
- NT1 osmium 195
- NT1 osmium 196
- NT1 osmium 197
- NT1 osmium 199

**OSMIUM OXIDES**

- \*BT1 osmium compounds
- \*BT1 oxides

**OSMIUM PHOSPHIDES**

*INIS: 2000-04-12; ETDE: 1984-06-14*

- \*BT1 osmium compounds
- \*BT1 phosphides

**OSMIUM SULFATES**

*INIS: 1996-07-08; ETDE: 1977-04-12*

(From June 1996 to November 2007

OSMIUM COMPOUNDS + SULFATES was used for this concept.)

- \*BT1 osmium compounds
- \*BT1 sulfates

**OSMIUM SULFIDES**

*INIS: 2000-04-12; ETDE: 1977-03-04*

- \*BT1 osmium compounds
- \*BT1 sulfides

**OSMOSIS**

- UF* reverse osmosis
- BT1 diffusion
- RT* advection
- RT* donnan theory
- RT* hypertonic solutions
- RT* isotonic solutions
- RT* mass transfer
- RT* membrane transport
- RT* membranes
- RT* molecular weight
- RT* permeability

**osmotic power plants**

*INIS: 2000-04-12; ETDE: 1977-09-19*

- USE salinity gradient power plants

**osteitis (radioinduced)**

- USE osteoradionecrosis

**osteoblasts**

- USE connective tissue cells

**osteocytes**

- USE bone cells

**OSTEODENSITOMETRY**

- \*BT1 biomedical radiography
- RT* bone tissues
- RT* osteoporosis
- RT* scintiscanning

**OSTEOMYELITIS**

- \*BT1 skeletal diseases
- RT* bone tissues

**OSTEOPOROSIS**

- \*BT1 skeletal diseases
- RT* bone tissues
- RT* osteodensitometry

**OSTEORADIONECROSIS**

- UF* osteitis (radioinduced)
- \*BT1 local radiation effects
- \*BT1 necrosis
- \*BT1 radiation injuries
- \*BT1 skeletal diseases
- RT* bone tissues

**OSTEOSARCOMAS**

- \*BT1 sarcomas
- \*BT1 skeletal diseases
- RT* bone tissues

**OSTR REACTOR**

*Oregon State Univ., Corvallis, Oregon, USA.*

- UF* oregon state triga reactor
- \*BT1 isotope production reactors
- \*BT1 pulsed reactors
- \*BT1 training reactors
- \*BT1 triga type reactors

**OSUR REACTOR**

*Ohio State Univ., Columbus, Ohio, USA.*

- UF* ohio state university reactor
- \*BT1 pool type reactors
- \*BT1 training reactors

**oswego nuclear power plant**

- USE nine mile point-2 reactor

**OTAKE GEOTHERMAL FIELD**

*2000-04-12*

- BT1 geothermal fields
- RT* geothermal hot-water systems
- RT* japan

**otec**

*INIS: 1991-12-11; ETDE: 1981-01-27*

- USE ocean thermal energy conversion

**otec foam-lift cycle**

*INIS: 2000-04-12; ETDE: 1980-08-12*

- USE lift cycles

**otec lift cycles**

*INIS: 2000-04-12; ETDE: 1980-08-12*

- USE lift cycles

**otec mist-lift cycle**

*INIS: 2000-04-12; ETDE: 1980-08-12*

- USE mist-lift cycles

**OTHER ORGANIC COMPOUNDS**

*For organic materials, usually naturally occurring, composed of undetermined or mixed organic compounds.*

- BT1 organic compounds
- NT1 amber
- NT1 asphaltite
- NT1 oils
- NT2 coal tar oils
- NT2 essential oils
- NT2 fish oil
- NT2 insulating oils
- NT2 lipiodol
- NT2 lubricating oils
- NT2 pyrolytic oils
- NT2 road oils
- NT2 shale tar oils
- NT2 tall oil
- NT2 triolein
- NT2 vegetable oils
- NT3 castor oil
- NT3 corn oil
- NT3 cottonseed oil
- NT3 linseed oil
- NT3 olive oil
- NT3 palm oil
- NT3 peanut oil
- NT3 sesame oil
- NT3 soybean oil
- NT3 sunflower oil
- NT2 waste oils
- NT2 wood oils
- NT1 pitches
- NT1 soaps
- NT1 tar
- NT2 bitumens
- NT3 asphalts

- NT3 coal tar
- NT3 thucholite
- NT2 shale tar
- NT1 waxes
- NT2 carbowax
- NT2 paraffin

**OTISCA PROCESS**

INIS: 2000-04-12; ETDE: 1981-06-13  
Heavy media separation process using chlorofluoromethanes.

- \*BT1 heavy media separation

**OTTAWA RIVER**

- \*BT1 rivers
- RT ontario
- RT quebec

**ottawa slowpoke reactor**

INIS: 1984-06-21; ETDE: 2002-04-17  
USE slowpoke-ottawa reactor

**OTTERS**

INIS: 1993-05-04; ETDE: 1984-05-08  
\*BT1 mammals  
RT aquatic ecosystems  
RT aquatic organisms

**OTTO CYCLE**

2000-04-12  
BT1 thermodynamic cycles

**otto hahn (nuclear ship)**

USE ns otto hahn

**OTTO HAHN REACTOR**

UF fdr reactor  
UF nuclear ship otto hahn reactor  
\*BT1 pwr type reactors  
\*BT1 ship propulsion reactors  
RT ns otto hahn

**OTTO PROCESS**

2000-04-12  
Process for removal of hydrogen sulfide from coal gas.  
\*BT1 desulfurization  
RT sulfur

**OTTO RUMMEL SLAG BATH PROCESS**

INIS: 2000-04-12; ETDE: 1977-05-07  
Slag bath gasification using either steam or oxygen-steam; steam blown system requires a dual shaft, which permits the separation of the combustor function from the gasification function, thereby permitting synthesis gas generation with low nitrogen content.  
\*BT1 coal gasification

**OUABAIN**

- \*BT1 strophanthins

**OUNCE METAL**

2000-04-12  
\*BT1 copper base alloys  
\*BT1 lead alloys  
\*BT1 nickel additions  
\*BT1 tin alloys  
\*BT1 zinc alloys  
RT brass

**OUTAGES**

INIS: 1995-03-27; ETDE: 1979-07-18  
Accidental or planned shutdowns or significant reductions of all or part of an electrical or thermal power system.  
UF blackouts  
UF brownouts  
RT accidents  
RT availability  
RT capacity  
RT failures

- RT maintenance
- RT power losses
- RT power plants
- RT power supplies
- RT power systems
- RT power transmission
- RT reliability
- RT shutdown

**OUTDOORS**

INIS: 2004-05-14; ETDE: 2004-11-02  
Only for documents where this concept is significant. Consider also more specific descriptors such as ARCTIC REGIONS or one indicating the temperature range.  
RT ambient temperature  
RT climates  
RT indoors

**outer continental shelf**

INIS: 2000-04-12; ETDE: 1979-11-23  
USE continental shelf

**outgassing**

USE degassing

**OUTLET STRUCTURES**

INIS: 2000-04-12; ETDE: 1979-05-31  
BT1 mechanical structures

**output**

INIS: 2000-04-12; ETDE: 1980-05-06  
USE production

**OVA**

- \*BT1 gametes
- RT eggs
- RT fertilization
- RT life cycle
- RT oocytes
- RT oogenesis
- RT ovulation

**OVALBUMIN**

- \*BT1 glucoproteins

**OVARIES**

- \*BT1 female genitals
- BT1 gonads
- RT estrogens
- RT oogenesis
- RT ovulation
- RT progesterone

**OVEN COKE**

INIS: 2000-04-12; ETDE: 1979-09-27  
BT1 coke

**OVENS**

INIS: 1999-12-31; ETDE: 1982-08-11  
\*BT1 appliances  
NT1 microwave ovens  
RT electric appliances  
RT gas appliances  
RT stoves  
RT wood burning appliances

**OVERBURDEN**

1990-12-07  
The loose soil, silt, sand, gravel, or other unconsolidated material overlying bedrock, either transported or formed in place.  
SF regolith  
RT dusts  
RT earth mantle  
RT mining  
RT rock mechanics  
RT rocks  
RT soil mechanics

**OVERCURRENT**

1986-04-03  
\*BT1 electric currents

- RT surges
- RT transients

**OVERHAUSER EFFECT**

1980-07-24

- RT electron spin resonance
- RT nuclear magnetic resonance
- RT nuclei
- RT polarization

**OVERHEAD POWER TRANSMISSION**

INIS: 1992-06-04; ETDE: 1976-08-04

- BT1 power transmission
- RT power transmission towers

**overthrust belt**

INIS: 2000-04-12; ETDE: 1982-07-27  
USE western us overthrust belt

**OVERVOLTAGE**

1999-06-30

- RT breakdown
- RT electric potential
- RT electrical transients
- RT surges
- RT transients
- RT var control systems

**OVULATION**

- RT estrous cycle
- RT fertilization
- RT menstrual cycle
- RT ova
- RT ovaries
- RT reproduction

**OWNERSHIP**

INIS: 1978-11-24; ETDE: 1977-07-23  
(From December 1977 until March 1996 MULTINATIONAL OWNERSHIP was a valid ETDE descriptor.)

- UF multinational ownership
- NT1 land ownership
- RT legal aspects
- RT mineral rights
- RT property rights
- RT public enterprises
- RT solar rights

**OWR REACTOR**

Univ. of California, LANL, Los Alamos, New Mexico, USA.

- UF los alamos omega west reactor
- UF omega west reactor
- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**OXADIAZOLES**

Compounds that contain a five-membered heterocyclic ring containing one oxygen and two nitrogen atoms.

- \*BT1 azoles
- \*BT1 organic oxygen compounds

**oxalaldehyde**

USE glyoxal

**OXALATES**

- BT1 carboxylic acid salts
- RT oxalic acid esters

**OXALIC ACID**

- \*BT1 dicarboxylic acids

**OXALIC ACID ESTERS**

- \*BT1 carboxylic acid esters
- RT oxalates

**OXAZOLES**

1996-01-24

Compounds that contain a five-membered heterocyclic ring containing one nitrogen and one oxygen atom.

- \*BT1 azoles
- \*BT1 organic oxygen compounds
- NT1 benzoxazoles
- NT1 popop

**oxetane**

INIS: 2000-04-12; ETDE: 1980-12-08

- USE ethers
- USE heterocyclic oxygen compounds

**oxidants**

INIS: 1983-02-04; ETDE: 1977-01-10

- USE oxidizers

**OXIDASES**

1996-11-13

- \*BT1 oxidoreductases
- NT1 cytochrome oxidase
- NT1 luciferase

**OXIDATION**

UF disproportionation

- BT1 chemical reactions
- NT1 combustion
  - NT2 cocombustion
  - NT2 fluidized-bed combustion
  - NT2 in-situ combustion
  - NT2 oxyfuel combustion process
  - NT2 pulse combustion
  - NT2 reverse combustion
  - NT2 spontaneous combustion
  - NT2 staged combustion
- NT1 roasting
- RT anoxia
- RT antioxidants
- RT bioreactors
- RT corrosion
- RT corrosion products
- RT oxidizers
- RT oxidoreductases
- RT redox potential
- RT redox reactions
- RT reduction
- RT sesame process
- RT sulfation
- RT thiobacillus ferroxidans
- RT thiobacillus oxidans
- RT wet oxidation processes

**oxidation state**

INIS: 2000-04-12; ETDE: 1980-10-27

- USE valence

**OXIDE MINERALS**

INIS: 1996-11-13; ETDE: 1982-05-12

(The UF terms below have been valid ETDE descriptors.)

- UF aeschynite
- UF cerianite
- UF coesite
- UF curite
- UF davidite
- UF demesmaekerite
- UF francevillite
- UF gummite
- UF hatchettolite
- UF iriginite
- UF masuyite
- UF moluranite
- UF strelkinite
- UF umohoite
- UF uranothorianite
- UF wulfenite
- UF zeunerite
- BT1 minerals

- NT1 baddeleyite
- NT1 bastnaesite
- NT1 becquerelite
- NT1 billietite
- NT1 brannerite
- NT1 chrysoberyl
- NT1 clarkeite
- NT1 compreignacite
- NT1 corundum
  - NT2 ruby
  - NT2 sapphire
- NT1 corvusite
- NT1 cristobalite
- NT1 ellsworthite
- NT1 ferghanite
- NT1 ferrite garnets
- NT1 gibbsite
- NT1 goethite
- NT1 guilleminite
- NT1 hallimondite
- NT1 heinrichite
- NT1 hematite
- NT1 hollandite
- NT1 ianthinite
- NT1 ilmenite
- NT1 kahlerite
- NT1 kaolin
- NT1 kirchheimerite
- NT1 limonite
- NT1 lodochinkite
- NT1 lyndochite
- NT1 magnetite
- NT1 marignacite
- NT1 melanovanadite
- NT1 moctezumite
- NT1 mullite
- NT1 naegite
- NT1 nogizawalite
- NT1 nordstrandite
- NT1 novacekite
- NT1 para-schoepite
- NT1 pascoite
- NT1 perovskite
- NT1 quartz
- NT1 rauvite
- NT1 rutile
- NT1 schoepite
- NT1 sengierite
- NT1 silica
  - NT2 opals
- NT1 spinels
- NT1 stishovite
- NT1 tantalite
- NT1 tapiolite
- NT1 thorianite
- NT1 tyuyamunitite
- NT1 uraninites
  - NT2 broeggerite
  - NT2 pitchblende
- NT1 uranium black
- NT1 wolframite
- NT1 zirconolite
- RT aluminium oxides
- RT arsenic oxides
- RT barium oxides
- RT calcium oxides
- RT cerium oxides
- RT cobalt oxides
- RT copper oxides
- RT hafnium oxides
- RT iron oxides
- RT kimberlites
- RT lead oxides
- RT magnesium oxides
- RT manganese oxides
- RT molybdenum oxides
- RT niobium oxides
- RT perovskites
- RT potassium oxides

- RT selenium oxides
- RT shales
- RT silicon oxides
- RT sodium oxides
- RT tantalum oxides
- RT tellurium oxides
- RT thorium oxides
- RT titanium oxides
- RT tungsten oxides
- RT uranium oxides
- RT vanadium oxides
- RT zirconium oxides

**OXIDES**

1997-06-19

- BT1 chalcogenides
- BT1 oxygen compounds
- NT1 actinium oxides
- NT1 aluminium oxides
- NT1 americium oxides
- NT1 antimony oxides
- NT1 argon oxides
- NT1 arsenic oxides
- NT1 barium oxides
- NT1 berkelium oxides
- NT1 beryllium oxides
- NT1 bismuth oxides
- NT1 boron oxides
- NT1 bromine oxides
- NT1 cadmium oxides
- NT1 calcium oxides
- NT1 californium oxides
- NT1 carbon oxides
  - NT2 carbon dioxide
  - NT2 carbon monoxide
- NT1 cerium oxides
- NT1 cesium oxides
- NT1 chlorine oxides
- NT1 chromium oxides
- NT1 cobalt oxides
- NT1 copper oxides
- NT1 curium oxides
- NT1 dysprosium oxides
- NT1 einsteinium oxides
- NT1 erbium oxides
- NT1 europium oxides
- NT1 fermium oxides
- NT1 fluorine oxides
- NT1 gadolinium oxides
- NT1 gallium oxides
- NT1 germanium oxides
- NT1 gold oxides
- NT1 hafnium oxides
- NT1 helium oxides
- NT1 holmium oxides
- NT1 indium oxides
- NT1 iodine oxides
- NT1 iridium oxides
- NT1 iron oxides
- NT1 krypton oxides
- NT1 lanthanum oxides
- NT1 lead oxides
- NT1 lithium oxides
- NT1 lutetium oxides
- NT1 magnesium oxides
- NT1 manganese oxides
- NT1 mendelevium oxides
- NT1 mercury oxides
- NT1 molybdenum oxides
  - NT2 molybdenum blue
- NT1 neodymium oxides
- NT1 neon oxides
- NT1 neptunium oxides
- NT1 nickel oxides
- NT1 niobium oxides
- NT1 nitrogen oxides
  - NT2 nitric oxide
  - NT2 nitrogen dioxide
  - NT2 nitrous oxide

**NT1** nobelium oxides  
**NT1** osmium oxides  
**NT1** palladium oxides  
**NT1** phosphorus oxides  
**NT1** platinum oxides  
**NT1** plutonium oxides  
**NT2** plutonium dioxide  
**NT1** polonium oxides  
**NT1** potassium oxides  
**NT1** praseodymium oxides  
**NT1** promethium oxides  
**NT1** protactinium oxides  
**NT1** radium oxides  
**NT1** radon oxides  
**NT1** rhenium oxides  
**NT1** rhodium oxides  
**NT1** rubidium oxides  
**NT1** ruthenium oxides  
**NT1** samarium oxides  
**NT1** scandium oxides  
**NT1** selenium oxides  
**NT1** silicon oxides  
**NT1** silver oxides  
**NT1** sodium oxides  
**NT2** sodium tungsten bronze  
**NT1** strontium oxides  
**NT1** sulfur oxides  
**NT2** sulfur dioxide  
**NT2** sulfur trioxide  
**NT1** tantalum oxides  
**NT1** technetium oxides  
**NT1** tellurium oxides  
**NT1** terbium oxides  
**NT1** thallium oxides  
**NT1** thorium oxides  
**NT2** thorotrast  
**NT1** thulium oxides  
**NT1** tin oxides  
**NT1** titanium oxides  
**NT1** tritium oxides  
**NT1** tungsten oxides  
**NT2** sodium tungsten bronze  
**NT1** uranium oxides  
**NT2** uranium dioxide  
**NT2** uranium oxides u3o8  
**NT2** uranium trioxide  
**NT1** vanadium oxides  
**NT1** xenon oxides  
**NT1** ytterbium oxides  
**NT1** yttrium oxides  
**NT2** alloy-in-853  
**NT1** zinc oxides  
**NT1** zirconium oxides  
*RT* ceramics  
*RT* corrosion products  
*RT* oxybromides  
*RT* oxycarbides  
*RT* oxychlorides  
*RT* oxyfluorides  
*RT* oxygen additions  
*RT* oxyiodides  
*RT* oxynitrates  
*RT* oxyselenides  
*RT* oxysulfides  
*RT* oxytellurides

**OXIDIZERS**

*INIS: 1983-02-04; ETDE: 1977-01-10*

*UF* oxidants  
*UF* oxidizing agents  
*RT* antioxidants  
*RT* oxidation

**oxidizing agents**

*INIS: 1983-02-04; ETDE: 1977-01-10*

*USE* oxidizers

**OXIDOREDUCTASES**

*1997-06-17*

*Code number 1.*

(DEHYDROGENASES, HAEM DEHYDROGENASES, and NUCLEOTIDE DEHYDROGENASES have been valid descriptors.)

*UF* dehydrogenases  
*UF* haem dehydrogenases  
*UF* nucleotide dehydrogenases  
*UF* reductases  
**\*BT1** enzymes  
**NT1** amine oxidases  
**NT1** aryl 4-monoxygenase  
**NT1** diaphorase  
**NT1** hemiacetal dehydrogenases  
**NT2** alcohol dehydrogenase  
**NT2** lactate dehydrogenase  
**NT1** hydrogenases  
**NT1** hydroxylases  
**NT2** tyrosinase  
**NT1** nitro-group dehydrogenases  
**NT2** nitrogenase  
**NT1** oxidases  
**NT2** cytochrome oxidase  
**NT2** luciferase  
**NT1** oxygenases  
**NT2** mixed-function oxidases  
**NT1** peroxidases  
**NT2** catalase  
**NT1** superoxide dismutase  
*RT* oxidation  
*RT* redox process  
*RT* reduction  
*RT* respiration

**OXIMES**

*1996-10-23*

*UF* furildioxime  
**\*BT1** amines  
**\*BT1** hydroxy compounds  
**\*BT1** organic nitrogen compounds  
**NT1** benzoinoxime  
**NT1** dimethylglyoxime  
*RT* aldehydes  
*RT* hydroxylamine  
*RT* ketones

**OXINE**

*1980-07-24*

*UF* 8-hydroxyquinoline  
*UF* 8-quinolinol  
**\*BT1** hydroxy compounds  
**\*BT1** quinolines

**oxirans**

*USE* epoxides

**oxoacetic acid**

*USE* glyoxylic acid

**oxocarboxylic acids**

*USE* keto acids

**OXONIUM IONS**

*UF* hydronium ions  
**\*BT1** molecular ions  
*RT* hydrogen ions 1 plus  
*RT* radiation chemistry

**oxopropane**

*USE* acetone

**OXY MODIFIED IN-SITU PROCESS**

*INIS: 2000-04-12; ETDE: 1977-03-08*

*Before March 1977 GARRETT PROCESS was used for this process.*

*UF* garrett process  
**BT1** modified in-situ processes  
*RT* oil shales

**OXYBROMIDES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

**\*BT1** bromine compounds  
**\*BT1** oxyhalides  
*RT* bromides  
*RT* bromine oxides  
*RT* oxides

**OXYCARBIDES**

*INIS: 1984-08-23; ETDE: 1976-06-07*

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

**BT1** carbon compounds  
**BT1** oxygen compounds  
*RT* carbides  
*RT* carbon oxides  
*RT* oxides

**OXYCHLORIDES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

**\*BT1** chlorine compounds  
**\*BT1** oxyhalides  
*RT* chlorides  
*RT* chlorine oxides  
*RT* oxides

**OXYFLUORIDES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

**\*BT1** fluorine compounds  
**\*BT1** oxyhalides  
*RT* fluorides  
*RT* fluorine oxides  
*RT* oxides

**OXYFUEL COMBUSTION PROCESS**

*2007-09-07*

*Combustion of a fuel with pure oxygen instead of air.*

**\*BT1** combustion  
*RT* air pollution abatement  
*RT* carbon sequestration  
*RT* combustion control

**OXYGEN**

*UF* dissolved oxygen  
*UF* oxygen effect (radiobiology)  
**\*BT1** nonmetals  
*RT* anoxia  
*RT* biochemical oxygen demand  
*RT* chemical oxygen demand  
*RT* cryogenic fluids  
*RT* ozone

**OXYGEN 12**

**\*BT1** even-even nuclei  
**\*BT1** light nuclei  
**\*BT1** oxygen isotopes

**OXYGEN 13**

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** light nuclei  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** oxygen isotopes

**OXYGEN 14**

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** even-even nuclei  
**\*BT1** light nuclei  
**\*BT1** minutes living radioisotopes

\*BT1 oxygen isotopes

### OXYGEN 14 REACTIONS

1992-02-18

\*BT1 heavy ion reactions

### OXYGEN 14 TARGET

1998-01-27

BT1 targets

### OXYGEN 15

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 minutes living radioisotopes

\*BT1 oxygen isotopes

### OXYGEN 15 TARGET

INIS: 1976-04-03; ETDE: 1976-07-12

BT1 targets

### OXYGEN 16

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 oxygen isotopes

\*BT1 stable isotopes

RT oxygen 16 beams

RT oxygen 16 reactions

### OXYGEN 16 BEAMS

\*BT1 ion beams

RT oxygen 16

### OXYGEN 16 EMISSION DECAY

INIS: 1991-07-29; ETDE: 1991-09-13

\*BT1 heavy ion emission decay

### OXYGEN 16 REACTIONS

\*BT1 heavy ion reactions

RT oxygen 16

### OXYGEN 16 TARGET

ETDE: 1976-07-09

BT1 targets

### OXYGEN 17

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 oxygen isotopes

\*BT1 stable isotopes

RT oxygen 17 reactions

### OXYGEN 17 REACTIONS

\*BT1 heavy ion reactions

RT oxygen 17

### OXYGEN 17 TARGET

ETDE: 1976-07-09

BT1 targets

### OXYGEN 18

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 oxygen isotopes

\*BT1 stable isotopes

RT oxygen 18 beams

RT oxygen 18 reactions

### OXYGEN 18 BEAMS

\*BT1 ion beams

RT oxygen 18

### OXYGEN 18 REACTIONS

\*BT1 heavy ion reactions

RT oxygen 18

### OXYGEN 18 TARGET

ETDE: 1976-07-09

BT1 targets

### OXYGEN 19

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 oxygen isotopes

\*BT1 seconds living radioisotopes

### OXYGEN 20

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 oxygen isotopes

\*BT1 seconds living radioisotopes

### OXYGEN 21

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 oxygen isotopes

\*BT1 seconds living radioisotopes

### OXYGEN 22

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 oxygen isotopes

\*BT1 seconds living radioisotopes

### OXYGEN 23

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 oxygen isotopes

### OXYGEN 24

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 oxygen isotopes

### OXYGEN 25

2007-03-12

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 nanoseconds living radioisotopes

\*BT1 oxygen isotopes

### OXYGEN 26

2007-03-12

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 nanoseconds living radioisotopes

\*BT1 oxygen isotopes

### OXYGEN 27

2007-03-12

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 nanoseconds living radioisotopes

\*BT1 oxygen isotopes

### OXYGEN 28

INIS: 1979-02-21; ETDE: 1979-03-28

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 oxygen isotopes

### OXYGEN ADDITIONS

RT oxides

### OXYGEN COMPLEXES

BT1 complexes

### OXYGEN COMPOUNDS

1996-07-16

UF aurates

UF chlorites

UF polythionates

UF polythionic acids

NT1 aluminates

NT1 antimonates

NT1 arsenates

NT1 borates

NT2 borax

NT1 boric acid

NT1 bromates

NT1 bromic acid

NT1 carbonates

NT2 americium carbonates

NT2 ammonium carbonates

NT3 auc

NT2 barium carbonates

NT2 beryllium carbonates

NT2 bismuth carbonates

NT2 cadmium carbonates

NT2 calcium carbonates

NT2 cerium carbonates

NT2 cesium carbonates

NT2 cobalt carbonates

NT2 copper carbonates

NT2 curium carbonates

NT2 erbium carbonates

NT2 europium carbonates

NT2 gadolinium carbonates

NT2 holmium carbonates

NT2 iron carbonates

NT2 lanthanum carbonates

NT2 lead carbonates

NT2 lithium carbonates

NT2 lutetium carbonates

NT2 magnesium carbonates

NT2 manganese carbonates

NT2 molybdenum carbonates

NT2 neodymium carbonates

NT2 neptunium carbonates

NT2 nickel carbonates

NT2 plutonium carbonates

NT2 polycarbonates

NT2 potassium carbonates

NT2 praseodymium carbonates

NT2 radium carbonates

NT2 rhenium carbonates

NT2 rubidium carbonates

NT2 samarium carbonates

NT2 scandium carbonates

NT2 silver carbonates

NT2 sodium carbonates

NT2 strontium carbonates

NT2 terbium carbonates

NT2 thallium carbonates

NT2 thorium carbonates

NT2 uranium carbonates

NT2 uranyl carbonates

NT2 ytterbium carbonates

NT2 yttrium carbonates

NT2 zinc carbonates

NT2 zirconium carbonates

NT1 carbonic acid

NT1 chlorates

NT1 chloric acid

NT1 chlorous acid

NT1 chromates

NT1 chromic acid

NT1 chromites

NT1 cuprates

NT1 dichromates

NT1 ferrates

NT1 ferrites

NT1 fluorates

NT1 germanates

NT2 bismuth germanates

NT1 hafnates

NT1 hydroxides

NT2 actinium hydroxides

NT2 aluminium hydroxides

NT2 americium hydroxides

NT2 ammonium hydroxides

NT2 antimony hydroxides

NT2 barium hydroxides

NT2 beryllium hydroxides

NT2 bismuth hydroxides

NT2 boron hydroxides

NT2 cadmium hydroxides

NT2 calcium hydroxides

NT2 cerium hydroxides

NT2	cesium hydroxides	NT2	cadmium nitrates	NT2	cadmium oxides
NT2	chromium hydroxides	NT2	calcium nitrates	NT2	calcium oxides
NT2	cobalt hydroxides	NT2	californium nitrates	NT2	californium oxides
NT2	copper hydroxides	NT2	cerium nitrates	NT2	carbon oxides
NT2	curium hydroxides	NT2	cesium nitrates	NT3	carbon dioxide
NT2	dysprosium hydroxides	NT2	chlorine nitrates	NT3	carbon monoxide
NT2	erbium hydroxides	NT2	chromium nitrates	NT2	cerium oxides
NT2	europium hydroxides	NT2	cobalt nitrates	NT2	cesium oxides
NT2	gadolinium hydroxides	NT2	copper nitrates	NT2	chlorine oxides
NT2	gallium hydroxides	NT2	curium nitrates	NT2	chromium oxides
NT2	germanium hydroxides	NT2	dysprosium nitrates	NT2	cobalt oxides
NT2	hafnium hydroxides	NT2	einsteinium nitrates	NT2	copper oxides
NT2	helium hydroxides	NT2	erbium nitrates	NT2	curium oxides
NT2	holmium hydroxides	NT2	europium nitrates	NT2	dysprosium oxides
NT2	indium hydroxides	NT2	gadolinium nitrates	NT2	einsteinium oxides
NT2	iron hydroxides	NT2	gallium nitrates	NT2	erbium oxides
NT2	lanthanum hydroxides	NT2	hafnium nitrates	NT2	europium oxides
NT2	lead hydroxides	NT2	holmium nitrates	NT2	fermium oxides
NT2	lithium hydroxides	NT2	indium nitrates	NT2	fluorine oxides
NT2	lutetium hydroxides	NT2	iron nitrates	NT2	gadolinium oxides
NT2	magnesium hydroxides	NT2	lanthanum nitrates	NT2	gallium oxides
NT2	manganese hydroxides	NT2	lead nitrates	NT2	germanium oxides
NT2	molybdenum hydroxides	NT2	lithium nitrates	NT2	gold oxides
NT2	neodymium hydroxides	NT2	lutetium nitrates	NT2	hafnium oxides
NT2	neptunium hydroxides	NT2	magnesium nitrates	NT2	helium oxides
NT2	nickel hydroxides	NT2	manganese nitrates	NT2	holmium oxides
NT2	niobium hydroxides	NT2	mercury nitrates	NT2	indium oxides
NT2	palladium hydroxides	NT2	molybdenum nitrates	NT2	iodine oxides
NT2	platinum hydroxides	NT2	neodymium nitrates	NT2	iridium oxides
NT2	plutonium hydroxides	NT2	neptunium nitrates	NT2	iron oxides
NT2	potassium hydroxides	NT2	nickel nitrates	NT2	krypton oxides
NT2	praseodymium hydroxides	NT2	niobium nitrates	NT2	lanthanum oxides
NT2	promethium hydroxides	NT2	palladium nitrates	NT2	lead oxides
NT2	protactinium hydroxides	NT2	peroxyacetyl nitrate	NT2	lithium oxides
NT2	rhenium hydroxides	NT2	petn	NT2	lutetium oxides
NT2	rhodium hydroxides	NT2	plutonium nitrates	NT2	magnesium oxides
NT2	rubidium hydroxides	NT2	polonium nitrates	NT2	manganese oxides
NT2	ruthenium hydroxides	NT2	potassium nitrates	NT2	mendelevium oxides
NT2	samarium hydroxides	NT2	praseodymium nitrates	NT2	mercury oxides
NT2	scandium hydroxides	NT2	promethium nitrates	NT2	molybdenum oxides
NT2	silicon hydroxides	NT2	protactinium nitrates	NT3	molybdenum blue
NT2	silver hydroxides	NT2	radium nitrates	NT2	neodymium oxides
NT2	sodium hydroxides	NT2	rubidium nitrates	NT2	neon oxides
NT2	strontium hydroxides	NT2	ruthenium nitrates	NT2	neptunium oxides
NT2	tantalum hydroxides	NT2	samarium nitrates	NT2	nickel oxides
NT2	tellurium hydroxides	NT2	scandium nitrates	NT2	niobium oxides
NT2	terbium hydroxides	NT2	silver nitrates	NT2	nitrogen oxides
NT2	thallium hydroxides	NT2	sodium nitrates	NT3	nitric oxide
NT2	thorium hydroxides	NT2	strontium nitrates	NT3	nitrogen dioxide
NT2	thulium hydroxides	NT2	tellurium nitrates	NT3	nitrous oxide
NT2	tin hydroxides	NT2	terbium nitrates	NT2	nobelium oxides
NT2	titanium hydroxides	NT2	thallium nitrates	NT2	osmium oxides
NT2	tungsten hydroxides	NT2	thorium nitrates	NT2	palladium oxides
NT2	uranium hydroxides	NT2	thulium nitrates	NT2	phosphorus oxides
NT2	vanadium hydroxides	NT2	titanium nitrates	NT2	platinum oxides
NT2	ytterbium hydroxides	NT2	uranium nitrates	NT2	plutonium oxides
NT2	yttrium hydroxides	NT2	uranyl nitrates	NT3	plutonium dioxide
NT2	zinc hydroxides	NT3	unh	NT2	polonium oxides
NT2	zirconium hydroxides	NT2	vanadium nitrates	NT2	potassium oxides
NT1	hypochlorous acid	NT2	ytterbium nitrates	NT2	praseodymium oxides
NT1	hypofluorous acid	NT2	yttrium nitrates	NT2	promethium oxides
NT1	hypiodous acid	NT2	zinc nitrates	NT2	protactinium oxides
NT1	hypophosphorous acid	NT2	zirconium nitrates	NT2	radium oxides
NT1	iodates	NT1	nitric acid	NT2	radon oxides
NT1	iodic acid	NT1	nitrites	NT2	rhenium oxides
NT1	manganates	NT1	nitrous acid	NT2	rhodium oxides
NT1	molybdates	NT1	oxides	NT2	rubidium oxides
NT1	molybdophosphates	NT2	actinium oxides	NT2	ruthenium oxides
NT1	molybdophosphoric acid	NT2	aluminium oxides	NT2	samarium oxides
NT1	nickelates	NT2	americium oxides	NT2	scandium oxides
NT1	niobates	NT2	antimony oxides	NT2	selenium oxides
NT1	nitrates	NT2	argon oxides	NT2	silicon oxides
NT2	aluminium nitrates	NT2	arsenic oxides	NT2	silver oxides
NT2	americium nitrates	NT2	barium oxides	NT2	sodium oxides
NT2	ammonium nitrates	NT2	berkelium oxides	NT3	sodium tungsten bronze
NT2	barium nitrates	NT2	beryllium oxides	NT2	strontium oxides
NT2	berkelium nitrates	NT2	bismuth oxides	NT2	sulfur oxides
NT2	beryllium nitrates	NT2	boron oxides	NT3	sulfur dioxide
NT2	bismuth nitrates	NT2	bromine oxides	NT3	sulfur trioxide

NT2	tantalum oxides	NT2	ytterbium perchlorates	NT2	yttrium phosphates
NT2	technetium oxides	NT2	yttrium perchlorates	NT2	zinc phosphates
NT2	tellurium oxides	NT2	zinc perchlorates	NT2	zirconium phosphates
NT2	terbium oxides	NT2	zirconium perchlorates	NT1	phosphine oxides
NT2	thallium oxides	NT1	perchloric acid	NT2	cmpp
NT2	thorium oxides	NT1	periodates	NT2	tributylphosphine oxide
NT3	thorotrast	NT1	periodic acid	NT2	trioctylphosphine oxide
NT2	thulium oxides	NT1	permanganates	NT2	triphenylphosphine oxide
NT2	tin oxides	NT1	peroxides	NT1	phosphoric acid
NT2	titanium oxides	NT2	benzoyl peroxide	NT1	phosphorous acid
NT2	tritium oxides	NT2	hydrogen peroxide	NT1	plumbates
NT2	tungsten oxides	NT2	plutonium peroxide	NT1	pyrophosphates
NT3	sodium tungsten bronze	NT2	uranium peroxide	NT1	rhenates
NT2	uranium oxides	NT1	perhenates	NT1	selenates
NT3	uranium dioxide	NT1	persulfates	NT1	selenites
NT3	uranium oxides u3o8	NT1	persulfuric acid	NT1	silicates
NT3	uranium trioxide	NT1	pertechnates	NT2	aluminium silicates
NT2	vanadium oxides	NT1	phosphates	NT2	americium silicates
NT2	xenon oxides	NT2	aluminium phosphates	NT2	barium silicates
NT2	ytterbium oxides	NT2	americium phosphates	NT2	beryllium silicates
NT2	yttrium oxides	NT2	ammonium phosphates	NT2	boron silicates
NT3	alloy-in-853	NT2	barium phosphates	NT2	cadmium silicates
NT2	zinc oxides	NT2	berkelium phosphates	NT2	calcium silicates
NT2	zirconium oxides	NT2	beryllium phosphates	NT2	cerium silicates
NT1	oxycarbides	NT2	bismuth phosphates	NT2	cesium silicates
NT1	oxyhalides	NT2	boron phosphates	NT2	chromium silicates
NT2	oxybromides	NT2	cadmium phosphates	NT2	cobalt silicates
NT2	oxychlorides	NT2	calcium phosphates	NT2	copper silicates
NT2	oxyfluorides	NT2	cerium phosphates	NT2	curium silicates
NT2	oxyiodides	NT2	cesium phosphates	NT2	dysprosium silicates
NT1	oxynitrates	NT2	chromium phosphates	NT2	europium silicates
NT1	oxyselenides	NT2	cobalt phosphates	NT2	germanium silicates
NT1	oxysulfides	NT2	copper phosphates	NT2	hafnium silicates
NT1	oxytellurides	NT2	dysprosium phosphates	NT2	holmium silicates
NT1	perbromates	NT2	erbium phosphates	NT2	indium silicates
NT1	perchlorates	NT2	europium phosphates	NT2	iron silicates
NT2	aluminium perchlorates	NT2	gadolinium phosphates	NT2	lanthanum silicates
NT2	americium perchlorates	NT2	gallium phosphates	NT2	lead silicates
NT2	ammonium perchlorates	NT2	germanium phosphates	NT2	lithium silicates
NT2	barium perchlorates	NT2	hafnium phosphates	NT2	lutetium silicates
NT2	cadmium perchlorates	NT2	holmium phosphates	NT2	magnesium silicates
NT2	calcium perchlorates	NT2	indium phosphates	NT2	manganese silicates
NT2	cerium perchlorates	NT2	iron phosphates	NT2	molybdenum silicates
NT2	cesium perchlorates	NT2	lanthanum phosphates	NT2	neodymium silicates
NT2	chromium perchlorates	NT2	lead phosphates	NT2	nickel silicates
NT2	cobalt perchlorates	NT2	lithium phosphates	NT2	niobium silicates
NT2	copper perchlorates	NT2	lutetium phosphates	NT2	plutonium silicates
NT2	dysprosium perchlorates	NT2	magnesium phosphates	NT2	potassium silicates
NT2	erbium perchlorates	NT2	manganese phosphates	NT2	praseodymium silicates
NT2	europium perchlorates	NT2	molybdenum phosphates	NT2	radium silicates
NT2	gadolinium perchlorates	NT2	neodymium phosphates	NT2	rubidium silicates
NT2	hafnium perchlorates	NT2	neptunium phosphates	NT2	samarium silicates
NT2	holmium perchlorates	NT2	nickel phosphates	NT2	scandium silicates
NT2	indium perchlorates	NT2	niobium phosphates	NT2	sodium silicates
NT2	iron perchlorates	NT2	plutonium phosphates	NT2	strontium silicates
NT2	lanthanum perchlorates	NT2	potassium phosphates	NT2	tantalum silicates
NT2	lead perchlorates	NT2	praseodymium phosphates	NT2	thorium silicates
NT2	lithium perchlorates	NT2	promethium phosphates	NT2	thulium silicates
NT2	lutetium perchlorates	NT2	protactinium phosphates	NT2	titanium silicates
NT2	magnesium perchlorates	NT2	rubidium phosphates	NT2	uranium silicates
NT2	manganese perchlorates	NT2	samarium phosphates	NT2	uranyl silicates
NT2	mercury perchlorates	NT2	scandium phosphates	NT2	vanadium silicates
NT2	neodymium perchlorates	NT2	silicon phosphates	NT2	ytterbium silicates
NT2	neptunium perchlorates	NT2	silver phosphates	NT2	yttrium silicates
NT2	plutonium perchlorates	NT2	sodium phosphates	NT2	zinc silicates
NT2	potassium perchlorates	NT2	strontium phosphates	NT2	zirconium silicates
NT2	praseodymium perchlorates	NT2	superphosphates	NT1	silicic acid
NT2	rubidium perchlorates	NT2	tantalum phosphates	NT1	stannates
NT2	samarium perchlorates	NT2	technetium phosphates	NT2	cadmium stannates
NT2	scandium perchlorates	NT2	terbium phosphates	NT1	sulfates
NT2	silver perchlorates	NT2	thallium phosphates	NT2	acid sulfates
NT2	sodium perchlorates	NT2	thorium phosphates	NT2	actinium sulfates
NT2	strontium perchlorates	NT2	thulium phosphates	NT2	aluminium sulfates
NT2	terbium perchlorates	NT2	tin phosphates	NT2	americium sulfates
NT2	thallium perchlorates	NT2	titanium phosphates	NT2	ammonium sulfates
NT2	thorium perchlorates	NT2	uranium phosphates	NT2	antimony sulfates
NT2	thulium perchlorates	NT2	uranyl phosphates	NT2	barium sulfates
NT2	uranium perchlorates	NT2	vanadium phosphates	NT2	berkelium sulfates
NT2	uranyl perchlorates	NT2	ytterbium phosphates	NT2	beryllium sulfates



NT2	bismuth sulfates
NT2	cadmium sulfates
NT2	calcium sulfates
NT2	cerium sulfates
NT2	cesium sulfates
NT2	chromium sulfates
NT2	cobalt sulfates
NT2	copper sulfates
NT2	dysprosium sulfates
NT2	erbium sulfates
NT2	europium sulfates
NT2	gadolinium sulfates
NT2	gallium sulfates
NT2	hafnium sulfates
NT2	holmium sulfates
NT2	indium sulfates
NT2	iridium sulfates
NT2	iron sulfates
NT2	lanthanum sulfates
NT2	lead sulfates
NT2	lithium sulfates
NT2	lutetium sulfates
NT2	magnesium sulfates
NT2	manganese sulfates
NT2	mercury sulfates
NT2	molybdenum sulfates
NT2	neodymium sulfates
NT2	neptunium sulfates
NT2	nickel sulfates
NT2	niobium sulfates
NT2	osmium sulfates
NT2	platinum sulfates
NT2	plutonium sulfates
NT2	potassium sulfates
NT2	praseodymium sulfates
NT2	protactinium sulfates
NT2	radium sulfates
NT2	rhenium sulfates
NT2	rubidium sulfates
NT2	ruthenium sulfates
NT2	samarium sulfates
NT2	scandium sulfates
NT2	silver sulfates
NT2	sodium sulfates
NT2	strontium sulfates
NT2	tantalum sulfates
NT2	terbium sulfates
NT2	thallium sulfates
NT2	thorium sulfates
NT2	thulium sulfates
NT2	tin sulfates
NT2	titanium sulfates
NT2	uranium sulfates
NT2	uranyl sulfates
NT2	vanadium sulfates
NT2	ytterbium sulfates
NT2	yttrium sulfates
NT2	zinc sulfates
NT2	zirconium sulfates
NT1	sulfites
NT2	acid sulfites
NT1	sulfuric acid
NT1	sulfurous acid
NT1	tantalates
NT1	technetates
NT1	tellurates
NT1	telluric acid
NT1	titanates
NT2	cadmium titanates
NT2	lithium titanates
NT2	plzt
NT2	pzt
NT2	strontium titanates
NT1	tungstates
NT2	aluminium tungstates
NT2	ammonium tungstates
NT2	barium tungstates
NT2	bismuth tungstates
NT2	cadmium tungstates
NT2	calcium tungstates
NT2	cerium tungstates
NT2	cesium tungstates
NT2	cobalt tungstates
NT2	copper tungstates
NT2	dysprosium tungstates
NT2	erbium tungstates
NT2	gadolinium tungstates
NT2	hafnium tungstates
NT2	indium tungstates
NT2	iron tungstates
NT2	lanthanum tungstates
NT2	lead tungstates
NT2	lithium tungstates
NT2	lutetium tungstates
NT2	manganese tungstates
NT2	neodymium tungstates
NT2	nickel tungstates
NT2	potassium tungstates
NT2	praseodymium tungstates
NT2	rubidium tungstates
NT2	samarium tungstates
NT2	scandium tungstates
NT2	silver tungstates
NT2	sodium tungstates
NT2	strontium tungstates
NT2	tantalum tungstates
NT2	thallium tungstates
NT2	thorium tungstates
NT2	tin tungstates
NT2	titanium tungstates
NT2	uranium tungstates
NT2	uranyl tungstates
NT2	vanadium tungstates
NT2	ytterbium tungstates
NT2	yttrium tungstates
NT2	zinc tungstates
NT2	zirconium tungstates
NT1	tungstophosphates
NT1	tungstophosphoric acid
NT1	vanadates
NT2	potassium vanadates
NT2	uranium vanadates
NT1	water
NT2	drinking water
NT2	feedwater
NT2	fresh water
NT2	ground water
NT3	interstitial water
NT3	magmatic water
NT2	heavy water
NT2	hot water
NT2	rain water
NT3	throughfall
NT2	seawater
NT2	tritium oxides
NT2	waste water
NT3	shale tar water
NT1	zirconates
NT2	plzt
NT2	pzt
RT	cyanates
RT	hydroxyl radicals
RT	isocyanates
RT	organic oxygen compounds
RT	ozone

**oxygen effect (radiobiology)**

USE oxygen  
USE response modifying factors

**OXYGEN ENHANCEMENT RATIO**

UF *oer*  
BT1 dimensionless numbers  
RT aerobic conditions  
RT anaerobic conditions  
RT biological radiation effects  
RT let  
RT quality factor  
RT rbe

RT response modifying factors

**OXYGEN ENRICHMENT**

INIS: 2000-04-12; ETDE: 1979-07-24

BT1 enrichment  
RT fuel-air ratio  
RT fuel systems

**oxygen fluorides**

USE fluorine oxides

**oxygen hydrides**

USE water

**OXYGEN IONS**

\*BT1 ions

**OXYGEN ISOTOPES**

1999-07-16

BT1 isotopes  
NT1 oxygen 12  
NT1 oxygen 13  
NT1 oxygen 14  
NT1 oxygen 15  
NT1 oxygen 16  
NT1 oxygen 17  
NT1 oxygen 18  
NT1 oxygen 19  
NT1 oxygen 20  
NT1 oxygen 21  
NT1 oxygen 22  
NT1 oxygen 23  
NT1 oxygen 24  
NT1 oxygen 25  
NT1 oxygen 26  
NT1 oxygen 27  
NT1 oxygen 28

**oxygen logs**

INIS: 2000-04-12; ETDE: 1979-03-27

USE neutron-gamma logging

**OXYGEN METERS**

\*BT1 meters  
RT chemical analysis

**OXYGEN PLANTS**

INIS: 2000-04-12; ETDE: 1981-03-17

Large capacity plants for liquefying air and separating oxygen, e.g., for coal gasification.

BT1 industrial plants  
RT moltox oxygen process

**OXYGEN POTENTIAL**

1981-04-03

Partial molar free enthalpy of oxygen in an oxide phase.

\*BT1 free enthalpy

**OXYGENASES**

INIS: 1996-11-13; ETDE: 1981-01-12

Code number 1.13.

(From 1974 till March 1997 TRYPTOPHAN OXYGENASE was a valid ETDE descriptor.)

UF *pyrrolase (tryptophan)*  
UF *tryptophan oxygenase*  
\*BT1 oxidoreductases  
NT1 mixed-function oxidases

**OXYHALIDES**

INIS: 1989-11-24; ETDE: 1989-12-08

BT1 halogen compounds  
BT1 oxygen compounds  
NT1 oxybromides  
NT1 oxychlorides  
NT1 oxyfluorides  
NT1 oxyiodides

**OXYIODIDES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 iodine compounds
- \*BT1 oxyhalides
- RT iodides
- RT iodine oxides
- RT oxides

**oxymethylene**

- USE formaldehyde

**OXYNITRATES**

2000-04-12

- BT1 nitrogen compounds
- BT1 oxygen compounds
- RT nitrates
- RT oxides

**OXYSELENIDES**

2000-04-12

- BT1 oxygen compounds
- BT1 selenium compounds
- RT oxides
- RT selenides

**OXYSULFIDES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1 oxygen compounds
- BT1 sulfur compounds
- RT oxides
- RT sulfides
- RT sulfur oxides

**OXYTELLURIDES**

2000-04-12

- BT1 oxygen compounds
- BT1 tellurium compounds
- RT oxides
- RT tellurides

**OXYTETRACYCLINE**

- UF terramycin
- \*BT1 tetracyclines

**OXYTOCIN**

- \*BT1 pituitary hormones
- RT parturition
- RT uterus

**OYSTER CREEK-1 REACTOR**

*AmerGen Energy Co., LLC, Forked River, New Jersey, USA.*

- \*BT1 bwr type reactors

**oyster creek-2 reactor**

- USE forked river-1 reactor

**OYSTERS**

- \*BT1 molluscs
- RT seafood

**ozark region**

INIS: 2000-04-12; ETDE: 1978-03-09

*Use the specific states if known; otherwise, use the descriptor below.*

(Prior to May 1996 this was a valid ETDE descriptor.)

- USE usa

**OZONE**

- RT atmospheric chemistry
- RT oxygen
- RT oxygen compounds
- RT ozonization

**OZONE LAYER**

INIS: 1983-02-03; ETDE: 1979-05-03

- BT1 layers
- RT chlorofluorocarbons
- RT climatic change
- RT stratosphere

**OZONIZATION**

INIS: 1992-04-13; ETDE: 1980-07-09

- BT1 chemical reactions
- RT ozone

**p-branes**

2007-08-13

- USE branes

**P CODES**

- BT1 computer codes

**P INVARIANCE**

- UF parity nonconservation
- UF space reflection
- BT1 invariance principles
- RT lee-yang theory
- RT parity

**p-n counters**

- USE junction detectors

**P-N JUNCTIONS**

1977-01-26

- BT1 semiconductor junctions
- RT n-type conductors
- RT p-type conductors
- RT semiconductor materials

**P REACTOR**

*Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.*

- UF savannah river plant p reactor
- \*BT1 heavy water moderated reactors
- \*BT1 special production reactors

**P STATES**

- BT1 energy levels

**P-TYPE CONDUCTORS**

- \*BT1 semiconductor materials
- RT p-n junctions

**P WAVES**

*For seismic waves use SEISMIC P WAVES.*

- BT1 partial waves
- RT angular momentum
- RT quantum mechanics

**p waves (seismic)**

- USE seismic p waves

**P1-APPROXIMATION**

- \*BT1 spherical harmonics method
- RT boltzmann equation
- RT perturbation theory

**P2-APPROXIMATION**

- \*BT1 spherical harmonics method
- RT boltzmann equation
- RT perturbation theory

**P3-APPROXIMATION**

- \*BT1 spherical harmonics method
- RT boltzmann equation
- RT perturbation theory

**PABA**

- UF aminobenzoic acid-para
- UF para-aminobenzoic acid
- UF vitamin h-1
- \*BT1 amino acids
- RT folic acid
- RT vitamin b group

**pacemakers**

- USE cardiac pacemakers

**pacific gas diablo canyon-1 reactor**

1993-11-09

- USE diablo canyon-1 reactor

**pacific gas diablo canyon-2 reactor**

1993-11-09

- USE diablo canyon-2 reactor

**pacific islands**

INIS: 1992-06-04; ETDE: 1978-12-11

- USE oceania

**pacific northwest laboratories**

INIS: 2000-04-12; ETDE: 1982-09-10

- USE battelle pacific northwest laboratories

**pacific northwest region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

- USE usa

**PACIFIC OCEAN**

1996-07-18

- UF humboldt bay
- \*BT1 seas
- NT1 bering sea
- NT1 china sea
- NT1 gulf of alaska
- NT1 gulf of california
- NT1 puget sound
- NT1 san francisco bay
- NT1 santa barbara channel
- NT1 sequim bay
- NT1 tasman sea
- RT aleutian islands
- RT american samoa
- RT fiji
- RT hawaii
- RT indonesia
- RT kiribati
- RT kurile islands
- RT marshall islands
- RT micronesia
- RT nauru
- RT new guinea
- RT new hebrides islands
- RT new zealand
- RT philippines
- RT singapore
- RT southern oscillation
- RT tasmania
- RT trust territory of the pacific islands
- RT tuvalu
- RT us west coast

**PACKAGE REACTORS**

*Compact power reactors specially designed to simplify shipping and assembly.*

- \*BT1 power reactors
- \*BT1 transportable reactors

**PACKAGING**

- RT containers
- RT packaging rules
- RT transport

**PACKAGING RULES**

INIS: 1976-12-08; ETDE: 1978-03-08

*Including labelling.*

- UF labelling (packages)
- \*BT1 regulations
- RT packaging
- RT transport

**PACKED BEDS**

*INIS: 1992-03-02; ETDE: 1992-04-01*  
(Prior to April 1992 PACKED BED was a valid ETDE descriptor.)

*UF fixed beds*  
*RT ebullated bed*  
*RT fluidized beds*

**packing**

*INIS: 2000-04-12; ETDE: 1979-06-06*  
USE stowing

**packing (column)**

*INIS: 1984-04-04; ETDE: 2002-04-26*  
USE column packing

**PACKINGS**

*2000-04-12*  
*UF cooling tower packing grids*  
**NT1** column packing  
*RT cooling towers*

**PAD DISTRICTS**

*INIS: 2000-04-12; ETDE: 1979-09-27*  
*UF petroleum administration for defense districts*  
*RT petroleum*  
*RT usa*

**PADE APPROXIMATION**

\*BT1 approximations  
*RT series expansion*

**PADUCAH PLANT**

\*BT1 gaseous diffusion plants  
\*BT1 us aec  
\*BT1 us doe  
\*BT1 us erda  
*RT kentucky*

**paec**

*INIS: 1977-09-06; ETDE: 1977-10-19*  
USE philippine atomic energy commission

**pah**

*INIS: 2000-04-12; ETDE: 1976-08-24*  
USE polycyclic aromatic hydrocarbons

**pahr**

*INIS: 1984-06-21; ETDE: 2002-04-26*  
*Post-accident heat removal.*  
USE after-heat removal

**PAIN**

BT1 symptoms  
*RT analgesics*  
*RT anesthesia*  
*RT nervous system*

**paintings**

*INIS: 1984-04-04; ETDE: 2002-04-26*  
USE cultural objects

**PAINTS**

BT1 coatings  
**NT1** luminous paints  
*RT corrosion protection*  
*RT pigments*

**pair conversion**

*INIS: 1985-01-17; ETDE: 2000-10-23*  
USE internal pair production

**PAIR PRODUCTION**

*For production of particle pairs only; ion pairs should be indexed to IONIZATION and ION PAIRS.*

*UF production (pair)*  
BT1 interactions  
BT1 particle production  
**NT1** internal pair production  
*RT bethe-heitler theory*  
*RT electron pairs*

*RT muon pairs*

**PAIR SPECTROMETERS**

\*BT1 gamma spectrometers

**PAIRING ENERGY**

\*BT1 binding energy

**PAIRING INTERACTIONS**

BT1 interactions  
*RT generator-coordinate method*

**PAKHRA SYNCHROTRON**

\*BT1 synchrotrons

**PAKISTAN**

BT1 asia  
BT1 developing countries

**pakistan (east)**

*INIS: 2000-04-12; ETDE: 1976-05-17*  
USE bangladesh

**pakistan atomic research reactor**

*2000-04-12*  
USE parr-1 reactor

**pakistan miniature neutron source**

*reactor*  
*2004-03-15*  
USE parr-2 reactor

**PAKISTANI ORGANIZATIONS**

*2004-03-31*  
BT1 national organizations

**PAKS-1 REACTOR**

*Paks, Tolna, Hungary.*  
*UF hungarian paks-1 reactor*  
\*BT1 wwer type reactors

**PAKS-2 REACTOR**

*Paks, Tolna, Hungary.*  
*UF hungarian paks-2 reactor*  
\*BT1 wwer type reactors

**PAKS-3 REACTOR**

*INIS: 1980-07-24; ETDE: 1980-08-12*  
*Paks, Tolna, Hungary.*  
*UF hungarian paks-3 reactor*  
\*BT1 wwer type reactors

**PAKS-4 REACTOR**

*INIS: 1980-07-24; ETDE: 1980-08-12*  
*Paks, Tolna, Hungary.*  
*UF hungarian paks-4 reactor*  
\*BT1 wwer type reactors

**palanquin event**

*2000-04-12*  
(Prior to July 1996 this was a valid ETDE descriptor.)  
USE cratering explosions  
USE underground explosions

**PALAU**

*2000-04-12*  
\*BT1 gold base alloys  
\*BT1 palladium alloys

**palau islands**

*INIS: 2000-04-12; ETDE: 1983-05-21*  
USE trust territory of the pacific islands

**paleocene epoch**

*INIS: 2000-04-12; ETDE: 1977-10-20*  
USE tertiary period

**PALEOCLIMATOLOGY**

*INIS: 1993-01-28; ETDE: 1986-07-25*  
*The study of climates in the geologic past, involving fossil, glacial, isotopic, or other data.*  
BT1 paleontology

*RT climate models*  
*RT climates*  
*RT climatic change*  
*RT fossils*  
*RT little ice age*

**paleogene period**

*INIS: 2000-04-12; ETDE: 1977-10-20*  
USE tertiary period

**PALEOMAGNETISM**

*INIS: 1999-05-19; ETDE: 1979-07-24*  
BT1 magnetism  
*RT geologic ages*  
*RT geomagnetic field*  
*RT plate tectonics*

**PALEONTOLOGY**

**NT1** paleoclimatology  
*RT age estimation*  
*RT biological evolution*  
*RT biological extinction*  
*RT fossils*  
*RT paleotemperature*  
*RT palynology*

**PALEOTEMPERATURE**

*INIS: 2000-04-12; ETDE: 1985-11-19*  
*RT paleontology*  
*RT temperature measurement*

**PALEOZOIC ERA**

*INIS: 1992-04-14; ETDE: 1977-10-19*  
BT1 geologic ages  
**NT1** cambrian period  
**NT1** carboniferous period  
**NT1** devonian period  
**NT1** ordovician period  
**NT1** permian period  
**NT1** silurian period

**PALIMPINON GEOTHERMAL FIELD**

*INIS: 1992-06-04; ETDE: 1984-02-23*  
*UF southern negros geothermal field*  
BT1 geothermal fields  
*RT philippines*

**PALISADES-1 REACTOR**

*Nuclear Management Co., LLC, South Haven, Michigan, USA.*  
*UF consumers michigan palisades reactor*  
*UF south haven michigan reactor*  
\*BT1 pwr type reactors

**PALLADIUM**

\*BT1 platinum metals

**PALLADIUM 100**

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes

**PALLADIUM 101**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes

**PALLADIUM 102**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes  
\*BT1 stable isotopes

**PALLADIUM 102 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**PALLADIUM 103**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes

**PALLADIUM 104**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 stable isotopes

**PALLADIUM 104 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**PALLADIUM 105**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 stable isotopes

**PALLADIUM 105 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**PALLADIUM 106**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 stable isotopes

**PALLADIUM 106 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**PALLADIUM 107**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 years living radioisotopes

**PALLADIUM 107 TARGET**

- INIS: 1978-07-03; ETDE: 1977-11-28*  
BT1 targets

**PALLADIUM 108**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 stable isotopes

**PALLADIUM 108 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**PALLADIUM 109**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 110**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 stable isotopes

**PALLADIUM 110 REACTIONS**

- 1992-02-04*  
\*BT1 heavy ion reactions

**PALLADIUM 110 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**PALLADIUM 111**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 112**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 113**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 114**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 115**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 116**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 117**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 118**

- 1976-07-06*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes  
\*BT1 seconds living radioisotopes

**PALLADIUM 118 REACTIONS**

- INIS: 1979-12-20; ETDE: 1979-07-18*  
\*BT1 heavy ion reactions

**PALLADIUM 118 TARGET**

- INIS: 1979-12-20; ETDE: 1979-07-18*  
BT1 targets

**PALLADIUM 119**

- INIS: 1991-03-22; ETDE: 1991-04-09*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 palladium isotopes

**PALLADIUM 120**

- INIS: 1993-04-13; ETDE: 1993-07-06*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 121**

- 2007-11-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes

**PALLADIUM 122**

- 2007-11-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes

**PALLADIUM 123**

- 2007-11-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes

**PALLADIUM 124**

- 2007-11-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes

**PALLADIUM 91**

- 2007-11-22*  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes

**PALLADIUM 92**

- 2007-11-22*  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 palladium isotopes

**PALLADIUM 93**

- 2001-11-30*  
\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes  
\*BT1 seconds living radioisotopes

**PALLADIUM 94**

- 1996-02-14*  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes  
\*BT1 seconds living radioisotopes

**PALLADIUM 95**

- 1981-09-17*  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes  
\*BT1 seconds living radioisotopes

**PALLADIUM 96**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 97**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 98**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 99**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM ADDITIONS**

*Alloys containing not more than 1% Pd are listed here.*

*RT* palladium alloys

**PALLADIUM ALLOYS**

*Alloys containing more than 1% Pd.*

\*BT1 platinum metal alloys

**NT1** palau

**NT1** palladium base alloys

*RT* palladium additions

**PALLADIUM ARSENIDES**

*INIS: 1991-09-16; ETDE: 1976-07-07*

\*BT1 arsenides

\*BT1 palladium compounds

**PALLADIUM BASE ALLOYS**

\*BT1 palladium alloys

**PALLADIUM BORIDES**

*1991-09-16*

\*BT1 borides

\*BT1 palladium compounds

**PALLADIUM BROMIDES**

*INIS: 1979-05-28; ETDE: 1979-03-05*

\*BT1 bromides

\*BT1 palladium compounds

**PALLADIUM CARBIDES**

\*BT1 carbides

\*BT1 palladium compounds

**PALLADIUM CHLORIDES**

\*BT1 chlorides

\*BT1 palladium compounds

**PALLADIUM COMPLEXES**

\*BT1 transition element complexes

**PALLADIUM COMPOUNDS**

*1997-06-19*

**BT1** transition element compounds

**NT1** palladium arsenides

**NT1** palladium borides

**NT1** palladium bromides

**NT1** palladium carbides

**NT1** palladium chlorides

**NT1** palladium fluorides

**NT1** palladium hydrides

**NT1** palladium hydroxides

**NT1** palladium iodides

**NT1** palladium nitrates

**NT1** palladium nitrides

**NT1** palladium oxides

**NT1** palladium phosphides

**NT1** palladium selenides

**NT1** palladium silicides

**NT1** palladium sulfides

**NT1** palladium tellurides

**PALLADIUM FLUORIDES**

\*BT1 fluorides

\*BT1 palladium compounds

**PALLADIUM HYDRIDES**

\*BT1 hydrides

\*BT1 palladium compounds

**PALLADIUM HYDROXIDES**

*INIS: 1996-07-08; ETDE: 1979-05-25*

(From June 1996 to November 2007)

PALLADIUM COMPOUNDS + HYDROXIDES was used for this concept.)

\*BT1 hydroxides

\*BT1 palladium compounds

**PALLADIUM IODIDES**

\*BT1 iodides

\*BT1 palladium compounds

**PALLADIUM IONS**

\*BT1 ions

**PALLADIUM ISOTOPES**

*1999-07-16*

**BT1** isotopes

**NT1** palladium 100

**NT1** palladium 101

**NT1** palladium 102

**NT1** palladium 103

**NT1** palladium 104

**NT1** palladium 105

**NT1** palladium 106

**NT1** palladium 107

**NT1** palladium 108

**NT1** palladium 109

**NT1** palladium 110

**NT1** palladium 111

**NT1** palladium 112

**NT1** palladium 113

**NT1** palladium 114

**NT1** palladium 115

**NT1** palladium 116

**NT1** palladium 117

**NT1** palladium 118

**NT1** palladium 119

**NT1** palladium 120

**NT1** palladium 121

**NT1** palladium 122

**NT1** palladium 123

**NT1** palladium 124

**NT1** palladium 91

**NT1** palladium 92

**NT1** palladium 93

**NT1** palladium 94

**NT1** palladium 95

**NT1** palladium 96

**NT1** palladium 97

**NT1** palladium 98

**NT1** palladium 99

**PALLADIUM NITRATES**

*INIS: 1994-08-22; ETDE: 1978-10-20*

(From January 1993 to November 2007)

PALLADIUM COMPOUNDS + NITRATES was used for this concept.)

\*BT1 nitrates

\*BT1 palladium compounds

**PALLADIUM NITRIDES**

*INIS: 2000-04-12; ETDE: 1975-12-16*

(From January 1995 to November 2007)

PALLADIUM COMPOUNDS + NITRIDES was used for this concept.)

\*BT1 nitrides

\*BT1 palladium compounds

**PALLADIUM OXIDES**

\*BT1 oxides

\*BT1 palladium compounds

**PALLADIUM PHOSPHIDES**

*INIS: 2000-04-12; ETDE: 1975-10-01*

\*BT1 palladium compounds

\*BT1 phosphides

**PALLADIUM SELENIDES**

*INIS: 2000-04-12; ETDE: 1976-03-11*

\*BT1 palladium compounds

\*BT1 selenides

**PALLADIUM SILICIDES**

*INIS: 1976-10-29; ETDE: 1976-02-19*

\*BT1 palladium compounds

\*BT1 silicides

**PALLADIUM SULFIDES**

*1976-10-07*

\*BT1 palladium compounds

\*BT1 sulfides

**PALLADIUM TELLURIDES**

*INIS: 1978-02-23; ETDE: 1976-06-07*

\*BT1 palladium compounds

\*BT1 tellurides

**PALM OIL**

*INIS: 2001-06-19; ETDE: 2001-11-30*

\*BT1 vegetable oils

*RT* oil palms

**palmitic acid**

*USE* hexadecanoic acid

**PALO DURO BASIN**

*INIS: 2000-04-12; ETDE: 1984-02-10*

**BT1** permian basin

*RT* radioactive waste disposal

*RT* texas

**PALO VERDE-1 REACTOR**

*Arizona Public Service Co., Wintersburg, Arizona, USA.*

\*BT1 pwr type reactors

*RT* ce standard reactor

**PALO VERDE-2 REACTOR**

*Arizona Public Service Co., Wintersburg, Arizona, USA.*

\*BT1 pwr type reactors

*RT* ce standard reactor

**PALO VERDE-3 REACTOR**

*Arizona Public Service Co., Wintersburg, Arizona, USA.*

\*BT1 pwr type reactors

*RT* ce standard reactor

**PALO VERDE-4 REACTOR**

*INIS: 1978-07-31; ETDE: 1978-06-14*

*Arizona Public Service Co., Wintersburg, Arizona, USA. Canceled in 1979 before construction began.*

\*BT1 pwr type reactors

*RT* ce standard reactor

**PALO VERDE-5 REACTOR**

*INIS: 1978-07-31; ETDE: 1978-06-14*

*Arizona Public Service Co., Wintersburg, Arizona, USA. Canceled in 1979 before construction began.*

\*BT1 pwr type reactors

*RT* ce standard reactor

**PALUEL-1 REACTOR**

*INIS: 1981-05-11; ETDE: 1981-06-13*

\*BT1 pwr type reactors

**PALUEL-2 REACTOR**

*INIS: 1981-07-13; ETDE: 1981-08-04*

\*BT1 pwr type reactors

**PALUEL-3 REACTOR**

*INIS: 1981-07-13; ETDE: 1981-08-04*

\*BT1 pwr type reactors

**PALUEL-4 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04

\*BT1 pwr type reactors

**PALYNOLOGY**

INIS: 2000-04-12; ETDE: 1986-01-15

The study of pollen and spores of plants, including their dispersal and applications in stratigraphy and paleoecology.

RT paleontology

RT pollen

RT stratigraphy

**PAMCO PROCESS**

2000-04-12

Spencer chemical company process for direct catalytic conversion of coal to synthetic crude oil by hydrogenation during and after solvent extraction.

\*BT1 coal liquefaction

**PAMELA PLANT**

1988-02-02

Vitrification plant for high-level radioactive wastes in Mol, Belgium.

\*BT1 radioactive waste facilities

RT high-level radioactive wastes

RT pilot plants

RT radioactive waste processing

RT vitrification

**PAMPUS STORAGE RING**

INIS: 1977-09-15; ETDE: 1977-11-10

Photons for Atomic and Molecular Processes and Universal Studies storage ring facility in Amsterdam.

BT1 storage rings

**pan (pyridylazonaphthol)**

ETDE: 2005-02-01

(Prior to January 2005 PAN was a valid descriptor.)

USE pyridylazonaphthol

**PANAMA**

\*BT1 central america

BT1 developing countries

**PANAMA CANAL**

1996-07-08

\*BT1 inland waterways

**panama canal zone**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE central america

**PANCREAS**

BT1 digestive system

\*BT1 endocrine glands

RT amylase

RT chymotrypsin

RT glucagon

RT insulin

RT trypsin

**PANELS**

INIS: 1999-05-26; ETDE: 1985-04-09

RT underground mining

RT walls

**panindco process**

2000-04-12

Pulverized coal is fed into center of cylinder and surrounded by oxygen-steam or air-steam mixtures. Synthesis gas of 210 or 125 btu/scf is produced.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**PANOFSKY RATIO**

Charge exchange to capture ratio.

BT1 dimensionless numbers

RT capture

RT photoproduction

**PANSTOWA AGENCJA****ATOMISTYKI**

INIS: 1992-01-28; ETDE: 1992-02-14

\*BT1 polish organizations

**PANTEX PLANT**

INIS: 1977-09-06; ETDE: 1976-11-17

\*BT1 us doe

\*BT1 us erda

RT texas

**PANTOTHENIC ACID**

UF vitamin b-5

\*BT1 amino acids

\*BT1 hydroxy acids

\*BT1 vitamin b group

RT alanine-beta

**PAPAII**

Code number 3.4.22.2.

\*BT1 sh-proteinases

**PAPAVER SOMNIFERUM**

\*BT1 magnoliopsida

\*BT1 medicinal plants

RT morphine

RT opium

**PAPAYAS**

\*BT1 fruits

**PAPER**

RT dielectric materials

RT paper industry

**paper chromatography**

USE chromatography

**PAPER INDUSTRY**

INIS: 1992-03-10; ETDE: 1977-01-31

\*BT1 wood products industry

RT forestry

RT paper

RT printing and publishing industry

RT wood

**papp**

1996-07-18

Aminopropiophenone-para.

(Until July 1996 this was a valid descriptor.)

USE amines

USE ketones

**paprika**

INIS: 1984-04-04; ETDE: 2001-01-23

USE peppers

**papua**

INIS: 1992-06-04; ETDE: 1978-10-25

USE papua new guinea

**PAPUA NEW GUINEA**

INIS: 1992-02-21; ETDE: 1978-10-25

(Prior to February 1992, this was indexed by NEW GUINEA.)

UF papua

\*BT1 new guinea

**para-aminobenzoic acid**

USE paba

**PARA-SCHOEPITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 uranium minerals

RT uranium oxides

**parabanic acid**

USE imidazoles

USE organic oxygen compounds

**PARABIOSIS**

BT1 mosaicism

RT blood circulation

**PARABOLAS**

2000-04-12

BT1 shape

**PARABOLIC COLLECTORS**

INIS: 1992-03-11; ETDE: 1977-06-21

\*BT1 concentrating collectors

NT1 parabolic dish collectors

NT1 parabolic trough collectors

RT parabolic reflectors

**PARABOLIC DISH COLLECTORS**

INIS: 1992-03-30; ETDE: 1978-10-25

UF circular point collectors

UF parabolic point collectors

\*BT1 parabolic collectors

RT parabolic dish reflectors

**PARABOLIC DISH REFLECTORS**

INIS: 2000-04-12; ETDE: 1981-04-17

\*BT1 parabolic reflectors

RT parabolic dish collectors

**parabolic point collectors**

INIS: 1992-03-30; ETDE: 1978-10-25

USE parabolic dish collectors

**PARABOLIC REFLECTORS**

2000-04-12

\*BT1 solar reflectors

NT1 parabolic dish reflectors

NT1 parabolic trough reflectors

RT cassegrainian concentrators

RT compound parabolic concentrators

RT mirrors

RT parabolic collectors

RT parabolic trough collectors

RT reflection

**PARABOLIC TROUGH COLLECTORS**

INIS: 1992-03-11; ETDE: 1978-10-25

UF cylindrical parabolic collectors

\*BT1 parabolic collectors

RT parabolic reflectors

RT parabolic trough reflectors

**PARABOLIC TROUGH REFLECTORS**

INIS: 2000-04-12; ETDE: 1981-04-17

\*BT1 parabolic reflectors

RT parabolic trough collectors

**paracharge**

INIS: 1996-07-18; ETDE: 1976-11-01

(Until July 1996 this was a valid descriptor.)

USE particle properties

**PARACHUTES**

2000-04-12

RT aerodynamics

RT reentry

**PARADISE STEAM PLANT**

INIS: 2000-04-12; ETDE: 1978-09-13

\*BT1 fossil-fuel power plants

RT tennessee valley authority

**PARADOX BASIN**

INIS: 1986-07-09; ETDE: 1984-03-19

An area of about 10, 000 square miles in southeastern Utah and southwestern Colorado underlain by a series of salt-core anticlines.

RT colorado

RT radioactive waste disposal  
RT utah

**PARAELECTRIC RESONANCE**

*Resonant rotation of electric dipoles in ionic crystals.*

UF *per* (paraelectric resonance)  
\*BT1 electric resonance

**PARAFFIN**

\*BT1 alkanes  
\*BT1 waxes  
RT shielding materials

**paraffin removal**

INIS: 2000-04-12; ETDE: 1984-10-24  
USE dewaxing

**paraffins**

USE alkanes

**paragenes**

INIS: 1982-01-13; ETDE: 1977-12-22  
USE plasmids

**paragenesis**

INIS: 2000-04-12; ETDE: 1981-08-21  
*A characteristic association of minerals connoting contemporaneous formation. (Prior to March 1997 this was a valid ETDE descriptor.)*  
SEE geologic deposits  
SEE petrogenesis

**paragonite**

INIS: 2000-04-12; ETDE: 1976-01-26  
*A yellowish or greenish mineral of the mica group. (Prior to January 1995, this was a valid ETDE descriptor.)*  
USE mica

**PARAGUAY**

1982-02-09  
BT1 developing countries  
\*BT1 south america

**PARAGUAYAN CNEA**

2005-07-06  
*Comision Nacional de Energia Atomica.*  
UF *cnea* (paraguay)  
\*BT1 paraguay organizations

**PARAGUAYAN ORGANIZATIONS**

2005-07-06  
BT1 national organizations  
NT1 paraguay cnea

**PARAHO PROCESS**

2000-04-12  
*An oil shale processing method in which heat transfer during the vertical-kiln retorting process is effected by internal combustion of spent shale carbon residue. An alternative method makes use of hot recycle gas with no combustion in the retort.*  
RT oil shales

**PARALLEL PROCESSING**

INIS: 1997-06-17; ETDE: 1984-01-27  
*The concurrent or simultaneous execution of more than one program, or the handling of input for more than one operation at the same time.*  
UF *multiprocessing*  
BT1 programming  
RT algorithms  
RT cedar computers  
RT computers  
RT memory management  
RT task scheduling  
RT vector processing

**paramagnetic resonance (electron acoustic)**

INIS: 1993-11-09; ETDE: 2002-04-26  
USE acoustic esr

**paramagnetic resonance (electron)**

USE electron spin resonance

**paramagnetic resonance (nuclear acoustic)**

INIS: 1993-11-09; ETDE: 2002-04-26  
USE acoustic nmr

**paramagnetic resonance (nuclear)**

USE nuclear magnetic resonance

**PARAMAGNETISM**

BT1 magnetism  
RT van vleck theory

**PARAMECIUM**

\*BT1 ciliata

**parameter computers**

1997-01-28  
(Until October 1996 this was a valid descriptor.)  
USE digital computers

**PARAMETRIC AMPLIFIERS**

\*BT1 amplifiers  
RT frequency converters

**PARAMETRIC ANALYSIS**

INIS: 1992-03-09; ETDE: 1980-03-04  
*Experimental or theoretical study of the changes in the characteristics of a system due to changes in design or operating parameters.*  
NT1 prony method  
RT mathematical models  
RT multi-parameter analysis  
RT optimization  
RT response functions  
RT sensitivity analysis  
RT systems analysis

**PARAMETRIC INSTABILITIES**

UF *non-linear plasma instabilities*  
UF *nonlinear plasma instabilities*  
\*BT1 plasma macroinstabilities  
RT alternating current  
RT electric fields

**PARAMETRIC OSCILLATORS**

INIS: 1994-06-27; ETDE: 1978-12-11  
\*BT1 oscillators  
RT optical equipment

**PARASITES**

1996-07-18  
UF *claviceps*  
SF *helminths*  
NT1 ascaridae  
NT2 ascaris  
NT1 cestodes  
NT1 dictyocaulus  
NT1 fusarium  
NT1 hookworm  
NT1 mildew  
NT1 sporozoa  
NT2 babesidae  
NT2 plasmodium  
NT1 trematodes  
NT2 fasciola  
NT2 schistosoma  
NT1 trichinella  
NT1 trypanosoma  
NT1 ustilago  
NT1 viruses  
NT2 aids virus  
NT2 bacteriophages

NT2 influenza viruses  
NT2 measles virus  
NT2 oncogenic viruses  
NT3 adenovirus  
NT3 leukemia viruses  
NT3 polyoma virus  
NT2 polio virus  
NT2 simian virus  
NT2 tobacco mosaic virus  
NT2 vaccinia virus  
RT disease vectors  
RT filariasis  
RT fungi  
RT hydatidosis  
RT insects  
RT invertebrates  
RT microorganisms  
RT mites  
RT nematodes  
RT parasitic diseases  
RT pest control  
RT pest eradication  
RT pesticides  
RT plant diseases  
RT protozoa  
RT screwworm fly  
RT sterile male technique  
RT trypanosomes

**PARASITIC DISEASES**

INIS: 1982-12-08; ETDE: 1981-01-12  
\*BT1 infectious diseases  
NT1 fascioliasis  
NT1 filariasis  
NT1 hydatidosis  
NT1 malaria  
NT1 schistosomiasis  
NT1 trichinosis  
NT1 trypanosomiasis  
RT dictyocaulus  
RT hookworm  
RT host  
RT parasites

**PARASTATISTICS**

INIS: 1977-01-26; ETDE: 1977-04-13  
RT bose-einstein statistics  
RT fermi statistics  
RT field algebra  
RT statistical mechanics

**parasympathetic nervous system**

USE autonomic nervous system

**PARASYMPATHOLYTICS**

\*BT1 autonomic nervous system agents  
NT1 atropine  
NT1 nicotine  
RT autonomic nervous system  
RT neuroregulators  
RT parasympathomimetics  
RT sympatholytics  
RT sympathomimetics

**PARASYMPATHOMIMETICS**

\*BT1 autonomic nervous system agents  
NT1 acetylcholine  
NT1 eserine  
NT1 nicotine  
NT1 pilocarpine  
RT autonomic nervous system  
RT neuroregulators  
RT parasympatholytics  
RT sympatholytics  
RT sympathomimetics  
RT vagus

**PARATHION**

INIS: 1976-05-07; ETDE: 1976-08-04  
\*BT1 insecticides  
\*BT1 organic nitrogen compounds

- \*BT1 organic phosphorus compounds
- \*BT1 thiophosphoric acid esters

**PARATHORMONE**

- \*BT1 peptide hormones
- RT bone tissues
- RT calcium
- RT parathyroid glands

**PARATHYROID GLANDS**

- \*BT1 endocrine glands
- RT calcitonin
- RT hyperparathyroidism
- RT neck
- RT parathormone
- RT thyroid

**PARATUNKA GEOTHERMAL FIELD**

2000-04-12

- BT1 geothermal fields

**paratyphoid**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE bacterial diseases

**paris convention-third party liability**

- USE pcotpl

**PARITY**

1996-06-28

(Prior to July 1996 MINAMI AMBIGUITY was a valid ETDE descriptor.)

- SF *minami ambiguity*
- BT1 particle properties
- RT morrison rule
- RT p invariance
- RT quantum numbers

**parity nonconservation**

- USE p invariance

**PARKA REACTOR**

INIS: 1979-02-21; ETDE: 1976-12-16

LANL, Los Alamos, New Mexico, USA. Shut down in 1987.

UF *lasl critical assembly*

- \*BT1 zero power reactors

**parks**

INIS: 2000-04-12; ETDE: 1981-01-09

- SEE everglades national park
- SEE public lands
- SEE recreational areas
- SEE yellowstone national park

**parks (energy)**

INIS: 2000-04-12; ETDE: 1981-01-09

- USE energy parks

**parks (nuclear)**

INIS: 2000-04-12; ETDE: 1981-01-09

- USE nuclear parks

**paroxypropione**

INIS: 2005-01-31; ETDE: 2005-02-01

- USE hydroxypropiofenone

**PARR-1 REACTOR**

2004-03-15

Pakistan Atomic Energy Commission, Islamabad, Pakistan.

(Prior to March 2004 the descriptor PARR REACTOR was used for this reactor.)

UF *islamabad reactor pakistan*UF *pakistan atomic research reactor*UF *parr reactor*UF *rawalpindi research reactor*

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors

**PARR-2 REACTOR**

2004-03-15

Pakistan Atomic Energy Commission, Islamabad, Pakistan.

UF *pakistan miniature neutron source reactor*

- \*BT1 mnsr type reactors

**parr carolinas cvtr reactor**

- USE cvtr reactor

**parr reactor**

(Prior to March 2004 this was a valid descriptor.)

- USE parr-1 reactor

**parsonsite**

INIS: 1996-07-08; ETDE: 2002-04-26

(Until June 1996 this was a valid descriptor.)

- USE phosphate minerals
- USE uranium minerals

**part-time work schedules**

INIS: 2000-04-12; ETDE: 1984-05-08

- USE alternative work schedules

**parthenium argentatum**

INIS: 2000-04-12; ETDE: 1980-01-15

- USE guayule

**parthenogenesis**

- USE reproduction

**PARTIAL BODY IRRADIATION**UF *shielded organs*

- \*BT1 external irradiation
- RT abscopal radiation effects
- RT local irradiation
- RT spatial dose distributions

**partial conservation axial currents**

1993-11-09

- USE peac theory

**partial conservation vector current**

1993-11-09

- USE pcvc theory

**PARTIAL DIFFERENTIAL EQUATIONS**

INIS: 1982-12-07; ETDE: 1980-11-25

- \*BT1 differential equations
- NT1 boltzmann equation
- NT1 boltzmann-vaslov equation
- NT2 plasma fluid equations
- NT1 continuity equations
- NT1 diffusion equations
- NT2 neutron diffusion equation
- NT1 equations of motion
- NT1 fokker-planck equation
- NT1 fourier heat equation
- NT1 grad-shafranov equation
- NT1 hamilton-jacobi equations
- NT1 korteweg-de vries equation
- NT1 lagrange equations
- NT1 laplace equation
- NT1 maxwell equations
- NT1 navier-stokes equations
- NT1 poisson equation
- NT1 proca equations
- NT1 wave equations
- NT2 dirac equation
- NT2 klein-gordon equation
- NT2 schrodinger equation
- RT cauchy problem
- RT dirichlet problem

**PARTIAL MOLAL VOLUME**

INIS: 2000-04-12; ETDE: 1975-09-11

Partial molal volume is the change in volume of a solution which would be brought about by

the addition of one mole of solute to such a large amount of solution that the composition of the solution remains essentially unchanged.

- RT thermodynamic properties

**PARTIAL OXIDATION PROCESSES**

2000-04-12

- BT1 chemical reactions
- BT1 thermochemical processes
- RT autothermal reformer processes
- RT hydrocarbons
- RT hydrogen production
- RT shell gasification process

**PARTIAL PRESSURE**

INIS: 1985-07-23; ETDE: 1981-11-10

The pressure that would be exerted by one component of a mixture of gases if it were present alone in a container.

- \*BT1 thermodynamic properties
- RT dissolved gases

**PARTIAL WAVES**

- NT1 d waves
- NT1 f waves
- NT1 p waves
- NT1 s waves
- RT angular momentum
- RT cdd poles
- RT dispersion relations
- RT linear absorption models
- RT n-d method
- RT omnes-muskhelishvili method
- RT phase shift
- RT quantum mechanics
- RT scattering
- RT scattering amplitudes

**PARTICLE BEAM FUSION ACCELERATOR**

INIS: 1999-01-20; ETDE: 1980-03-04

UF *pbfa*

- BT1 accelerators
- RT electron beam fusion accelerator
- RT inertial confinement
- RT ion beam fusion reactors

**particle-beam weapons**

INIS: 2000-04-12; ETDE: 1981-08-21

- USE directed-energy weapons

**PARTICLE BEAMS**

- BT1 beams
- NT1 hyperon beams
- NT2 lambda particle beams
- NT2 sigma particle beams
- NT1 lepton beams
- NT2 electron beams
- NT2 muon beams
- NT2 neutrino beams
- NT3 antineutrino beams
- NT2 positron beams
- NT1 meson beams
- NT2 eta meson beams
- NT2 kaon beams
- NT2 pion beams
- NT1 nucleon beams
- NT2 neutron beams
- NT2 proton beams
- RT beam neutralization
- RT directed-energy weapons
- RT ion beams
- RT photon beams
- RT pomeranchuk theorem
- RT q-shift

**PARTICLE BOOSTERS**

First stage of a multistage accelerator.

- UF *boosters (particle)*
- RT accelerators
- RT beam injection



**PARTICLE-CORE COUPLING MODEL***INIS: 1977-01-26; ETDE: 1977-04-13**UF particle-core model**UF particle-rotor model**\*BT1 nuclear models**RT coupling**RT nuclear structure***particle-core model***1984-04-04**(Prior to July 1985, this was a valid ETDE descriptor.)**USE particle-core coupling model***PARTICLE DECAY***SF disintegration (nuclear particles)**BT1 decay**NT1 electromagnetic particle decay**NT1 hadronic particle decay**NT1 radiative decay**NT1 weak particle decay**NT2 leptonic decay**NT2 semileptonic decay**NT2 weak hadronic decay**RT multiple production**RT particle production***PARTICLE DISCRIMINATION***Particle or radiation discrimination in a mixed field.**BT1 particle identification**RT measuring methods**RT radiation detection**RT resolution***PARTICLE-HOLE MODEL***\*BT1 nuclear models**RT aligned coupling scheme**RT weak-coupling model***PARTICLE IDENTIFICATION***NT1 particle discrimination***particle-induced x-ray emission analysis***INIS: 2000-04-12; ETDE: 1978-08-07**USE x-ray emission analysis***PARTICLE INFLUX***1995-07-03**UF influx (particles)**RT particle losses**RT plasma impurities**RT thermonuclear fuels**RT wall effects***PARTICLE INTERACTIONS***BT1 interactions**NT1 annihilation**NT1 charged-current interactions**NT1 coherent production**NT1 electron-quark interactions**NT1 electroproduction**NT1 exclusive interactions**NT2 semi-exclusive interactions**NT1 gluon-gluon interactions**NT1 hadron-hadron interactions**NT2 baryon-baryon interactions**NT3 hyperon-hyperon interactions**NT3 nucleon-antinucleon interactions**NT4 antiproton-neutron interactions**NT4 neutron-antineutron interactions**NT4 proton-antineutron interactions**NT4 proton-antiproton interactions**NT3 nucleon-hyperon interactions**NT3 nucleon-nucleon interactions**NT4 neutron-neutron interactions**NT4 proton-nucleon interactions**NT5 proton-neutron interactions**NT5 proton-proton interactions**NT2 meson-baryon interactions**NT3 meson-hyperon interactions**NT4 kaon-hyperon interactions**NT4 pion-hyperon interactions**NT3 meson-nucleon interactions**NT4 kaon-nucleon interactions**NT5 kaon-neutron interactions**NT6 kaon minus-neutron interactions**NT6 kaon neutral-neutron interactions**NT6 kaon plus-neutron interactions**NT5 kaon-proton interactions**NT6 kaon minus-proton interactions**NT6 kaon neutral-proton interactions**NT6 kaon plus-proton interactions**NT4 pion-nucleon interactions**NT5 pion-neutron interactions**NT6 pion minus-neutron interactions**NT6 pion neutral-proton interactions**NT6 pion plus-proton interactions**NT4 pion-nucleon interactions**NT5 pion-neutron interactions**NT6 pion minus-neutron interactions**NT6 pion neutral-neutron interactions**NT5 pion-proton interactions**NT6 pion minus-proton interactions**NT6 pion plus-proton interactions**NT2 meson-meson interactions**NT3 kaon-kaon interactions**NT3 pion-kaon interactions**NT3 pion-pion interactions**NT1 inclusive interactions**NT2 semi-inclusive interactions**NT1 incoherent production**NT1 lepton-hadron interactions**NT2 lepton-baryon interactions**NT3 lepton-nucleon interactions**NT4 deep inelastic scattering**NT4 electron-nucleon interactions**NT5 electron-neutron interactions**NT5 electron-proton interactions**NT4 lepton-neutron interactions**NT5 antilepton-neutron interactions**NT6 antineutrino-neutron interactions**NT4 lepton-proton interactions**NT5 antilepton-proton interactions**NT6 antineutrino-proton interactions**NT4 muon-nucleon interactions**NT5 muon-neutron interactions**NT5 muon-proton interactions**NT4 neutrino-nucleon interactions**NT5 antineutrino-nucleon interactions**NT6 antineutrino-neutron interactions**NT6 antineutrino-proton interactions**NT4 muon-nucleon interactions**NT5 muon-neutron interactions**NT5 muon-proton interactions**NT4 neutrino-nucleon interactions**NT5 antineutrino-nucleon interactions**NT6 antineutrino-neutron interactions**NT6 antineutrino-proton interactions**NT5 neutrino-neutron interactions**NT6 antineutrino-neutron interactions**NT5 neutrino-proton interactions**NT6 antineutrino-proton interactions**NT2 lepton-meson interactions**NT3 electron-meson interactions**NT4 electron-pion interactions**NT3 muon-meson interactions**NT3 neutrino-meson interactions**NT1 lepton-lepton interactions**NT2 electron-electron interactions**NT2 electron-muon interactions**NT2 electron-positron interactions**NT2 muon-muon interactions**NT2 neutrino-electron interactions**NT3 antineutrino-electron interactions**NT2 neutrino-muon interactions**NT2 neutrino-neutrino interactions**NT2 positron-positron interactions**NT1 neutral-current interactions**NT1 photon-hadron interactions**NT2 photon-baryon interactions**NT3 photon-hyperon interactions**NT3 photon-nucleon interactions**NT4 photon-neutron interactions**NT4 photon-proton interactions**NT2 photon-meson interactions**NT1 photon-lepton interactions**NT2 photon-electron interactions**NT2 photon-muon interactions**NT2 photon-neutrino interactions**NT1 photon-photon interactions**NT1 photoproduction**NT2 primakoff effect**NT1 quark-antiquark interactions**NT1 quark-gluon interactions**NT1 quark-hadron interactions**NT1 quark-quark interactions**RT centauro-type events**RT coherent tube model**RT four momentum transfer**RT longitudinal momentum**RT m-theory**RT morrison rule**RT multiple production**RT particle kinematics**RT particle production**RT polarized products**RT s channel**RT straight-line path approximation**RT string models**RT t channel**RT transverse energy**RT transverse momentum**RT u channel***PARTICLE KINEMATICS***UF kinematics (particle)**RT angular correlation**RT collisions**RT conservation laws**RT decay**RT distribution**RT equations of motion**RT particle interactions**RT particle rapidity***PARTICLE LOSSES***INIS: 1995-07-03; ETDE: 1983-03-24**BT1 losses**RT energy losses**RT particle influx**RT plasma confinement**RT plasma disruption***PARTICLE MOBILITY***BT1 mobility**NT1 electron mobility**NT1 ion mobility***PARTICLE MODELS***UF models (particle)**BT1 mathematical models**NT1 coherent tube model**NT1 composite models**NT2 bootstrap model**NT2 cim model**NT2 quark model**NT3 bag model**NT3 color model**NT3 flavor model**NT3 string models**NT4 superstring models**NT1 correlated-particle models**NT1 diffraction models*

**NT1** dual absorption model  
**NT1** extended particle model  
**NT2** bag model  
**NT2** string models  
**NT3** superstring models  
**NT1** feynman gas model  
**NT1** fireball model  
**NT1** gluon model  
**NT1** hard collision models  
**NT1** higgs model  
**NT1** isobar model  
**NT1** jet model  
**NT1** lee model  
**NT1** linear absorption models  
**NT1** nova model  
**NT1** octet model  
**NT1** peripheral models  
**NT2** baryon-exchange models  
**NT2** boson-exchange models  
**NT3** obe model  
**NT4** ope model  
**NT5** electric born model  
**NT3** sigma model  
**NT2** multiperipheral model  
**NT3** cluster emission model  
**NT4** space-time model  
**NT1** strong-coupling model  
**NT1** tensor dominance model  
**NT1** thermodynamic model  
**NT2** hydrodynamic model  
**NT1** uncorrelated-particle model  
**NT1** unified gauge models  
**NT2** grand unified theory  
**NT3** standard model  
**NT2** weinberg-salam gauge model  
**NT1** van hove model  
**NT1** vector dominance model  
**NT1** veneziano model  
**NT2** dual resonance model  
**RT** branes  
**RT** harmonic oscillator models  
**RT** leading particles  
**RT** limiting fragmentation  
**RT** m-theory  
**RT** optical models  
**RT** particle multiplets  
**RT** particle structure  
**RT** statistical models  
**RT** structure functions

**PARTICLE MULTIPLETS**

**BT1** multiplets  
**NT1** baryon decuplets  
**NT1** baryon octets  
**NT1** meson nonets  
**NT1** meson octets  
**RT** okubo mass formula  
**RT** particle models  
**RT** spectra

**PARTICLE PRODUCTION**

**UF** cumulative effect  
**UF** diffractive dissociation  
**UF** production (particle)  
**UF** production mechanisms (particle)  
**NT1** coherent production  
**NT1** electroproduction  
**NT1** incoherent production  
**NT1** multiple production  
**NT2** pionization  
**NT1** pair production  
**NT2** internal pair production  
**NT1** photoproduction  
**NT2** primakoff effect  
**RT** blakenbecker-sugar equations  
**RT** hydrodynamic model  
**RT** leading particles  
**RT** mixing ratio  
**RT** particle decay  
**RT** particle interactions

**RT** regeneration

**PARTICLE PROPERTIES**

1996-07-18

Use only for data compilations or papers of a similar broad nature; otherwise use the specific terms listed below.

**UF** paracharge  
**NT1** chirality  
**NT1** form factors  
**NT2** dirac form factors  
**NT2** electromagnetic form factors  
**NT2** pauli form factors  
**NT1** g parity  
**NT1** helicity  
**NT1** hypercharge  
**NT1** isospin  
**NT1** mass difference  
**NT1** parity  
**NT1** particle radii  
**NT1** particle rapidity  
**NT1** particle widths  
**NT1** spin  
**NT1** strangeness  
**RT** lifetime  
**RT** limiting values  
**RT** quantum numbers  
**RT** spin orientation

**PARTICLE RADII**

For quantum objects only; otherwise use

**PARTICLE SIZE**.

**UF** charge radius (particle)  
**UF** mass radius (particle)  
**BT1** particle properties  
**RT** nuclear radii  
**RT** particle structure

**PARTICLE RAPIDITY**

Defined as  $(1/2)\ln((E+p)/(E-p))$ ; widely used in high energy physics.

**UF** rapidity  
**BT1** particle properties  
**RT** kinetic energy  
**RT** longitudinal momentum  
**RT** particle kinematics  
**RT** scale invariance

**PARTICLE RESUSPENSION**

INIS: 1977-09-06; ETDE: 1976-07-07

**UF** resuspension  
**UF** resuspension (particles)  
**RT** aerodynamics  
**RT** aerosols  
**RT** air pollution  
**RT** chemical effluents  
**RT** diffusion  
**RT** dispersions  
**RT** dusts  
**RT** earth crust  
**RT** fallout  
**RT** radioactive aerosols  
**RT** radioactive effluents  
**RT** radionuclide migration  
**RT** surface air  
**RT** wind

**particle-rotor model**

INIS: 1984-04-04; ETDE: 2002-04-26

**USE** particle-core coupling model

**PARTICLE SIZE**

For quantum objects see **PARTICLE RADII**.

**BT1** size  
**RT** aerosols  
**RT** agglomeration  
**RT** ceramography  
**RT** colloids  
**RT** dispersions  
**RT** droplets  
**RT** dusts

**RT** elutriation  
**RT** microspheres  
**RT** particle size classifiers  
**RT** particles  
**RT** powders

**PARTICLE SIZE CLASSIFIERS**

INIS: 1999-09-08; ETDE: 1977-03-08

**BT1** equipment  
**RT** classification  
**RT** particle size  
**RT** screens  
**RT** separation processes  
**RT** sorting  
**RT** trommels

**PARTICLE SOURCES**

**BT1** radiation sources  
**NT1** alpha sources  
**NT1** antiproton sources  
**NT1** beta sources  
**NT1** deuteron sources  
**NT1** electron sources  
**NT2** pierce electron guns  
**NT1** neutron sources  
**NT2** neutron generators  
**NT2** nius facility  
**NT1** positron sources  
**NT1** proton sources  
**RT** ion sources

**PARTICLE STRUCTURE**

1996-06-26

(Prior to June 1996 BACH-TAMAID THEORY was a valid ETDE descriptor.)

**SF** bach-tamaid theory  
**RT** emc effect  
**RT** landau quasi particles  
**RT** particle models  
**RT** particle radii  
**RT** string models  
**RT** structure functions  
**RT** superstring models

**PARTICLE TRACKS**

**UF** prongs  
**UF** tracks  
**NT1** fission tracks  
**RT** dielectric track detectors  
**RT** etching  
**RT** image scanners  
**RT** particles  
**RT** pattern recognition  
**RT** trajectories

**PARTICLE WIDTHS**

**BT1** particle properties  
**RT** lifetime

**PARTICLES**

When appropriate, see the more specific descriptors listed under **CHARGED PARTICLES**, **ELEMENTARY PARTICLES**, and **QUASIPARTICLES**.

**UF** fallout particulates  
**UF** fragments (particles)  
**UF** radioactive particulates  
**NT1** droplets  
**NT1** interstellar grains  
**NT1** particulates  
**NT2** total suspended particulates  
**RT** aerosols  
**RT** colloids  
**RT** condensation nuclei  
**RT** dispersions  
**RT** dusts  
**RT** elutriation  
**RT** granular materials  
**RT** micellar systems  
**RT** particle size  
**RT** particle tracks

RT powders  
 RT sedimentation  
 RT virial theorem  
 RT viruses

**particles (fuel)**

USE fuel particles

**PARTICULATES**

INIS: 1991-08-14; ETDE: 1981-09-08  
 (Prior to August 1991, this concept was indexed to AEROSOLS and PARTICLES.)  
 UF airborne particles  
 UF airborne particulates  
 UF waterborne particles  
 UF waterborne particulates  
 BT1 particles  
 NT1 total suspended particulates  
 RT aerosols  
 RT air pollution  
 RT air pollution abatement  
 RT air pollution monitoring  
 RT ashes  
 RT dispersions  
 RT dusts  
 RT fly ash  
 RT water pollution

**PARTITION**

Not to be used in connection with ion exchange or ion exchange chromatography.  
 RT arrhenius equation  
 RT equilibrium  
 RT gas chromatography  
 RT solvent extraction

**partition chromatography**

USE chromatography

**PARTITION FUNCTIONS**

BT1 functions  
 RT statistical mechanics  
 RT thermodynamics

**parton model**

(This was a valid descriptor until March 2006.)  
 SEE gluon model  
 SEE quark model

**partons**

INIS: 1980-02-26; ETDE: 1980-03-29  
 (This was a valid descriptor from February 1980 to March 2006.)  
 SEE gluons  
 SEE quarks

**PARTURITION**

UF birth  
 RT oxytocin  
 RT pregnancy  
 RT progeny

**pas**

1996-10-23  
 Aminosalicyclic acid-para.  
 (Until October 1996 this was a valid descriptor.)  
 USE amino acids

**PASCAL**

INIS: 2000-04-12; ETDE: 1985-12-11  
 BT1 programming languages

**PASCHEN-BACK EFFECT**

RT fine structure  
 RT zeeman effect

**paschen curve**

USE paschen law

**PASCHEN LAW**

UF paschen curve

UF paschen minimum  
 RT breakdown  
 RT electric discharges  
 RT electric potential  
 RT gases  
 RT spark gaps

**PASCHEN LINES**

RT spectra

**paschen minimum**

USE paschen law

**PASCO BASIN**

INIS: 1992-06-04; ETDE: 1984-08-20  
 \*BT1 columbia river basin  
 RT hanford reservation  
 RT radioactive waste disposal  
 RT washington

**PASCOITE**

2000-04-12  
 \*BT1 oxide minerals  
 \*BT1 radioactive minerals  
 RT calcium oxides  
 RT vanadium oxides

**PASSAMAQUODDY POWER PLANT**

INIS: 2000-04-12; ETDE: 1975-11-11  
 \*BT1 tidal power plants

**passengers**

INIS: 2000-04-12; ETDE: 1978-04-05  
 USE occupants

**PASSIVATION**

RT corrosion protection

**PASSIVE SOLAR COOLING SYSTEMS**

INIS: 2000-04-12; ETDE: 1977-07-23  
 \*BT1 solar cooling systems  
 NT1 bead walls  
 NT1 drum walls  
 NT1 roof ponds  
 RT curtains  
 RT solar architecture

**PASSIVE SOLAR HEATING SYSTEMS**

INIS: 2000-05-08; ETDE: 1977-07-23  
 \*BT1 solar heating systems  
 NT1 bead walls  
 NT1 direct gain systems  
 NT1 drum walls  
 NT1 roof ponds  
 NT1 thermic diode solar panels  
 NT1 trombe walls  
 NT1 water walls  
 RT attached greenhouses  
 RT curtains  
 RT double envelope buildings  
 RT load collector ratio  
 RT solar air heaters  
 RT solar architecture

**PASSIVE SOLAR WATER HEATERS**

INIS: 2000-04-12; ETDE: 1981-01-09  
 \*BT1 solar water heaters  
 NT1 thermic diode solar panels  
 RT thermosyphon effect

**PASSIVITY**

RT corrosion  
 RT corrosion resistance

**PASTEURIZATION**

\*BT1 food processing  
 NT1 radication  
 RT preservation  
 RT sterilization

**PASTURES**

INIS: 1979-12-20; ETDE: 1979-05-31  
 RT cattle  
 RT forage  
 RT gramineae  
 RT rangelands

**PAT REACTOR**

2000-04-12  
 Land-based submarine prototype reactor.  
 UF prototype a terre  
 \*BT1 pwr type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors

**PATENT LAWS**

INIS: 1990-12-15; ETDE: 1978-03-08  
 (Prior to December 1990, this descriptor was spelled PATENT LAW.)  
 BT1 laws

**PATENTS**

Use only for items about patents, not for items which are patents.  
 BT1 document types  
 RT inventions  
 RT legal aspects  
 RT licensing  
 RT specifications

**patgas process**

INIS: 2000-04-12; ETDE: 1976-10-13  
 Coal gasification process to produce a fuel gas containing 36% hydrogen and 64% carbon monoxide at 1000 psig and 100 degrees F.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE coal gasification

**PATH INTEGRALS**

2003-07-24  
 BT1 integrals  
 NT1 feynman path integral

**PATHE GEOTHERMAL FIELD**

2000-04-12  
 BT1 geothermal fields  
 RT geothermal hot-water systems  
 RT mexico

**PATHFINDER REACTOR**

Northern States Power Co., Sioux Falls, South Dakota, USA. Decommissioned in 1967.  
 UF sioux falls pathfinder reactor  
 \*BT1 bwr type reactors

**PATHOGENESIS**

NT1 carcinogenesis  
 NT2 leukemogenesis  
 RT aids  
 RT diseases  
 RT pathogens  
 RT pathological changes

**PATHOGENS**

INIS: 1981-05-11; ETDE: 1979-05-25  
 Disease-producing agents, usually refers to living organisms.  
 RT anti-infective agents  
 RT disease vectors  
 RT diseases  
 RT fungi  
 RT microorganisms  
 RT pathogenesis  
 RT pathological changes

**PATHOLOGICAL CHANGES**

NT1 abscesses  
 NT1 allergy  
 NT1 ascites  
 NT1 atrophy

**NT1** biological shock  
**NT1** calcinosis  
**NT1** caries  
**NT1** chlorosis  
**NT1** cysts  
**NT1** edema  
**NT1** emphysema  
**NT1** epilation  
**NT1** fibrosis  
**NT1** fistulae  
**NT1** hemolysis  
**NT1** hemorrhage  
**NT1** hypertrophy  
**NT1** inflammation  
**NT1** jaundice  
**NT1** malformations  
**NT2** congenital malformations  
**NT3** downs syndrome  
**NT1** necrosis  
**NT2** gangrene  
**NT2** osteoradionecrosis  
**NT1** splenomegaly  
**NT1** ulcers  
*RT* diseases  
*RT* granulomas  
*RT* leukopenia  
*RT* pathogenesis  
*RT* pathogens  
*RT* pathology  
*RT* symptoms

**PATHOLOGY**

*RT* autopsy  
*RT* diseases  
*RT* medicine  
*RT* pathological changes

**PATIENTS**

*RT* human populations  
*RT* man  
*RT* medicine  
*RT* therapy

**PATTERN RECOGNITION**

*INIS: 1976-05-07; ETDE: 1975-12-16*  
*Identification of shapes and patterns without active human participation.*  
*UF* fingerprinting (oil spills)  
*UF* oil spill fingerprinting  
*RT* data processing  
*RT* diagrams  
*RT* display devices  
*RT* identification systems  
*RT* image scanners  
*RT* image tubes  
*RT* images  
*RT* particle tracks  
*RT* visibility

**PATTERSON METHOD**

**BT1** calculation methods  
*RT* crystallography  
*RT* diffraction methods

**pauli exclusion principle**

USE pauli principle

**PAULI FORM FACTORS**

\*BT1 form factors

**pauli matrices**

USE pauli spin operators

**PAULI PRINCIPLE**

*UF* exclusion principle  
*UF* pauli exclusion principle  
*RT* occupation number  
*RT* quantum mechanics

**PAULI SPIN OPERATORS**

*UF* pauli matrices  
 \*BT1 angular momentum operators

*RT* spin

**PAUZHETSK GEOTHERMAL FIELD**

2000-04-12  
**BT1** geothermal fields  
*RT* geothermal hot-water systems

**PAVEMENTS**

*INIS: 1992-05-18; ETDE: 1978-06-14*  
*RT* asphalts  
*RT* building materials  
*RT* concretes  
*RT* roads

**pavia triga-mk-2 reactor**

*INIS: 1984-06-21; ETDE: 2002-04-26*  
 USE triga-2-pavia reactor

**pawling research reactor**

USE prr reactor

**PAYBACK PERIOD**

*INIS: 1986-04-03; ETDE: 1978-03-03*  
*Time required for the cost savings from a new installation to equal the initial capital investment.*  
*RT* cost  
*RT* economics  
*RT* financial incentives  
*RT* investment  
*RT* life-cycle cost

**PBF REACTOR**

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1992; decommissioned.*  
*UF* national reactor testing station burst facility  
*UF* power burst facility usaec  
 \*BT1 pulsed reactors  
 \*BT1 tank type reactors

**pbfa**

*INIS: 1982-09-21; ETDE: 1980-03-04*  
 USE particle beam fusion accelerator

**PBI**

*UF* protein-bound iodine  
 \*BT1 organic iodine compounds  
 \*BT1 proteins  
*RT* blood chemistry  
*RT* blood-plasma clearance  
*RT* cpb  
*RT* hyperthyroidism  
*RT* hypothyroidism  
*RT* radiotherapy  
*RT* thyroid hormones

**PBR REACTOR**

*NASA, Lewis Research Center, Plum Brook Station, Sandusky, Ohio, USA. Shut down in 1973.*  
*UF* nasa-test reactor  
*UF* nasa-tr reactor  
*UF* plum brook nasa-tr  
*UF* plum brook reactor facility  
 \*BT1 enriched uranium reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**PBX DEVICES**

*INIS: 1988-11-16; ETDE: 1983-10-11*  
*A modification of the PDX device with a rearrangement of the divertor coils.*  
*UF* princeton beta experiment  
 \*BT1 tokamak devices  
*RT* pdx devices  
*RT* poloidal field divertors

**pca**

USE polar-cap absorption

**pca-lasl facility**

*INIS: 2000-04-12; ETDE: 1977-04-12*  
 USE plasma core assembly

**pca-ornl reactor**

USE ornl-pca reactor

**PCAC THEORY**

*UF* partial conservation axial currents  
*RT* axial-vector currents  
*RT* current algebra

**pcb**

*INIS: 2000-04-12; ETDE: 1980-11-12*  
*Polychlorinated biphenyl.*  
 USE polychlorinated biphenyls

**pcb (polychlorinated biphenyl)**

*ETDE: 2002-04-26*  
 USE polychlorinated biphenyls

**pcm accidents**

USE power-cooling-mismatch accidents

**PCOTPL**

*Paris Convention on Third Party Liability.*  
*UF* liability conv on third party, paris  
*UF* paris convention-third party liability  
*UF* third party liability convention, paris  
 \*BT1 international agreements  
*RT* bcstpc  
*RT* civil liability  
*RT* liabilities  
*RT* nuclear liability

**pcr**

1994-06-27  
 USE polymerase chain reaction

**PCTR REACTOR**

*Battelle Memorial Institute, Richland, Washington, USA. Shut down in 1972.*  
*UF* physical constants test reactor  
*UF* richland physical constants test reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**PCV SYSTEMS**

*INIS: 2000-04-12; ETDE: 1979-03-05*  
*UF* positive crankcase ventilation systems  
 \*BT1 pollution control equipment  
*RT* automobiles  
*RT* internal combustion engines

**PCVC THEORY**

*UF* partial conservation vector current  
*RT* current algebra  
*RT* vector currents

**PDP COMPUTERS**

\*BT1 dec computers

**PDP REACTOR**

*Savannah River Plant, Aiken, South Carolina, USA. Shut down in 1979.*  
*UF* process development pile  
*UF* savannah river process development reactor  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 zero power reactors  
*RT* enriched uranium reactors  
*RT* natural uranium reactors

**pdu**

INIS: 2000-04-12; ETDE: 1976-11-17  
USE process development units

**PDX DEVICES**

INIS: 1978-07-03; ETDE: 1977-11-28  
UF poloidal divertor experiment  
\*BT1 tokamak devices  
RT pbx devices  
RT poloidal field divertors

**pe-16**

INIS: 1975-08-20; ETDE: 2002-04-26  
USE alloy-ni43fe33cr16mo3

**pea plant**

USE pisum

**PEACE RIVER**

INIS: 1992-06-04; ETDE: 1975-11-28  
\*BT1 rivers  
RT alberta  
RT british columbia

**PEACE RIVER DEPOSIT**

1992-06-04  
\*BT1 oil sand deposits  
RT alberta  
RT canada  
RT oil sands

**PEACH BOTTOM-1 REACTOR**

Philadelphia Electric Co., Delta,  
Pennsylvania, USA. Shut down in 1974.  
UF htgr peach bottom reactor  
\*BT1 enriched uranium reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**PEACH BOTTOM-2 REACTOR**

Exelon Generation Co., LLC, Delta,  
Pennsylvania, USA.  
\*BT1 bwr type reactors

**PEACH BOTTOM-3 REACTOR**

Exelon Generation Co., LLC, Delta,  
Pennsylvania, USA.  
\*BT1 bwr type reactors

**PEACHES**

\*BT1 fruits  
RT fruit trees  
RT rosaceae

**PEAK LOAD**

INIS: 1982-12-03; ETDE: 1979-09-06  
Maximum instantaneous load or maximum  
average load over a designated interval of  
time.  
UF peak power  
RT electric utilities  
RT load analysis  
RT load management  
RT power demand

**PEAK-LOAD PRICING**

INIS: 1984-04-04; ETDE: 1976-03-22  
BT1 prices  
RT electric power  
RT load management  
RT off-peak power  
RT power meters  
RT public utilities  
RT time-of-use pricing

**peak power**

INIS: 2000-04-12; ETDE: 1979-09-06  
USE peak load

**PEAKING POWER PLANTS**

INIS: 1995-02-27; ETDE: 1979-02-27  
BT1 power plants  
NT1 compressed air storage power plants  
NT1 pumped storage power plants  
RT capacitive energy storage equipment  
RT compressed air energy storage  
equipment  
RT gas turbine power plants  
RT hydroelectric power plants  
RT load management  
RT magnetic energy storage equipment  
RT off-peak energy storage  
RT thermal energy storage equipment  
RT thermal power plants

**PEAKS**

NT1 escape peaks  
RT pulse rise time  
RT transients

**PEANUT OIL**

\*BT1 triglycerides  
\*BT1 vegetable oils

**PEANUTS**

UF groundnuts  
BT1 seeds  
RT leguminosae  
RT proteins

**pearl pulsations**

USE pulsations

**pearl spar**

INIS: 2000-04-12; ETDE: 1976-03-31  
SEE ankerite  
SEE dolomite

**PEARLITE**

An aggregate in steel of ferrite and cementite.  
UF perlite (iron-carbon alloy)  
RT cast iron  
RT cementite  
RT ferrite  
RT steels

**PEARS**

\*BT1 fruits  
RT rosaceae

**PEAS**

BT1 seeds  
\*BT1 vegetables  
RT pisum

**PEAT**

\*BT1 fossil fuels  
\*BT1 organic matter  
\*BT1 solid fuels  
RT coal  
RT soils

**PEATGAS PROCESS**

INIS: 2000-04-12; ETDE: 1978-08-07  
Dilute-phase, concurrent short-residence time  
hydrogasification and fluidized-bed  
nonslagging char gasification.  
\*BT1 coal gasification  
BT1 sng processes

**peatlands**

INIS: 2000-04-12; ETDE: 1983-01-21  
USE wetlands

**PEBBLE BED REACTORS**

\*BT1 gas cooled reactors  
\*BT1 solid homogeneous reactors  
NT1 avr reactor  
NT1 thtr-300 reactor  
NT1 vg-400 reactor  
NT1 vgr-50 reactor

**PEBBLE SPRINGS-1 REACTOR**

Portland General Electric Co., Arlington,  
Oregon, USA. Canceled in 1982 before  
construction began.  
\*BT1 pwr type reactors

**PEBBLE SPRINGS-2 REACTOR**

Portland General Electric Co., Arlington,  
Oregon, USA. Canceled in 1982 before  
construction began.  
\*BT1 pwr type reactors

**PEC BRASIMONE REACTOR**

UF brasimone pec reactor  
\*BT1 fbr type reactors  
\*BT1 power reactors

**PECAN TREES**

INIS: 1992-01-10; ETDE: 1979-05-31  
\*BT1 magnoliopsida  
\*BT1 trees

**PECTINS**

\*BT1 blood substitutes  
\*BT1 polysaccharides  
RT galacturonic acid  
RT glucuronic acid

**peculiar a-stars**

USE magnetic stars

**PEDIATRICS**

BT1 medicine  
RT children  
RT congenital malformations

**peening**

USE shot peening

**pegase critical experiments**

USE peggy reactor

**PEGASE REACTOR**

Cadarache Nuclear Research Center, France.  
UF cadarache fuel element testing  
reactor  
\*BT1 enriched uranium reactors  
\*BT1 tank type reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**PEGGY REACTOR**

UF pegase critical experiments  
\*BT1 enriched uranium reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors  
\*BT1 zero power reactors

**PEGMATITES**

Exceptionally coarse grained igneous rocks,  
with interlocking crystals, usually found as  
irregular dikes, lenses, or veins, esp. at the  
margins of batholiths.  
\*BT1 plutonic rocks  
RT feldspars  
RT granites  
RT mica  
RT xenotime

**PEIERLS METHOD**

UF kapur-peierls method  
UF wigner method  
RT bremsstrahlung  
RT compound nuclei  
RT cross sections  
RT photoneutrons

**PEIERLS-NABARRO FORCE**

RT crystal structure  
RT dislocations

**pelargonic acid**

USE nonanoic acid

**PELINDABA TREATY**

1999-01-26

*Treaty for the prohibition of nuclear weapons in Africa.*

BT1 treaties

RT arms control

RT nuclear weapons

**PELINDUNA REACTOR**

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 zero power reactors

**PELLET INJECTION**

1983-03-15

UF injection (pellets)

RT fuel feeding systems

RT fuel pellets

RT thermonuclear fuels

RT thermonuclear reactor fueling

**PELLETIZING**

INIS: 1981-02-27; ETDE: 1975-10-01

\*BT1 molding

RT agglomeration

RT breeding pellets

RT briquetting

RT compacting

RT fuel pellets

RT moderator pellets

RT waste pellets

**PELLETRON ACCELERATORS**

INIS: 1979-12-20; ETDE: 1980-01-24

UF pelletrons

\*BT1 electrostatic accelerators

NT1 5u pelletron accelerator

**pelletrons**

INIS: 2000-04-12; ETDE: 1979-08-09

(Prior to December 1980, this was a valid ETDE descriptor.)

USE pelletron accelerators

**PELLETS**

INIS: 2000-04-12; ETDE: 1976-10-13

UF wood pellets

NT1 absorber pellets

NT1 breeding pellets

NT1 fuel pellets

NT1 moderator pellets

NT1 waste pellets

**pellicularia**

INIS: 2000-04-12; ETDE: 1979-08-07

*Cellulase-producing fungus.*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE eumycota

**PELVIS**

1999-04-06

BT1 body

RT bladder

RT female genitals

RT gonads

RT rectum

**penalties**

INIS: 2000-04-12; ETDE: 1979-07-24

USE charges

**pendulums**

INIS: 2000-04-12; ETDE: 1976-02-19

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE mechanical vibrations

SEE oscillations

SEE time measurement

**PENELEC PROCESS**

2000-04-12

*A process for desulfurization of flue gas using V catalyst to oxidize sulfur dioxide to sulfur trioxide.*

\*BT1 desulfurization

RT sulfur

**penetrant inspection (liquid)**

USE liquid penetrant inspection

**PENETRATION DEPTH**

1978-11-24

*May be used in any field; in particular in the field of superconductivity it is the depth to which an external magnetic field penetrates a superconductor.*

RT ginzburg-landau theory

RT skin effect

RT superconductivity

**PENETRATORS**

INIS: 2000-04-12; ETDE: 1975-10-01

NT1 earth penetrators

NT2 subterrene penetrators

RT weapons

**PENETROMETERS**

1992-05-12

BT1 measuring instruments

**PENFOLD-LEISS METHOD**

RT bremsstrahlung

**PENICILLAMINE**

UF mercaptoaminoisovaleric acid

UF mercaptovaline

\*BT1 amino acids

BT1 chelating agents

\*BT1 radioprotective substances

\*BT1 thiols

**PENICILLIN**

\*BT1 antibiotics

**PENICILLIUM**

\*BT1 eumycota

**PENLY-1 REACTOR**

INIS: 1984-07-23; ETDE: 1984-09-05

\*BT1 pwr type reactors

**PENNING DISCHARGES**

UF pig discharges

BT1 electric discharges

RT penning ion sources

RT sputter-ion pumps

**PENNING EFFECT**

RT ionization

**penning gages**

USE philips gages

**PENNING ION SOURCES**

UF pig ion sources

BT1 ion sources

RT penning discharges

**PENNSYLVANIA**

\*BT1 usa

NT1 pittsburgh

RT allegheny river

RT bettis

RT delaware river

RT monongahela river basin

RT ohio river

RT potomac river basin

RT susquehanna river

**pennsylvania state triga reactor**

INIS: 1993-11-09; ETDE: 2002-04-26

USE pstr reactor

**pennsylvania state university***research reactor*

1993-11-09

USE pstr reactor

**pennsylvanian period**

INIS: 1992-05-22; ETDE: 1977-10-19

(Prior to April 1990 this was a valid ETDE descriptor.)

USE carboniferous period

**penrose twistor theory**

INIS: 2000-04-12; ETDE: 1975-08-19

USE twistor theory

**PENSTOCKS**

INIS: 1992-10-01; ETDE: 1976-03-11

\*BT1 pipes

RT flow regulators

RT hydraulic turbines

RT hydraulics

RT hydroelectric power plants

**PENTACENE**

INIS: 2000-04-12; ETDE: 1985-09-23

UF 2,3,4,7-dibenzoanthracene

\*BT1 condensed aromatics

\*BT1 hydrocarbons

**pentacyn**

INIS: 2000-04-12; ETDE: 1978-04-06

(Prior to January 1995, this was a valid ETDE descriptor.)

USE radioprotective substances

**PENTADIENES**

2000-05-04

\*BT1 dienes

**pentaerythritol tetranitrate**

USE petn

**PENTAGONAL LATTICES**

2002-09-23

\*BT1 crystal lattices

**pentamethylenediamine**

USE cadaverine

**pentamethyleneimines**

USE piperidines

**PENTANE**

\*BT1 alkanes

**pentanedione (2,3)**

ETDE: 2002-04-26

USE 2-3-pentanedione

**pentanoic acid**

USE valeric acid

**PENTANOLS**

UF amyl alcohols

UF pentyl alcohols

\*BT1 alcohols

**PENTENES**

\*BT1 alkenes

**pentobarbital**

ETDE: 1981-04-20  
(Prior to October 1982, this was a valid ETDE descriptor.)  
USE nembutal

**PENTOSEs**

\*BT1 monosaccharides  
NT1 arabinose  
NT1 deoxyribose  
NT1 ribose  
NT1 ribulose  
NT1 xylose  
RT ribosides

**PENTOSYL TRANSFERASEs**

INIS: 2000-04-12; ETDE: 1981-06-13  
Code number 2.4.2.  
\*BT1 glycosyl transferases  
NT1 hypoxanthine phosphoribosyltransferase

**pentothal**

1996-10-23  
(Prior to March 1997 THIO PENTAL was used for this concept in ETDE.)  
USE barbiturates  
USE organic sulfur compounds

**pentyl alcohols**

USE pentanols

**PENTYL RADICALs**

UF *amyl radicals*  
\*BT1 alkyl radicals

**people**

INIS: 2000-04-12; ETDE: 1981-06-16  
USE human populations

**peoples democratic republic of yemen**

INIS: 2000-04-12; ETDE: 1980-08-12  
(Prior to November 1991 this was a valid ETDE descriptor.)  
USE yemen

**peoples republic of china**

INIS: 2000-04-12; ETDE: 1977-11-09  
USE china

**peos**

INIS: 1986-01-21; ETDE: 2002-04-26  
*Plasma Erosion Opening Switches.*  
USE plasma switches

**pep**

INIS: 2000-04-12; ETDE: 1984-10-10  
USE phosphoenolpyruvate

**PEP STORAGE RINGS**

UF *positron-electron-proton storage ring*  
BT1 storage rings  
NT1 epic storage ring

**PEPPERS**

*Fruit of Capsicum plant.*  
UF *paprika*  
UF *red peppers*  
\*BT1 vegetables  
RT capsicum  
RT spices

**pepr devices**

USE cathode ray tube digitizers

**PEPSIN**

Code numbers 3.4.23.1, 3.4.23.2, and 3.4.23.3.  
\*BT1 acid proteinases  
RT digestion  
RT stomach

**PEPTIDE HORMONES**

1995-07-03  
BT1 hormones  
\*BT1 proteins  
NT1 calcitonin  
NT1 erythropoietin  
NT1 gastrin  
NT1 glucagon  
NT1 insulin  
NT1 leptin  
NT1 parathormone  
NT1 pituitary hormones  
NT2 acth  
NT2 gonadotropins  
NT3 fsh  
NT3 hcg  
NT3 lth  
NT3 luteinizing hormone  
NT2 liberins  
NT3 lh-rh  
NT2 oxytocin  
NT2 sth  
NT2 tsh  
NT2 vasopressin  
NT1 secretin  
NT1 thyroid hormones  
NT2 diiodothyronine  
NT2 thyrocalcitonin  
NT2 thyroxine  
NT2 triiodothyronine  
NT1 thyronine  
NT1 trh  
RT growth factors  
RT lactogens

**PEPTIDE HYDROLASEs**

Code number 3.4.  
\*BT1 hydrolases  
NT1 acid proteinases  
NT2 pepsin  
NT1 aminopeptidases  
NT1 carboxypeptidases  
NT1 nonspecific peptidases  
NT2 renin  
NT2 urokinase  
NT1 serine proteinases  
NT2 chymotrypsin  
NT2 fibrinolysin  
NT2 kallikrein  
NT2 thrombin  
NT2 trypsin  
NT1 sh-proteinases  
NT2 cathepsins  
NT2 papain  
NT2 streptococcal proteinase  
RT proteolysis

**PEPTIDES**

\*BT1 proteins  
NT1 cyclosporine  
NT1 glycylglycine  
NT1 polypeptides  
NT2 calcitonin  
NT2 endorphins  
NT3 enkephalins  
NT2 endothelins  
NT2 gastrin  
NT2 glucagon  
NT2 glutathione  
NT2 kinins  
NT3 bradykinin  
NT2 leptin  
RT pyrogens

**PEPTONE**

\*BT1 proteins

**per (paraelectric resonance)**

USE paraelectric resonance

**PER CAPITA VALUES**

INIS: 2000-04-12; ETDE: 1981-12-21  
RT economic analysis  
RT energy consumption

**peratization procedure**

1996-07-18  
(Prior to March 1997 FEINBERG-PAIS THEORY was used for this concept in ETDE.)  
SEE leptons  
SEE weak interactions

**PERBROMATEs**

ETDE: 1975-09-11  
*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
\*BT1 bromine compounds  
BT1 oxygen compounds

**PERCHLORATEs**

1997-06-19  
\*BT1 chlorine compounds  
BT1 oxygen compounds  
NT1 aluminium perchlorates  
NT1 americium perchlorates  
NT1 ammonium perchlorates  
NT1 barium perchlorates  
NT1 cadmium perchlorates  
NT1 calcium perchlorates  
NT1 cerium perchlorates  
NT1 cesium perchlorates  
NT1 chromium perchlorates  
NT1 cobalt perchlorates  
NT1 copper perchlorates  
NT1 dysprosium perchlorates  
NT1 erbium perchlorates  
NT1 europium perchlorates  
NT1 gadolinium perchlorates  
NT1 hafnium perchlorates  
NT1 holmium perchlorates  
NT1 indium perchlorates  
NT1 iron perchlorates  
NT1 lanthanum perchlorates  
NT1 lead perchlorates  
NT1 lithium perchlorates  
NT1 lutetium perchlorates  
NT1 magnesium perchlorates  
NT1 manganese perchlorates  
NT1 mercury perchlorates  
NT1 neodymium perchlorates  
NT1 neptunium perchlorates  
NT1 plutonium perchlorates  
NT1 potassium perchlorates  
NT1 praseodymium perchlorates  
NT1 rubidium perchlorates  
NT1 samarium perchlorates  
NT1 scandium perchlorates  
NT1 silver perchlorates  
NT1 sodium perchlorates  
NT1 strontium perchlorates  
NT1 terbium perchlorates  
NT1 thallium perchlorates  
NT1 thorium perchlorates  
NT1 thulium perchlorates  
NT1 uranium perchlorates  
NT1 uranyl perchlorates  
NT1 ytterbium perchlorates  
NT1 yttrium perchlorates  
NT1 zinc perchlorates  
NT1 zirconium perchlorates  
RT perchloric acid

**PERCHLORIC ACID**

\*BT1 chlorine compounds  
\*BT1 inorganic acids  
BT1 oxygen compounds  
RT perchlorates

**PERCUS-YEVICK EQUATION**

- BT1 equations  
RT many-body problem

**PERCUSSIVE DRILLS**

INIS: 2000-04-12; ETDE: 1979-09-27

- \*BT1 drills  
RT drill bits

**PEREY-BUCK MODEL**

- UF *perey-wilkins model*  
\*BT1 nuclear models  
RT nonlocal potential  
RT optical models

***perey-wilkins model***

- USE *perey-buck model*

***perfect flow***

INIS: 1992-03-21; ETDE: 1992-05-22

- SEE incompressible flow  
SEE steady flow

***perforated pipe distributors***

INIS: 2000-04-12; ETDE: 1979-09-06

- USE spargers

**PERFORATION**

INIS: 1999-01-22; ETDE: 1981-05-18

- RT natural gas wells  
RT well completion  
RT wells

**PERFORMANCE**

1997-06-17

- UF *figure of merit*  
RT coefficient of performance  
RT efficiency  
RT errors  
RT f-chart  
RT feasibility studies  
RT heat rate  
RT performance testing  
RT productivity  
RT reliability  
RT resolution  
RT spectral response  
RT uses

**PERFORMANCE TESTING**

- BT1 testing  
RT bioassay  
RT certification  
RT federal test procedure  
RT inspection  
RT performance  
RT post-irradiation examination  
RT quality control

**PERFUSED ORGANS**

- \*BT1 organs  
RT perfused tissues

**PERFUSED TISSUES**

INIS: 1975-10-29; ETDE: 1975-12-16

- \*BT1 animal tissues  
RT perfused organs

***perhydroxyl radical***

INIS: 2000-04-12; ETDE: 1982-12-23

*Ho{sub 2}*

- USE hydroperoxy radicals

**PERICARDIUM**

INIS: 1980-09-12; ETDE: 1979-07-18

- \*BT1 heart  
\*BT1 serous membranes

**PERIDOTITES**

1983-09-01

- \*BT1 plutonic rocks  
NT1 kimberlites  
RT hornblende

- RT olivine  
RT silicate minerals

**PERINATAL IRRADIATION**

*A combination of prenatal and postnatal irradiation.*

- BT1 irradiation  
RT prenatal irradiation

***period (reactor)***

- USE reactor period

**PERIODATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 iodine compounds  
BT1 oxygen compounds  
RT periodic acid

**PERIODIC ACID**

- \*BT1 inorganic acids  
\*BT1 iodine compounds  
BT1 oxygen compounds  
RT periodates

***periodic functions***

2002-09-12

- USE functions  
USE periodicity

***periodic potentials***

2002-09-12

- USE periodicity  
USE potentials

**PERIODIC SYSTEM**

- UF *mendeleev periodic system*  
RT atomic number  
RT elements

**PERIODICITY**

- UF *periodic functions*  
UF *periodic potentials*  
BT1 variations  
RT functional analysis  
RT group theory  
RT measure theory  
RT modulation  
RT oscillations  
RT pulsations  
RT set theory  
RT topology

***periosteum***

- USE bone tissues

**PERIPHERAL COLLISIONS**

- \*BT1 strong interactions  
RT impact parameter

**PERIPHERAL MODELS**

- UF *exchange models*  
\*BT1 particle models  
NT1 baryon-exchange models  
NT1 boson-exchange models  
NT2 obe model  
NT3 ope model  
NT4 electric born model  
NT2 sigma model  
NT1 multiperipheral model  
NT2 cluster emission model  
NT3 space-time model

***periphyton***

INIS: 1993-07-12; ETDE: 1977-04-12

- USE aufwuchs

**PERISCOPES**

- BT1 optical systems  
RT hot cells  
RT hot labs

- RT remote handling

**PERITONEUM**

- \*BT1 serous membranes  
RT abdomen  
RT ascites  
RT gastrointestinal tract  
RT intraperitoneal injection  
RT liver  
RT mesentery  
RT peritonitis  
RT spleen

**PERITONITIS**

- \*BT1 digestive system diseases  
RT peritoneum  
RT symptoms

**PERKINS-1 REACTOR**

*Duke Power Co., Mocksville, North Carolina, USA. Canceled in 1982 before construction began.*

- \*BT1 pwr type reactors

**PERKINS-2 REACTOR**

*Duke Power Co., Mocksville, North Carolina, USA. Canceled in 1982 before construction began.*

- \*BT1 pwr type reactors

**PERKINS-3 REACTOR**

*Duke Power Co., Mocksville, North Carolina, USA. Canceled in 1982 before construction began.*

- \*BT1 pwr type reactors

**PERLITE**

INIS: 1999-03-05; ETDE: 1976-05-13

*Volcanic glass that has a concentric shelly structure, appears as if composed of concretions, is usually grayish and sometime spherulitic, and when expanded by heat forms a lightweight aggregate used especially in concrete and plaster.*

- \*BT1 volcanic rocks  
RT glass  
RT rhyolites  
RT trachytes

***perlite (iron-carbon alloy)***

INIS: 1978-11-24; ETDE: 2001-01-23

- USE perlite

**PERMAFROST**

INIS: 1992-07-21; ETDE: 1976-01-23

*Permanently frozen ground, occurring wherever the temperature remains below freezing for several years.*

- RT alaska oil pipeline  
RT alaskan north slope  
RT arctic regions  
RT soils

**PERMALLOY**

1996-11-13

UF *alloy-ni80fe16mo4*

UF *permalloy c*

- \*BT1 iron alloys  
\*BT1 nickel alloys

***permalloy c***

INIS: 1996-11-13; ETDE: 2002-04-26

- USE nickel base alloys  
USE permalloy

**PERMANENT MAGNETS**

- \*BT1 magnets  
RT magnetic properties

**PERMANGANATES**

*Specific compounds should be indexed by coordination of a descriptor of the form*



(CATION) COMPOUNDS and the above anion descriptor.

- UF potassium permanganates
- \*BT1 manganese compounds
- BT1 oxygen compounds
- RT manganese oxides

### PERMEABILITY

- UF collector properties
- UF collector properties (rocks)
- UF tight sands
- BT1 physical properties
- RT dialysis
- RT membranes
- RT osmosis
- RT plugging
- RT porosity

### permeability (magnetic)

- USE magnetic susceptibility

### permeability coefficient (fluid mechanics)

- INIS: 1993-11-09; ETDE: 1983-07-20
- USE hydraulic conductivity

### permeability damage

- INIS: 2000-04-12; ETDE: 1983-01-21
- USE formation damage

### permeability reduction

- INIS: 2000-04-12; ETDE: 1983-01-21
- USE formation damage

### PERMENDUR

- 1993-10-03
- \*BT1 alloy-co50fe50

### PERMIAN BASIN

- INIS: 2000-04-12; ETDE: 1984-02-10
- That portion of western Texas, eastern New Mexico, western Oklahoma, southwestern Kansas, and southeastern Colorado that is underlain by bedded salt deposits of Permian age.

- NT1 dalhart basin
- NT1 palo duro basin
- RT colorado
- RT kansas
- RT new mexico
- RT oklahoma
- RT radioactive waste disposal
- RT texas

### PERMIAN PERIOD

- INIS: 1992-04-14; ETDE: 1977-10-19
- UF rotliegende epoch
- SF appalachian orogeny
- \*BT1 paleozoic era

### permit applications

- INIS: 1996-02-12; ETDE: 1980-07-09
- (Prior to February 1996 this was a valid ETDE descriptor.)
- USE license applications

### permits

- INIS: 1984-04-04; ETDE: 1979-12-10
- (Prior to February 1996 this was a valid ETDE descriptor.)
- USE licenses

### PERMITTIVITY

- UF dielectric constant
- \*BT1 dielectric properties

### permutit (inorganic)

- USE inorganic ion exchangers

### permutit (organic)

- USE organic ion exchangers

### pernicious anemia

- USE anemias

### PEROVSKITE

- CaTiO/sub 3/.
- \*BT1 oxide minerals
- \*BT1 perovskites
- RT calcium oxides
- RT kimberlites
- RT synroc process
- RT titanium oxides

### perovskite crystal structure

- INIS: 1984-04-25; ETDE: 1984-05-23
- USE cubic lattices

### PEROVSKITES

- INIS: 1994-07-14; ETDE: 1976-09-28
- Minerals with a close-packed lattice and the general formula ABX/sub 3/ where A and B are metals and X is a nonmetal, usually O.
- BT1 minerals
- NT1 perovskite
- RT ferrimagnetic materials
- RT oxide minerals
- RT sodium tungsten bronze

### PEROX PROCESS

- 2000-04-12
- Method for removal of hydrogen sulfide from waste gases.
- \*BT1 desulfurization
- RT waste processing

### PEROXIDASES

- Code number 1.11.
- \*BT1 oxidoreductases
- NT1 catalase
- RT porphyria

### PEROXIDES

- 1996-11-13
- BT1 oxygen compounds
- NT1 benzoyl peroxide
- NT1 hydrogen peroxide
- NT1 plutonium peroxide
- NT1 uranium peroxide
- RT peroxyacetyl nitrate

### PEROXY RADICALS

- BT1 radicals

### PEROXYACETYL NITRATE

- INIS: 2000-04-12; ETDE: 1976-08-24
- \*BT1 nitrates
- \*BT1 nitric acid esters
- RT peroxides

### PERRHENATES

- Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.
- BT1 oxygen compounds
- \*BT1 rhenium compounds
- RT rhenium oxides

### PERRY-1 REACTOR

- FirstEnergy Nuclear Operating Co., North Perry, Ohio, USA.
- \*BT1 bwr type reactors

### PERRY-2 REACTOR

- Cleveland Electric Illuminating Co., North Perry, Ohio, USA. Canceled in 1994 after construction began (1974).
- \*BT1 bwr type reactors

### PERRYMAN-1 REACTOR

- INIS: 1978-01-16; ETDE: 1977-09-19
- Baltimore Gas and Electric Co., Perryman, Maryland, USA. Canceled in 1972 before construction began.
- \*BT1 enriched uranium reactors
- \*BT1 power reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

### PERRYMAN-2 REACTOR

- INIS: 1978-01-16; ETDE: 1977-09-19
- Baltimore Gas and Electric Co., Perryman, Maryland, USA. Canceled in 1972 before construction began.
- \*BT1 enriched uranium reactors
- \*BT1 power reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

### PERSIAN GULF

- 1992-06-04
- \*BT1 arabian sea
- NT1 strait of hormuz

### PERSONAL COMPUTERS

- INIS: 1994-06-27; ETDE: 1985-04-09
- (Until June 1994 this concept was indexed to MICROCOMPUTERS.)
- \*BT1 microcomputers
- RT data processing

### PERSONNEL

- 1996-05-14
- Studies of groups of persons employed in a particular field of endeavor. For studies on individuals in a group see also MAN.
- UF clerical personnel
- UF employees
- UF workers
- SF labor
- SF professional personnel
- SF senior executive service
- NT1 architects
- NT1 astronauts
- NT1 aviation personnel
- NT1 builders
- NT1 consultants
- NT1 contractor personnel
- NT1 craftsmen
- NT1 dial painters
- NT1 engineers
- NT1 medical personnel
- NT2 radiological personnel
- NT1 military personnel
- NT1 miners
- NT2 coal miners
- NT1 motor vehicle operators
- NT1 public officials
- NT2 state officials
- NT1 reactor operators
- NT1 scientific personnel
- NT1 security personnel
- RT alternative work schedules
- RT human factors
- RT human factors engineering
- RT human populations
- RT industrial medicine
- RT labor relations
- RT man
- RT man-machine systems
- RT management
- RT manpower
- RT medical surveillance
- RT occupational safety
- RT occupations
- RT personnel dosimetry
- RT personnel monitoring

RT safety  
 RT security violations  
 RT wages  
 RT work  
 RT working days

**PERSONNEL DOSIMETRY**

UF *personnel film dosimetry*  
 BT1 dosimetry  
 RT bubble dosimeters  
 RT external irradiation  
 RT occupations  
 RT personnel  
 RT personnel monitoring  
 RT thermoluminescent dosimeters

**personnel film dosimetry**

USE personnel dosimetry

**PERSONNEL MANAGEMENT**

INIS: 1992-08-12; ETDE: 1983-03-23

UF *accountability (personnel)*  
 SF *accountability*  
 SF *nepotism*  
 SF *sick leave*  
 BT1 management

**PERSONNEL MONITORING**

*To include medical surveillance of early and late radiation effects.*

UF *excretion analysis*  
 \*BT1 radiation monitoring  
 RT albedo-neutron dosimeters  
 RT medical surveillance  
 RT personnel  
 RT personnel dosimetry  
 RT radiation doses  
 RT radioactivity  
 RT radionuclide kinetics  
 RT whole-body counting

**PERSPEX**

\*BT1 plastics  
 \*BT1 polyacrylates

**PERSULFATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 oxygen compounds  
 BT1 sulfur compounds  
 RT persulfuric acid

**PERSULFURIC ACID**

BT1 oxygen compounds  
 BT1 sulfur compounds  
 RT persulfates  
 RT sulfuric acid

**PERT METHOD**

*Program Evaluation and Review Technique.*

UF *cpm*  
 UF *critical path method*  
 RT planning  
 RT schedules

**PERTECHNETATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 oxygen compounds  
 \*BT1 technetium compounds  
 RT technetium oxides

**PERTURBATION THEORY**

1996-07-08

(Prior to August 1996 RITCHIE-ELDRIDGE THEORY was a valid ETDE descriptor.)

UF *reductive perturbation method*  
 SF *ritchie-eldridge theory*

NT1 hsk procedure  
 RT adjoint flux  
 RT born approximation  
 RT brinkman-kramers approximation  
 RT mathematics  
 RT neutron importance function  
 RT neutron transport theory  
 RT p1-approximation  
 RT p2-approximation  
 RT p3-approximation  
 RT quantum mechanics  
 RT quasilinear problems  
 RT rayleigh-schroedinger formula  
 RT reactor kinetics  
 RT scattering

**perturbations**

USE disturbances

**PERTURBED ANGULAR CORRELATION**

\*BT1 angular correlation  
 NT1 differential pac  
 NT1 integral pac  
 RT nuclear electric moments  
 RT nuclear magnetic moments

**perturbed angular correlation (differential)**

INIS: 1993-11-09; ETDE: 2002-04-26

USE differential pac

**perturbed angular correlation (integral)**

INIS: 1993-11-09; ETDE: 2002-04-26

USE integral pac

**perturbed stationary states method**

USE pss method

**PERU**

BT1 developing countries  
 \*BT1 south america  
 RT amazon river  
 RT andes

**PERYLENE**

\*BT1 condensed aromatics

**PEST CONTROL**

1999-05-12

BT1 control  
 NT1 genetic control  
 NT1 pest eradication  
 RT agriculture  
 RT chemical attractants  
 RT insects  
 RT mites  
 RT parasites  
 RT pesticides  
 RT phosphines  
 RT quarantine  
 RT rodents  
 RT sterile insect release  
 RT sterile male technique

**PEST ERADICATION**

INIS: 1975-09-01; ETDE: 1975-10-01

\*BT1 pest control  
 RT insects  
 RT parasites

**PESTICIDES**

NT1 fumigants  
 NT1 fungicides  
 NT2 cycloheximide  
 NT1 herbicides  
 NT1 insecticides  
 NT2 aldrin  
 NT2 ddt  
 NT2 dieldrin

NT2 kepone  
 NT2 lindane  
 NT2 malathion  
 NT2 parathion  
 RT agriculture  
 RT disinfectants  
 RT disinfestation  
 RT ecosystems  
 RT grain disinfestation  
 RT mutagens  
 RT parasites  
 RT pest control  
 RT phosphines  
 RT pollutants  
 RT pollution

**pet scanning**

INIS: 1991-09-16; ETDE: 2001-01-23

USE positron computed tomography

**PETALITE**

INIS: 2000-04-12; ETDE: 1983-01-21

*A lithium aluminium silicate of unit formula occurring in pegmatites.*

\*BT1 silicate minerals  
 RT aluminium silicates  
 RT lithium silicates

**petawatt lasers**

INIS: 2003-08-15; ETDE: 2002-10-02

USE lasers  
 USE petawatt power range

**PETAWATT POWER RANGE**

INIS: 2003-08-15; ETDE: 2002-09-17

*From 10 exp 15 to 10 exp 18 W.*

UF *petawatt lasers*  
 BT1 power range  
 NT1 power range 01-10 pw  
 NT1 power range 10-100 pw  
 NT1 power range 100-1000 pw

**PETHIDINE**

UF *demerol*  
 UF *dolantal*  
 UF *meperidine*  
 \*BT1 analgesics  
 \*BT1 aromatics  
 \*BT1 monocarboxylic acids  
 \*BT1 narcotics  
 \*BT1 piperidines

**petit process**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE desulfurization

**PETN**

UF *pentaerythritol tetranitrate*  
 \*BT1 chemical explosives  
 \*BT1 nitrates  
 \*BT1 nitric acid esters

**PETRA STORAGE RING**

INIS: 1976-07-16; ETDE: 1976-09-15

*Positron-Elektron-Tandem-Ringbeschleuniger Anlage.*

BT1 storage rings

**petrochemical feedstocks**

INIS: 2000-04-12; ETDE: 1979-03-27

USE chemical feedstocks  
 USE petrochemicals

**PETROCHEMICAL PLANTS**

INIS: 1992-03-17; ETDE: 1977-08-24

\*BT1 chemical plants  
 RT petrochemicals  
 RT petroleum refineries

**PETROCHEMICALS**

1999-03-15

UF *petrochemical feedstocks*SF *chemicals*SF *coal chemicals*BT1 *petroleum products*NT1 *plastics*NT2 *aramids*NT2 *bakelite*NT2 *formvar*NT2 *lucite*NT2 *mylar*NT2 *nylon*NT2 *perspex*NT2 *plexiglas*NT2 *polystyrene*NT2 *polyurethanes*NT3 *halthane*NT2 *reinforced plastics*NT2 *tedlar*NT2 *teflon*NT2 *thermoplastics*NT1 *resins*RT *chemical feedstocks*RT *chemical plants*RT *petrochemical plants*RT *synthetic materials***PETROCHEMISTRY**BT1 *chemistry*RT *cracking*RT *mineralogy*RT *natural gas*RT *petroleum*RT *petroleum products***PETROGENESIS**

*A branch of petrology that deals with the origin and formation of rocks, esp. igneous rocks.*

(From August 1981 till March 1997

PARAGENESIS was a valid ETDE

descriptor.)

SF *paragenesis*\*BT1 *petrology*RT *diagenesis*RT *origin*RT *orogenesis*RT *rocks*RT *tectonics***PETROGRAPHY**

INIS: 1993-03-23; ETDE: 1976-12-15

BT1 *geology*RT *petrology***PETROLEUM***Limited to crude oil; see also COAL**LIQUIDS, SHALE OIL, etc.*UF *crude oil*UF *heavy oils*SF *mineral oil(s)*SF *petroleum marketing practices act*\*BT1 *fossil fuels*NT1 *petroleum fractions*NT2 *petroleum distillates*NT3 *gas oils*NT4 *diesel fuels*NT4 *fuel oils*NT5 *heating oils*NT5 *residual fuels*NT4 *kerosene*NT2 *petroleum residues*NT2 *refinery gases*NT1 *residual petroleum*NT1 *shale oil*NT2 *shale oil fractions*NT1 *sour crudes*RT *alaska oil pipeline*RT *deregulation*RT *distillation*RT *energy conservation and production act*RT *floating roof tanks*RT *fluidized bed hydrogenation process*RT *gas injection*RT *gas lifts*RT *gas recycle hydrogenation process*RT *hydraulic equipment*RT *hydrocarbons*RT *lightering*RT *maturation*RT *microemulsion flooding*RT *miscible-phase displacement*RT *oapec*RT *oil spills*RT *oil wells*RT *oil yields*RT *oils*RT *opec*RT *pad districts*RT *petrochemistry*RT *petroleum deposits*RT *petroleum industry*RT *petroleum refineries*RT *primary recovery*RT *road oils*RT *shell gasification process*RT *sng processes*RT *strategic petroleum reserve*RT *synthetic petroleum*RT *tanker ships*RT *waterflooding***petroleum administration for defense districts**

INIS: 2000-04-12; ETDE: 1979-09-27

USE *pad districts***petroleum coke**

INIS: 1991-10-07; ETDE: 1979-05-03

USE *coke*USE *petroleum products***petroleum cooperatives**

INIS: 2000-04-12; ETDE: 1993-07-09

USE *cooperatives*USE *petroleum industry***PETROLEUM DEPOSITS**

1991-08-14

BT1 *geologic deposits*\*BT1 *mineral resources*NT1 *gas condensate fields*NT1 *oil fields*NT1 *us naval petroleum reserves*RT *acidization*RT *anticlines*RT *associated gas*RT *geologic traps*RT *geophysical surveys*RT *petroleum*RT *petroleum geology*RT *powder river basin*RT *reserves*RT *seeps*RT *well logging equipment*RT *western us overthrust belt*RT *williston basin***PETROLEUM DISTILLATES**

INIS: 1992-04-01; ETDE: 1976-05-19

*Boiling point range 0-600 degrees c.*UF *middle distillates*BT1 *distillates*\*BT1 *petroleum fractions*NT1 *gas oils*NT2 *diesel fuels*NT2 *fuel oils*NT3 *heating oils*NT3 *residual fuels*NT2 *kerosene*RT *petroleum products*RT *road oils***petroleum ether**

INIS: 2000-04-12; ETDE: 1975-12-16

USE *ligroin***PETROLEUM FRACTIONS**

INIS: 1992-04-01; ETDE: 1977-09-19

*Hydrocarbon mixtures occurring in petroleum that can be characterized by specific physical properties such as boiling range, density and viscosity.*

\*BT1 *petroleum*NT1 *petroleum distillates*NT2 *gas oils*NT3 *diesel fuels*NT3 *fuel oils*NT4 *heating oils*NT4 *residual fuels*NT3 *kerosene*NT1 *petroleum residues*NT1 *refinery gases*RT *petroleum products***PETROLEUM GEOLOGY**

INIS: 1992-05-04; ETDE: 1979-03-28

BT1 *geology*RT *exploration*RT *natural gas deposits*RT *petroleum deposits***PETROLEUM INDUSTRY**

1995-04-06

UF *petroleum cooperatives*BT1 *industry*NT1 *lpg industry*RT *horizontal divestiture*RT *horizontal integration*RT *mineral industry*RT *petroleum*RT *petroleum products*RT *petroleum refineries*RT *resource exploitation*RT *vertical divestiture*RT *vertical integration*RT *windfall profits tax***petroleum marketing practices act**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to February 1995, this was a valid

ETDE descriptor.)

SEE *laws*SEE *marketing*SEE *petroleum***PETROLEUM PRODUCTS**UF *finished oils*UF *petroleum coke*NT1 *gas oils*NT2 *diesel fuels*NT2 *fuel oils*NT3 *heating oils*NT3 *residual fuels*NT2 *kerosene*NT1 *gasoline*NT2 *unleaded gasoline*NT1 *ligroin*NT1 *liquefied petroleum gases*NT1 *lubricating oils*NT1 *petrochemicals*NT2 *plastics*NT3 *aramids*NT3 *bakelite*NT3 *formvar*NT3 *lucite*NT3 *mylar*NT3 *nylon*NT3 *perspex*

- NT3 plexiglas
- NT3 polystyrene
- NT3 polyurethanes
  - NT4 halthane
- NT3 reinforced plastics
- NT3 tedlar
- NT3 teflon
- NT3 thermoplastics
- NT2 resins
- NT1 refinery gases
- NT1 unfinished oils
- RT naphtha
- RT oils
- RT petrochemistry
- RT petroleum distillates
- RT petroleum fractions
- RT petroleum industry
- RT petroleum refineries
- RT refining
- RT sng processes

**PETROLEUM REFINERIES**

- UF *bom refining districts*
- BT1 industrial plants
- RT activated sludge process
- RT distillation
- RT distillation equipment
- RT entitlements program
- RT petrochemical plants
- RT petroleum
- RT petroleum industry
- RT petroleum products
- RT refinery gases
- RT waste oil refineries

**PETROLEUM RESIDUES**

- 1992-04-01
- Boiling point over 593 degrees c; includes oil residues, residua.*
- UF liquid asphalt
- UF oil residues
- UF resid
- UF residual oils
- \*BT1 petroleum fractions
- RT residual fuels
- RT road oils

**petroleum stocks**

- INIS: 2000-04-12; ETDE: 1975-12-16
- USE inventories

**PETROLEUM SULFONATES**

- INIS: 2000-04-12; ETDE: 1976-08-04
- Mixtures of many surfactant compounds of the alkylaryl sulfonate type.*
- \*BT1 sulfonates
- \*BT1 sulfonic acid esters

**PETROLOGY**

- 2000-01-21
- That branch of geology dealing with the origin, occurrence, structure, and history of rocks, esp. igneous and metamorphic rocks.*
- BT1 geology
- NT1 lithology
- NT1 petrogenesis
- RT coalification
- RT lithotypes
- RT macerals
- RT petrography
- RT rocks

**PETROSIX PROCESS**

- 2000-04-12
- Process developed by Petrobras, Brazilian National Oil Company that is capable of handling oil shale fines; similar to gas combustion process except that an outside furnace is used for heating of recycle gas.*
- RT oil shales

**petrov-galerkin method**

- USE galerkin-petrov method

**pett**

- INIS: 2000-04-12; ETDE: 1980-06-06
- Positron Emission Transaxial Tomography.*
- USE positron computed tomography

**petten high flux reactor**

- USE hfr reactor

**petten low flux reactor**

- USE lfr reactor

**petten stek reactor**

- USE stek reactor

**PETULA TOKAMAK**

- INIS: 1975-11-11; ETDE: 1975-12-16
- \*BT1 tokamak devices

**PEV RANGE**

- INIS: 1977-01-26; ETDE: 1976-08-24
- From 10 exp 15 to 10 exp 18 eV.*
- BT1 energy range

**PEWEE-1 REACTOR**

- LASL, Los Alamos, New Mexico, USA.*
- \*BT1 hydrogen cooled reactors
- \*BT1 space propulsion reactors

**PEWEE-2 REACTOR**

- LASL, Los Alamos, New Mexico, USA.*
- \*BT1 hydrogen cooled reactors
- \*BT1 space propulsion reactors

**PEWEE-3 REACTOR**

- LASL, Los Alamos, New Mexico, USA.*
- \*BT1 hydrogen cooled reactors
- \*BT1 space propulsion reactors

**PEWEE-4 REACTOR**

- LASL, Los Alamos, New Mexico, USA.*
- \*BT1 hydrogen cooled reactors
- \*BT1 space propulsion reactors

**PF-1000 DEVICE**

- INIS: 1999-07-26; ETDE: 1999-09-03
- Plasma Focus Device, Andrzej Soltan Institute for Nuclear Studies, Poland.*
- \*BT1 plasma focus devices

**PFIRSCH-SCHLUETER REGIME**

- INIS: 1981-10-15; ETDE: 1979-01-30
- The transport regime in a tokamak plasma characterized by the mean free path shorter than the connection length. In this regime, the diffusion coefficient is q/sup 2/ times the classical value, where q >= 1 is the safety factor.*
- RT collisional plasma
- RT neoclassical transport theory
- RT stellarators
- RT tokamak devices

**PFR REACTOR**

- UF *dounreay prototype fast reactor*
- UF *prototype fast reactor dounreay*
- \*BT1 lmfr type reactors
- \*BT1 power reactors
- \*BT1 sodium cooled reactors
- RT enriched uranium reactors
- RT plutonium reactors

**PH VALUE**

- UF acidity
- UF neutralization (chemical)
- RT acid neutralizing capacity
- RT bases
- RT buffers
- RT inorganic acids
- RT liming
- RT nucleic acid denaturation

- RT organic acids
- RT protein denaturation

**ph'chromosome**

- USE philadelphia chromosome

**PHAEDRUS MIRROR DEVICES**

- INIS: 1989-02-24; ETDE: 1989-03-20
- \*BT1 tandem mirrors

**PHAEDRUS-T TOKAMAK**

- INIS: 1995-06-30; ETDE: 1995-07-03
- Univ. of Wisconsin, Madison, Wisconsin, USA.*
- \*BT1 tokamak devices

**phages**

- USE bacteriophages

**PHAGOCYTES**

- \*BT1 somatic cells
- NT1 macrophages
- RT leukocytes
- RT phagocytosis

**PHAGOCYTOSIS**

- RT amoeba
- RT cell constituents
- RT excretion
- RT immune reactions
- RT intracellular digestion
- RT macrophages
- RT phagocytes
- RT reticuloendothelial system

**PHANEROCHAETE**

- INIS: 1991-12-16; ETDE: 1979-03-29
- Ligninolytic fungus.*
- \*BT1 eumycota

**PHANTOMS**

- \*BT1 mockup
- RT biological models
- RT depth dose distributions
- RT functional models
- RT isodose curves
- RT radiotherapy
- RT tissue-equivalent materials

**pharmaceuticals**

- USE drugs

**PHARMACOLOGY**

- RT antiandrogens
- RT drugs

**pharmacotherapy**

- USE chemotherapy

**PHARYNX**

- UF nasopharynx
- UF throat
- UF tonsils
- BT1 digestive system
- \*BT1 organs
- BT1 respiratory system
- RT neck
- RT oral cavity

**PHASE CHANGE MATERIALS**

- INIS: 1992-02-18; ETDE: 1978-07-05
- Materials that undergo a phase change, e.g. from solid to liquid, at a temperature desired for heat storage.*
- BT1 materials
- RT eutectics
- RT fusion heat
- RT latent heat storage
- RT phase transformations
- RT transition heat

**PHASE DIAGRAMS**

- UF state diagrams
- \*BT1 diagrams

RT allotropy  
 RT alloy systems  
 RT critical temperature  
 RT eutectics  
 RT eutectoids  
 RT gases  
 RT glass  
 RT liquids  
 RT melting points  
 RT microstructure  
 RT monotectics  
 RT monotectoids  
 RT phase rule  
 RT phase studies  
 RT phase transformations  
 RT solid solutions  
 RT solids  
 RT thermal analysis  
 RT triple point

**phase factor**

INIS: 2000-06-27; ETDE: 1977-09-19

USE power factor

**PHASE OSCILLATIONS**

\*BT1 beam dynamics  
 BT1 oscillations

**PHASE RULE**

RT phase diagrams

**PHASE SHIFT**

RT aharonov-bohm effect  
 RT argand diagrams  
 RT partial waves  
 RT scattering

**PHASE SPACE**

\*BT1 mathematical space  
 RT attractors  
 RT dalitz plot  
 RT ergodic hypothesis  
 RT limit cycle  
 RT liouville theorem  
 RT mathematics  
 RT prism plot

**PHASE STABILITY**

BT1 stability  
 RT beam dynamics

**PHASE STUDIES**

RT phase diagrams  
 RT phase transformations  
 RT thermochemical diagrams  
 RT thermodynamic activity

**PHASE TRANSFORMATIONS**

UF transformations (phase)  
 UF transitions (phase)

NT1 boiling  
 NT2 film boiling  
 NT2 nucleate boiling  
 NT3 departure nucleate boiling  
 NT2 pool boiling  
 NT2 subcooled boiling  
 NT2 transition boiling  
 NT1 crystal-phase transformations  
 NT1 crystallization  
 NT1 evaporation  
 NT2 flashing  
 NT2 sublimation  
 NT2 vacuum evaporation  
 NT1 freezing  
 NT1 melting  
 NT2 electron beam melting  
 NT2 vacuum melting  
 NT2 zone melting  
 NT1 order-disorder transformations  
 NT1 solidification  
 NT1 thawing  
 RT allotropy

RT bifurcation  
 RT critical temperature  
 RT dew point  
 RT eutectics  
 RT eutectoids  
 RT glass  
 RT guinier-preston zones  
 RT habit planes  
 RT kosterlitz-thouless theory  
 RT microstructure  
 RT phase change materials  
 RT phase diagrams  
 RT phase studies  
 RT shape memory effect  
 RT supercritical state  
 RT thermal analysis  
 RT transition heat  
 RT transition temperature  
 RT triple point  
 RT widmanstaetten structure

**PHASE VELOCITY**

BT1 velocity  
 RT wave propagation

**PHASEOLUS**

UF bean plant  
 \*BT1 leguminosae  
 RT beans  
 RT mungbeans  
 RT phytohemagglutinin

**phasotrons**

USE synchrocyclotrons

**PHEBUS FACILITY**

INIS: 1992-08-18; ETDE: 1987-04-08  
*Neodymium glass laser facility at Limeil, France, for laser fusion experiments.*  
 RT neodymium lasers

**PHEBUS REACTOR**

INIS: 1990-05-17; ETDE: 1990-06-01  
*Nuclear Protection and Safety Institute, CEA St. Paul lez Durance, France.*

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**phenacetin**

(Prior to April 1981, this concept in ETDE was indexed to ANALGESICS and ANTIPIRETTICS.)  
 USE analgesics  
 USE antipyretics

**PHENANTHRENE**

\*BT1 condensed aromatics  
 \*BT1 hydrocarbons

**PHENANTHROLINE-ORTHO**

\*BT1 phenanthrolines  
 BT1 reagents  
 RT ferroin

**PHENANTHROLINES**

\*BT1 azaarenes  
 NT1 ferroin  
 NT1 phenanthroline-ortho

**PHENAZINE**

\*BT1 pyrazines

**PHENETHYL RADICALS**

\*BT1 aryl radicals

**PHENIX REACTOR**

*Marcoule, Gard, France.*  
 UF marcoule phenix reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 lmfr type reactors  
 \*BT1 plutonium reactors

\*BT1 power reactors  
 \*BT1 sodium cooled reactors

**PHENOBARBITAL**

UF luminal  
 \*BT1 anticonvulsants  
 \*BT1 barbiturates

**PHENOL**

UF hydroxybenzene  
 \*BT1 phenols

**PHENOLATES**

INIS: 1979-12-20; ETDE: 1976-11-17  
 RT phenols

**PHENOLOGY**

INIS: 2000-04-12; ETDE: 1980-03-29  
*A branch of science dealing with the relations between climate and periodic biological phenomena.*  
 RT climates

**PHENOLPHTHALEIN**

\*BT1 carboxylic acid esters  
 BT1 indicators  
 \*BT1 phenols  
 RT phthalic acid

**PHENOLS**

1996-07-16

(Prior to June 1996 BAMPB was a valid ETDE descriptor.)

UF amidol  
 UF bambp  
 UF butyl-alpha-methylbenzylphenol  
 \*BT1 aromatics  
 \*BT1 hydroxy compounds  
 NT1 cresols  
 NT1 dinitrophenol  
 NT1 eriochrome dyes  
 NT1 hydroxypropiophenone  
 NT1 naphthols  
 NT2 1-nitroso-2-naphthol  
 NT2 nitroso-r salt  
 NT2 pyridylazonaphthol  
 NT2 thorin  
 NT2 trypan blue  
 NT1 nitrophenol  
 NT1 phenol  
 NT1 phenolphthalein  
 NT1 picric acid  
 NT1 polyphenols  
 NT2 arsenazo  
 NT2 bromosulfophthalein  
 NT2 catecholamines  
 NT2 curcumin  
 NT2 dopamine  
 NT2 fluorescein  
 NT3 erythrosine  
 NT2 hematoxylin  
 NT2 morin  
 NT2 pyridylazoresorcinol  
 NT2 pyrocatechol  
 NT2 pyrogallol  
 NT2 quercetin  
 NT2 resorcinol  
 NT2 stilbestrol  
 NT2 tannic acid  
 NT2 tiron  
 NT1 thymol  
 NT1 tyramine  
 NT1 xylenols  
 RT alkoxides  
 RT bakelite  
 RT dephenolization  
 RT phenolates  
 RT phenosolvan process

**PHENOSOLVAN PROCESS**

INIS: 2000-04-12; ETDE: 1983-03-23

Proprietary process for extracting phenols from gas liquids by counter current contact with isopropyl ether solvent.

\*BT1 solvent extraction  
RT phenols

**PHENOTHIAZINES**

\*BT1 azines  
\*BT1 organic sulfur compounds  
NT1 chlorpromazine  
NT1 methylene blue  
RT thionine  
RT tranquilizers

**PHENOTYPE**

RT genotype  
RT ontogenesis

**PHENOXY RADICALS**

BT1 radicals

**PHENYL ETHER**

2000-04-12

UF dowertherm  
\*BT1 ethers

**phenyl methyl ether**

USE anisole

**PHENYL RADICALS**

\*BT1 aryl radicals

**phenylacetylene**

USE tolan

**phenylacrylic acid-beta**

USE cinnamic acid

**PHENYLALANINE**

UF aminophenylacetic acid-alpha  
\*BT1 amino acids  
\*BT1 aromatics  
RT dopa  
RT tyrosine

**phenylamine**

USE aniline

**phenylcarbinol**

1982-02-10

USE benzyl alcohol

**PHENYLENE RADICALS**

BT1 radicals

**phenylethylene**

USE styrene

**phenylhydroxylamine**

USE cupferron

**phenylisopropylamine**

USE benzedrine

**PEROMONE**

BT1 chemical attractants  
BT1 secretion  
RT insects  
RT sex  
RT yeasts

**phi-1019 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE phi-1020 mesons

**PHI-1020 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-25

(Prior to December 1987 this concept was indexed by PHI-1019 RESONANCES.)

UF phi-1019 resonances

\*BT1 phi mesons

\*BT1 vector mesons

**PHI-1680 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 phi mesons  
\*BT1 vector mesons

**phi j-1850 mesons**

INIS: 1995-08-07; ETDE: 1988-02-01

(Until July 1995 this was a valid term.)

USE phi3-1850 mesons

**PHI MESONS**

2007-03-02

\*BT1 mesons  
NT1 phi-1020 mesons  
NT1 phi-1680 mesons  
NT1 phi3-1850 mesons

**PHI3-1850 MESONS**

1995-08-07

(Until July 1995 this concept was indexed by PHI J-1850 MESONS.)

UF phi j-1850 mesons

\*BT1 phi mesons  
\*BT1 tensor mesons

**PHI4-FIELD THEORY**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 quantum field theory  
RT boundary conditions  
RT Haag theorem  
RT heisenberg model  
RT ising model  
RT locality  
RT radiative corrections

**PHILADELPHIA CHROMOSOME**

UF ph'chromosome

\*BT1 human chromosomes  
RT myeloid leukemia

**philadelphia electric power reactor-1**

1993-11-09

USE limerick-1 reactor

**philadelphia electric power reactor-2**

1993-11-09

USE limerick-2 reactor

**philco computers**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

USE computers

**PHILIPPINE ATOMIC ENERGY COMMISSION**

INIS: 1977-09-06; ETDE: 1977-10-19

Philippine Atomic Energy Commission, abolished in 1988 and replaced by the Philippine Nuclear Research Institute.

UF paec

\*BT1 philippine nuclear research institute

**PHILIPPINE ATOMIC RESEARCH CENTER**

INIS: 1995-02-16; ETDE: 1977-10-19

\*BT1 philippine nuclear research institute

**philippine nucl res inst**

INIS: 1990-12-17; ETDE: 2002-04-26

(From June to December 1990, this was a valid descriptor.)

USE philippine nuclear research institute

**philippine nuclear power plant-1**

INIS: 1993-11-09; ETDE: 1982-07-08

USE pnpp-1 reactor

**PHILIPPINE NUCLEAR RESEARCH INSTITUTE**

INIS: 1990-12-17; ETDE: 1990-10-09

Philippine Nuclear Research Institute, created in 1988 and replacing the Philippine Atomic Energy Commission.

UF philippine nucl res inst

\*BT1 philippine organizations

NT1 philippine atomic energy commission

NT1 philippine atomic research center

**PHILIPPINE ORGANIZATIONS**

INIS: 1977-09-06; ETDE: 1977-06-02

BT1 national organizations

NT1 philippine nuclear research institute

NT2 philippine atomic energy commission

NT2 philippine atomic research center

**philippine research reactor-1**

USE prr-1 reactor

**PHILIPPINES**

1997-06-19

BT1 asia

BT1 developing countries

BT1 islands

RT pacific ocean

RT palimpinon geothermal field

RT tiwi geothermal field

RT tongonan geothermal field

**PHILIPPSBURG-1 REACTOR**

UF kernkraftwerk philippsburg-1

UF kkp-1 philippsburg reactor

\*BT1 bwr type reactors

**PHILIPPSBURG-2 REACTOR**

UF kernkraftwerk philippsburg-2

UF kkp-2 philippsburg reactor

\*BT1 pwr type reactors

**PHILIPS GAGES**

UF penning gages

\*BT1 ionization gages

RT sputter-ion pumps

**PHIPPS BEND-1 REACTOR**

INIS: 1978-01-16; ETDE: 1975-12-16

TVA, Surgoinsville, Tennessee, USA. Canceled in 1982 before construction began.

\*BT1 bwr type reactors

RT ge standard reactor

**PHIPPS BEND-2 REACTOR**

INIS: 1978-01-16; ETDE: 1975-12-16

TVA, Surgoinsville, Tennessee, USA. Canceled in 1982 before construction began.

\*BT1 bwr type reactors

RT ge standard reactor

**phloredzin**

1996-10-23

(Prior to March 1997 PHLORIZIN was used for this concept in ETDE.)

USE glycosides

USE ketones

**phlorhizin**

1996-10-23

(Prior to March 1997 PHLORIZIN was used for this concept in ETDE.)

USE glycosides

USE ketones

**phlorizin**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE glycosides

USE ketones

**PHOEBUS-1A REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF rocket reactor experiment phoebus-1a

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**PHOEBUS-1B REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF rocket reactor experiment phoebus-1b

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**PHOEBUS-2A REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF rocket reactor experiment phoebus-2a

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**PHOENIX DEVICES**

\*BT1 magnetic mirrors

**PHONONS**

BT1 quasi particles

RT acoustic esr

RT acoustic nmr

RT electron-phonon coupling

RT landau liquid helium theory

RT photoacoustic effect

RT quasiparticle-phonon model

RT solitons

RT umklapp processes

**PHORBOL ESTERS**

INIS: 1981-12-23; ETDE: 1980-05-06

\*BT1 esters

RT carcinogens

**PHOSAM PROCESS**

INIS: 2000-04-12; ETDE: 1983-03-23

Absorber unit for recovering ammonia from the vapor phase with ammonium phosphate solution.

BT1 separation processes

RT ammonia

**PHOSGENE**

UF carbon oxychloride

UF carbonyl chloride

\*BT1 carbonic acid derivatives

\*BT1 organic chlorine compounds

**PHOSPHATASES**

Code number 3.1.3.

\*BT1 esterases

NT1 acid phosphatase

NT1 alkaline phosphatase

NT1 nucleotidases

**PHOSPHATE GLASS**

2000-04-04

Glass with phosphorus pentoxide as a major component.

BT1 glass

RT borophosphate glass

RT rpl dosimeters

**PHOSPHATE MINERALS**

INIS: 1996-11-13; ETDE: 1982-05-12

UF dumontite

UF florencite

UF lermontovite

UF parsonsite

UF phosphuranylite

UF steenstrupine

UF uranocircite

BT1 minerals

NT1 apatites

NT1 autunite

NT1 monazites

NT1 ningyoite

NT1 saleeite

NT1 torbernite

NT1 xenotime

RT aluminium phosphates

RT barium phosphates

RT cerium phosphates

RT copper phosphates

RT lead phosphates

RT magnesium phosphates

RT phosphate rocks

RT phosphorites

RT uranium phosphates

RT yttrium phosphates

**phosphate process**

INIS: 2000-04-12; ETDE: 1977-04-12

Buffered aqueous absorption process using sodium phosphate solution to absorb sulfur dioxide from flue gas.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**PHOSPHATE ROCKS**

INIS: 1980-05-14; ETDE: 1976-10-13

\*BT1 sedimentary rocks

NT1 phosphorites

RT calcium carbonates

RT calcium phosphates

RT phosphate minerals

**PHOSPHATES**

1997-06-17

For salts only; see also PHOSPHORIC ACID ESTERS.

UF acid phosphates

UF biphosphates

BT1 oxygen compounds

BT1 phosphorus compounds

NT1 aluminium phosphates

NT1 americium phosphates

NT1 ammonium phosphates

NT1 barium phosphates

NT1 berkelium phosphates

NT1 beryllium phosphates

NT1 bismuth phosphates

NT1 boron phosphates

NT1 cadmium phosphates

NT1 calcium phosphates

NT1 cerium phosphates

NT1 cesium phosphates

NT1 chromium phosphates

NT1 cobalt phosphates

NT1 copper phosphates

NT1 dysprosium phosphates

NT1 erbium phosphates

NT1 europium phosphates

NT1 gadolinium phosphates

NT1 gallium phosphates

NT1 germanium phosphates

NT1 hafnium phosphates

NT1 holmium phosphates

NT1 indium phosphates

NT1 iron phosphates

NT1 lanthanum phosphates

NT1 lead phosphates

NT1 lithium phosphates

NT1 lutetium phosphates

NT1 magnesium phosphates

NT1 manganese phosphates

NT1 molybdenum phosphates

NT1 neodymium phosphates

NT1 neptunium phosphates

NT1 nickel phosphates

NT1 niobium phosphates

NT1 plutonium phosphates

NT1 potassium phosphates

NT1 praseodymium phosphates

NT1 promethium phosphates

NT1 protactinium phosphates

NT1 rubidium phosphates

NT1 samarium phosphates

NT1 scandium phosphates

NT1 silicon phosphates

NT1 silver phosphates

NT1 sodium phosphates

NT1 strontium phosphates

NT1 superphosphates

NT1 tantalum phosphates

NT1 technetium phosphates

NT1 terbium phosphates

NT1 thallium phosphates

NT1 thorium phosphates

NT1 thulium phosphates

NT1 tin phosphates

NT1 titanium phosphates

NT1 uranium phosphates

NT1 uranyl phosphates

NT1 vanadium phosphates

NT1 ytterbium phosphates

NT1 yttrium phosphates

NT1 zinc phosphates

NT1 zirconium phosphates

RT molybdophosphates

RT phosphoric acid

RT phosphorites

**phosphatides**

USE phospholipids

**phosphatidylcholine**

INIS: 2000-04-12; ETDE: 1986-03-04

USE lecithins

**PHOSPHIDES**

1997-06-19

BT1 phosphorus compounds

BT1 pnictides

NT1 aluminium phosphides

NT1 americium phosphides

NT1 berkelium phosphides

NT1 beryllium phosphides

NT1 boron phosphides

NT1 cadmium phosphides

NT1 cerium phosphides

NT1 cobalt phosphides

NT1 copper phosphides

NT1 curium phosphides

NT1 dysprosium phosphides

NT1 erbium phosphides

NT1 europium phosphides

NT1 gadolinium phosphides

NT1 gallium phosphides

NT1 germanium phosphides

NT1 hafnium phosphides

NT1 holmium phosphides

NT1 indium phosphides

NT1 iron phosphides

NT1 lanthanum phosphides

NT1 lithium phosphides

NT1 manganese phosphides

NT1 molybdenum phosphides

NT1 neptunium phosphides

NT1 nickel phosphides

NT1 microbraz 50

NT1 niobium phosphides

NT1 osmium phosphides

NT1 palladium phosphides

NT1 platinum phosphides

NT1 plutonium phosphides

NT1 potassium phosphides

NT1 praseodymium phosphides

NT1 rhodium phosphides

NT1 ruthenium phosphides

NT1 samarium phosphides

NT1 scandium phosphides

NT1 silicon phosphides

NT1 sodium phosphides

NT1 tantalum phosphides

NT1 terbium phosphides  
 NT1 thorium phosphides  
 NT1 thulium phosphides  
 NT1 tin phosphides  
 NT1 titanium phosphides  
 NT1 tungsten phosphides  
 NT1 uranium phosphides  
 NT1 vanadium phosphides  
 NT1 ytterbium phosphides  
 NT1 yttrium phosphides  
 NT1 zinc phosphides  
 NT1 zirconium phosphides  
 RT phosphorus additions

**PHOSPHINE OXIDES**

INIS: 1992-01-07; ETDE: 1985-09-23

BT1 oxygen compounds  
 \*BT1 phosphines  
 NT1 cmpo  
 NT1 tributylphosphine oxide  
 NT1 trioctylphosphine oxide  
 NT1 triphenylphosphine oxide  
 RT organic phosphorus compounds

**PHOSPHINES**

BT1 phosphorus compounds  
 NT1 phosphine oxides  
 NT2 cmpo  
 NT2 tributylphosphine oxide  
 NT2 trioctylphosphine oxide  
 NT2 triphenylphosphine oxide  
 RT organic phosphorus compounds  
 RT pest control  
 RT pesticides  
 RT phosphorus hydrides

**PHOSPHINIC ACID ESTERS**

\*BT1 esters  
 \*BT1 organic phosphorus compounds  
 RT phosphinic acids

**PHOSPHINIC ACIDS**

1992-01-10

(Before 1992, this information was indexed to ORGANOPHOSPHINIC ACIDS.)

UF organophosphinic acids  
 \*BT1 organic acids  
 \*BT1 organic phosphorus compounds  
 RT phosphinic acid esters

**phosphites**

Specific phosphites should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and PHOSPHOROUS ACID.

USE phosphorous acid

**PHOSPHOCREATINE**

\*BT1 amino acids  
 \*BT1 organic phosphorus compounds  
 RT creatine

**PHOSPHODIESTERASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.1.4.

\*BT1 esterases  
 NT1 nucleases  
 NT2 dna-ase  
 NT3 endonucleases  
 NT2 rna-ase

**PHOSPHOENOLPYRUVATE**

INIS: 2000-04-12; ETDE: 1984-10-10

An intermediate compound in both the C4 photosynthetic pathway and carbohydrate metabolism.

UF pep  
 RT biosynthesis  
 RT carbohydrates  
 RT carbon dioxide  
 RT chemical reactions  
 RT metabolism

RT photosynthesis  
 RT uptake

**PHOSPHOHYDROLASES**

INIS: 1985-09-09; ETDE: 1981-01-30

Code number 3.6.1.

\*BT1 acid anhydrases  
 NT1 atp-ase

**PHOSPHOLIPIDS**

1996-10-22

UF cephalins  
 UF phosphatides  
 \*BT1 esters  
 \*BT1 lipids  
 \*BT1 organic phosphorus compounds  
 NT1 cardioliipin  
 NT1 lecithins  
 NT1 sphingomyelins

**phosphomolybdic acid**

1980-05-14

USE molybdophosphoric acid

**PHOSPHONATES**

1976-02-05

For salts only; see also PHOSPHONIC ACID ESTERS.

\*BT1 organic phosphorus compounds

**PHOSPHONIC ACID ESTERS**

SF dehp

\*BT1 esters  
 \*BT1 organic phosphorus compounds  
 NT1 damp

NT1 dhdecmp

**PHOSPHONIC ACIDS**

1994-03-15

\*BT1 organic acids  
 \*BT1 organic phosphorus compounds

**PHOSPHOPROTEINS**

INIS: 2000-04-12; ETDE: 1987-04-24

Proteins which have phosphoric acid as a prosthetic group.

\*BT1 proteins  
 RT cyclases  
 RT phosphotransferases  
 RT post-translation modification

**PHOSPHORESCENCE**

\*BT1 luminescence  
 RT afterglow  
 RT phosphors

**PHOSPHORIC ACID**

UF hydrogen phosphates

\*BT1 inorganic acids  
 BT1 oxygen compounds  
 BT1 phosphorus compounds  
 RT molybdophosphoric acid  
 RT phosphates  
 RT tungstophosphoric acid

**PHOSPHORIC ACID ESTERS**

UF t2ehp

UF tri-2-ethylhexyl phosphate

\*BT1 esters  
 \*BT1 organic phosphorus compounds  
 NT1 butyl phosphates  
 NT2 dbp  
 NT2 mbp  
 NT2 tbp  
 NT1 hdehp  
 NT1 mdpa  
 NT1 phytic acid  
 NT1 tcp

**PHOSPHORITES**

Sedimentary rocks composed chiefly of phosphate.

\*BT1 phosphate rocks

RT phosphate minerals  
 RT phosphates

**PHOSPHOROUS ACID**

UF phosphites

\*BT1 inorganic acids  
 BT1 oxygen compounds  
 BT1 phosphorus compounds

**PHOSPHORS**

UF fluors

UF scintillators

NT1 glass scintillators  
 NT1 inorganic phosphors  
 NT2 cadmium sulfides  
 NT2 cadmium tungstates  
 NT2 calcium tungstates  
 NT2 cesium iodides  
 NT2 lithium iodides  
 NT2 potassium iodides  
 NT2 sodium iodides  
 NT2 zinc sulfides  
 NT1 liquid scintillators  
 NT1 organic crystal phosphors  
 NT1 plastic scintillators  
 RT luminescent chambers  
 RT luminescent concentrators  
 RT luminescent dosimeters  
 RT phosphorescence  
 RT scintillation counters

**PHOSPHORUS**

\*BT1 nonmetals

**PHOSPHORUS 21**

\*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 phosphorus isotopes

**PHOSPHORUS 24**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 phosphorus isotopes

**PHOSPHORUS 25**

2002-02-27

\*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 phosphorus isotopes

**PHOSPHORUS 26**

INIS: 1983-09-01; ETDE: 1983-04-28

\*BT1 beta-plus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 phosphorus isotopes

**PHOSPHORUS 27**

1986-04-02

\*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 phosphorus isotopes

**PHOSPHORUS 28**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 phosphorus isotopes

**PHOSPHORUS 29**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 phosphorus isotopes  
 \*BT1 seconds living radioisotopes

**PHOSPHORUS 30**

\*BT1 beta-plus decay radioisotopes



- \*BT1 light nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 30 TARGET***INIS: 1992-09-23; ETDE: 1984-11-29*

- BT1 targets

**PHOSPHORUS 31**

- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes
- \*BT1 stable isotopes

**PHOSPHORUS 31 BEAMS***1983-09-01*

- \*BT1 ion beams

**PHOSPHORUS 31 REACTIONS***INIS: 1978-04-21; ETDE: 1978-07-06*

- \*BT1 heavy ion reactions

**PHOSPHORUS 31 TARGET***ETDE: 1976-07-09*

- BT1 targets

**PHOSPHORUS 32**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 32 TARGET***ETDE: 1976-07-09*

- BT1 targets

**PHOSPHORUS 33**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 34**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes
- \*BT1 seconds living radioisotopes

**PHOSPHORUS 35**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes
- \*BT1 seconds living radioisotopes

**PHOSPHORUS 36**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes
- \*BT1 seconds living radioisotopes

**PHOSPHORUS 37**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes
- \*BT1 seconds living radioisotopes

**PHOSPHORUS 38**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 39***INIS: 1977-10-17; ETDE: 1977-08-09*

- \*BT1 light nuclei
- \*BT1 odd-even nuclei

- \*BT1 phosphorus isotopes

**PHOSPHORUS 40***INIS: 1979-09-18; ETDE: 1979-10-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 41***INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 42***INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 43***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 44***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 45***INIS: 1990-04-19; ETDE: 1990-05-16*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 46***INIS: 1990-04-19; ETDE: 1990-11-20*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS ADDITIONS**

- BT1 alloys
- RT phosphides

**PHOSPHORUS BROMIDES**

- \*BT1 bromides
- BT1 phosphorus compounds

**PHOSPHORUS CHLORIDES**

- \*BT1 chlorides
- BT1 phosphorus compounds

**PHOSPHORUS COMPLEXES**

- BT1 complexes

**PHOSPHORUS COMPOUNDS**

- NT1 hypophosphorous acid
- NT1 molybdophosphates
- NT1 molybdophosphoric acid
- NT1 phosphates
- NT2 aluminium phosphates
- NT2 americium phosphates
- NT2 ammonium phosphates
- NT2 barium phosphates
- NT2 berkelium phosphates
- NT2 beryllium phosphates
- NT2 bismuth phosphates
- NT2 boron phosphates
- NT2 cadmium phosphates
- NT2 calcium phosphates
- NT2 cerium phosphates
- NT2 cesium phosphates
- NT2 chromium phosphates
- NT2 cobalt phosphates
- NT2 copper phosphates
- NT2 dysprosium phosphates
- NT2 erbium phosphates
- NT2 europium phosphates
- NT2 gadolinium phosphates
- NT2 gallium phosphates
- NT2 germanium phosphates
- NT2 hafnium phosphates
- NT2 holmium phosphates
- NT2 indium phosphates
- NT2 iron phosphates
- NT2 lanthanum phosphates
- NT2 lead phosphates
- NT2 lithium phosphates
- NT2 lutetium phosphates
- NT2 magnesium phosphates
- NT2 manganese phosphates
- NT2 molybdenum phosphates
- NT2 neodymium phosphates
- NT2 neptunium phosphates
- NT2 nickel phosphates
- NT2 niobium phosphates
- NT2 plutonium phosphates
- NT2 potassium phosphates
- NT2 praseodymium phosphates
- NT2 promethium phosphates
- NT2 protactinium phosphates
- NT2 rubidium phosphates
- NT2 samarium phosphates
- NT2 scandium phosphates
- NT2 silicon phosphates
- NT2 silver phosphates
- NT2 sodium phosphates
- NT2 strontium phosphates
- NT2 superphosphates
- NT2 tantalum phosphates
- NT2 technetium phosphates
- NT2 terbium phosphates
- NT2 thallium phosphates
- NT2 thorium phosphates
- NT2 thulium phosphates
- NT2 tin phosphates
- NT2 titanium phosphates
- NT2 uranium phosphates
- NT2 uranyl phosphates
- NT2 vanadium phosphates
- NT2 ytterbium phosphates
- NT2 yttrium phosphates
- NT2 zinc phosphates
- NT2 zirconium phosphates
- NT1 phosphides
- NT2 aluminium phosphides
- NT2 americium phosphides
- NT2 berkelium phosphides
- NT2 beryllium phosphides
- NT2 boron phosphides
- NT2 cadmium phosphides
- NT2 cerium phosphides
- NT2 cobalt phosphides
- NT2 copper phosphides
- NT2 curium phosphides
- NT2 dysprosium phosphides
- NT2 erbium phosphides
- NT2 europium phosphides
- NT2 gadolinium phosphides
- NT2 gallium phosphides
- NT2 germanium phosphides
- NT2 hafnium phosphides
- NT2 holmium phosphides
- NT2 indium phosphides
- NT2 iron phosphides
- NT2 lanthanum phosphides
- NT2 lithium phosphides
- NT2 manganese phosphides
- NT2 molybdenum phosphides
- NT2 neptunium phosphides
- NT2 nickel phosphides
- NT2 niobium phosphides
- NT2 nicrobraz 50
- NT2 osmium phosphides
- NT2 palladium phosphides

NT2 platinum phosphides  
 NT2 plutonium phosphides  
 NT2 potassium phosphides  
 NT2 praseodymium phosphides  
 NT2 rhodium phosphides  
 NT2 ruthenium phosphides  
 NT2 samarium phosphides  
 NT2 scandium phosphides  
 NT2 silicon phosphides  
 NT2 sodium phosphides  
 NT2 tantalum phosphides  
 NT2 terbium phosphides  
 NT2 thorium phosphides  
 NT2 thulium phosphides  
 NT2 tin phosphides  
 NT2 titanium phosphides  
 NT2 tungsten phosphides  
 NT2 uranium phosphides  
 NT2 vanadium phosphides  
 NT2 ytterbium phosphides  
 NT2 yttrium phosphides  
 NT2 zinc phosphides  
 NT2 zirconium phosphides  
 NT1 phosphines  
 NT2 phosphine oxides  
   NT3 cmpo  
   NT3 tributylphosphine oxide  
   NT3 trioctylphosphine oxide  
   NT3 triphenylphosphine oxide  
 NT1 phosphoric acid  
 NT1 phosphorous acid  
 NT1 phosphorus bromides  
 NT1 phosphorus chlorides  
 NT1 phosphorus fluorides  
 NT1 phosphorus hydrides  
 NT1 phosphorus iodides  
 NT1 phosphorus nitrides  
 NT1 phosphorus oxides  
 NT1 phosphorus sulfides  
 NT1 pyrophosphates  
 NT1 tungstophosphates  
 NT1 tungstophosphoric acid  
 RT organic phosphorus compounds

**PHOSPHORUS FLUORIDES**

\*BT1 fluorides  
 BT1 phosphorus compounds

**PHOSPHORUS-GROUP TRANSFERASES**

*INIS: 1986-12-03; ETDE: 1981-01-30*

*Code number 2.7.*

\*BT1 transferases  
 NT1 nucleotidyltransferases  
   NT2 polymerases  
     NT3 dna polymerases  
     NT3 rna polymerases  
 NT1 phosphotransferases  
   NT2 hexokinase

**PHOSPHORUS HYDRIDES**

\*BT1 hydrides  
 BT1 phosphorus compounds  
 RT phosphines

**PHOSPHORUS IODIDES**

\*BT1 iodides  
 BT1 phosphorus compounds

**PHOSPHORUS IONS**

\*BT1 ions

**PHOSPHORUS ISOTOPES**

*1999-07-16*

BT1 isotopes  
 NT1 phosphorus 21  
 NT1 phosphorus 24  
 NT1 phosphorus 25  
 NT1 phosphorus 26  
 NT1 phosphorus 27  
 NT1 phosphorus 28

NT1 phosphorus 29  
 NT1 phosphorus 30  
 NT1 phosphorus 31  
 NT1 phosphorus 32  
 NT1 phosphorus 33  
 NT1 phosphorus 34  
 NT1 phosphorus 35  
 NT1 phosphorus 36  
 NT1 phosphorus 37  
 NT1 phosphorus 38  
 NT1 phosphorus 39  
 NT1 phosphorus 40  
 NT1 phosphorus 41  
 NT1 phosphorus 42  
 NT1 phosphorus 43  
 NT1 phosphorus 44  
 NT1 phosphorus 45  
 NT1 phosphorus 46

**PHOSPHORUS NITRIDES**

\*BT1 nitrides  
 BT1 phosphorus compounds

**PHOSPHORUS OXIDES**

\*BT1 oxides  
 BT1 phosphorus compounds

**PHOSPHORUS SULFIDES**

BT1 phosphorus compounds  
 \*BT1 sulfides

**phosphorylases**

USE phosphotransferases

**PHOSPHORYLATION**

BT1 chemical reactions

**PHOSPHOTRANSFERASES**

*1996-11-13*

*Code numbers 2.7.1 to 2.7.6 and 2.7.8 to 2.7.9.*

UF kinases  
 UF kinases (phosphotransferases)  
 UF phosphorylases  
 UF streptidine kinase  
 \*BT1 phosphorus-group transferases  
 NT1 hexokinase  
 RT phosphoproteins

**phosphotungstic acid**

USE tungstophosphoric acid

**phosphowolfram acid**

USE tungstophosphoric acid

**phosphuranylite**

*1996-07-08*

*(Until June 1996 this was a valid descriptor.)*

USE phosphate minerals  
 USE uranium minerals

**photo-induced transient spectroscopy**

*INIS: 2000-04-12; ETDE: 1983-03-23*

*A transport technique which detects the transient rise or decay of a photocurrent during chopped illumination.*

*(Prior to March 1997 this was a valid ETDE descriptor.)*

USE spectroscopy

**PHOTOACOUSTIC EFFECT**

*INIS: 1980-09-12; ETDE: 1979-08-07*

RT acoustics  
 RT phonons  
 RT photoacoustic spectrometers  
 RT photoacoustic spectroscopy  
 RT radiation effects

**PHOTOACOUSTIC SPECTROMETERS**

*INIS: 1978-02-23; ETDE: 1978-05-01*

UF optoacoustic cells

UF spectrophones  
 \*BT1 infrared spectrometers  
 RT absorption spectroscopy  
 RT gas analysis  
 RT photoacoustic effect  
 RT photoacoustic spectroscopy

**PHOTOACOUSTIC SPECTROSCOPY**

*INIS: 1986-04-03; ETDE: 1978-07-06*

BT1 spectroscopy  
 RT photoacoustic effect  
 RT photoacoustic spectrometers

**PHOTOANODES**

*INIS: 1992-02-22; ETDE: 1979-02-23*

\*BT1 anodes  
 RT photocathodes

**PHOTOCATALYSIS**

*2006-03-31*

BT1 catalysis  
 RT catalysts

**PHOTOCATHODES**

*INIS: 1980-11-07; ETDE: 1977-06-30*

\*BT1 cathodes  
 RT photoanodes  
 RT photocurrents  
 RT photoelectric effect  
 RT photoemission  
 RT quantum efficiency

**photocells**

USE photoelectric cells

**PHOTOCHEMICAL ENERGY STORAGE**

*INIS: 2000-04-12; ETDE: 1979-10-23*

\*BT1 energy storage  
 RT photochemical reactions  
 RT photochemistry  
 RT photoelectrochemical cells  
 RT photosynthesis  
 RT solar photochemistry

**PHOTOCHEMICAL OXIDANTS**

*INIS: 2000-04-12; ETDE: 1976-02-19*

RT photochemistry  
 RT smog

**PHOTOCHEMICAL REACTIONS**

*INIS: 1992-03-18; ETDE: 1977-06-30*

BT1 chemical reactions  
 NT1 photolysis  
   NT2 biophotolysis  
 NT1 photosynthesis  
 RT atmospheric chemistry  
 RT hydrogen transfer  
 RT photochemical energy storage  
 RT photochemistry  
 RT photoelectrochemical cells  
 RT photosynthetic membranes

**PHOTOCHEMISTRY**

BT1 chemistry  
 NT1 solar photochemistry  
 RT atmospheric chemistry  
 RT bioluminescence  
 RT photochemical energy storage  
 RT photochemical oxidants  
 RT photochemical reactions  
 RT photoelectrochemical cells  
 RT photolysis  
 RT photosynthesis  
 RT radiation chemistry  
 RT reaction intermediates

**PHOTOCHROMIC MATERIALS**

*INIS: 2000-04-12; ETDE: 1976-04-19*

*Materials that change in color when exposed to visible or near-visible radiant energy.*

BT1 materials

RT dyes

## PHOTOCONDUCTIVE CELLS

\*BT1 photoelectric cells  
RT photoconductivity

## PHOTOCONDUCTIVITY

\*BT1 electric conductivity  
RT photoconductive cells  
RT photoconductors  
RT photocurrents  
RT traps

## PHOTOCONDUCTORS

RT electric conductors  
RT photoconductivity  
RT photodetectors  
RT photoelectric cells  
RT semiconductor materials

## PHOTOCOPYING

INIS: 2000-04-12; ETDE: 1980-08-12  
RT image processing  
RT photography

## PHOTOCURRENTS

INIS: 1985-03-19; ETDE: 1981-12-14  
\*BT1 electric currents  
RT photocathodes  
RT photoconductivity  
RT photoelectric cells  
RT photoelectric effect  
RT photoelectrochemical cells  
RT photovoltaic cells  
RT scanning light microscopy

## PHOTODETECTORS

RT photoconductors  
RT photodiodes  
RT photoelectric cells  
RT phototransistors

## PHOTODIODES

\*BT1 semiconductor diodes  
RT photodetectors  
RT photoelectric cells  
RT phototransistors

## photodisintegration

USE photonuclear reactions

## PHOTOELASTICITY

\*BT1 elasticity  
RT homalite  
RT materials testing  
RT stress analysis

## PHOTOELECTRIC CELLS

UF photocells  
BT1 direct energy converters  
NT1 photoconductive cells  
NT1 photovoltaic cells  
NT2 solar cells  
NT3 aluminium arsenide solar cells  
NT3 back contact solar cells  
NT3 cadmium arsenide solar cells  
NT3 cadmium selenide solar cells  
NT3 cadmium sulfide solar cells  
NT3 cadmium telluride solar cells  
NT3 cascade solar cells  
NT3 concentrator solar cells  
NT3 copper oxide solar cells  
NT3 copper selenide solar cells  
NT3 copper sulfide solar cells  
NT3 gallium arsenide solar cells  
NT3 gallium phosphide solar cells  
NT3 indium phosphide solar cells  
NT3 indium selenide solar cells  
NT3 mi solar cells  
NT3 mis solar cells  
NT3 mos solar cells  
NT3 ms solar cells

NT3 organic solar cells  
NT3 pis solar cells  
NT3 ps solar cells  
NT3 schottky barrier solar cells  
NT3 selenium solar cells  
NT3 silicon arsenide solar cells  
NT3 silicon solar cells  
NT4 soc solar cells  
NT3 zinc phosphide solar cells  
NT3 zinc sulfide solar cells  
RT image tubes  
RT photoconductors  
RT photocurrents  
RT photodetectors  
RT photodiodes  
RT photomultipliers  
RT phototransistors  
RT phototubes  
RT semiconductor devices

## PHOTOELECTRIC EFFECT

UF photoelectromagnetic effect  
UF photomagnetolectric effect  
NT1 photoelectric emission  
NT1 photovoltaic effect  
RT fowler-nordheim theory  
RT photocathodes  
RT photocurrents

## PHOTOELECTRIC EMISSION

\*BT1 electron emission  
BT1 photoelectric effect  
RT photoelectron counting  
RT quantum efficiency

## PHOTOELECTROCHEMICAL CELLS

INIS: 1992-02-22; ETDE: 1979-03-05  
BT1 electrochemical cells  
NT1 photogalvanic cells  
RT electrochemistry  
RT photochemical energy storage  
RT photochemical reactions  
RT photochemistry  
RT photocurrents  
RT photovoltaic cells  
RT solar equipment

## PHOTOELECTROLYSIS

INIS: 2000-04-12; ETDE: 1978-02-14  
*A room-temperature electrolytic decomposition of water that is powered by radiant energy.*  
UF photoelectrolytic cells  
\*BT1 electrolysis  
RT hydrogen production  
RT solar energy conversion

## photoelectrolytic cells

INIS: 2000-04-12; ETDE: 1978-02-14  
*Electrolytic cells with photovoltage generating electrodes for photoelectrolysis of the electrolyte.*  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE electrolytic cells  
USE photoelectrolysis

## photoelectromagnetic effect

INIS: 1984-04-04; ETDE: 1981-05-18  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE magnetic fields  
USE photoelectric effect

## PHOTOELECTRON COUNTING

INIS: 1976-08-17; ETDE: 1976-11-01  
BT1 counting techniques  
RT photoelectric emission

## PHOTOELECTRON SPECTROSCOPY

\*BT1 electron spectroscopy  
NT1 x-ray photoelectron spectroscopy  
RT electronic structure  
RT molecular structure

## PHOTOEMISSION

*Photon-induced emission.*  
\*BT1 secondary emission  
RT photocathodes

## PHOTOFISSION

\*BT1 fission  
\*BT1 photonuclear reactions

## PHOTOGALVANIC CELLS

INIS: 2000-04-12; ETDE: 1975-09-11  
\*BT1 photoelectrochemical cells

## PHOTOGRAPHIC EMULSIONS

1999-07-05  
\*BT1 emulsions  
RT latent images  
RT photographic film dosimeters

## PHOTOGRAPHIC FILM DETECTORS

UF track detectors (photographic)  
\*BT1 radiation detectors  
RT neutron-photon converters  
RT nuclear emulsions  
RT photographic film dosimeters  
RT photographic films

## PHOTOGRAPHIC FILM DOSEMETERS

UF film badges  
UF film dosimeters  
\*BT1 dosimeters  
RT film dosimetry  
RT nuclear emulsions  
RT photographic emulsions  
RT photographic film detectors

## PHOTOGRAPHIC FILMS

RT image scanners  
RT images  
RT latent images  
RT nuclear emulsions  
RT photographic film detectors

## photographs

USE images

## PHOTOGRAPHY

NT1 cinematography  
NT1 multispectral photography  
NT1 photomicrography  
NT1 schlieren method  
NT1 streak photography  
NT1 ultrahigh-speed photography  
RT cameras  
RT developers  
RT holography  
RT image processing  
RT photocopying  
RT xerography

## PHOTOIONIZATION

BT1 ionization

## PHOTOLUMINESCENCE

\*BT1 luminescence  
RT scanning light microscopy

## PHOTOLYSIS

\*BT1 decomposition  
\*BT1 photochemical reactions  
NT1 biophotolysis  
RT bioconversion  
RT dissociation

RT photochemistry  
 RT radiolysis  
 RT traps

**photomagnetic effect**

INIS: 1982-04-14; ETDE: 1982-05-07  
 USE magnetic susceptibility  
 USE visible radiation

**photomagnetolectric effect**

INIS: 1982-04-14; ETDE: 1982-05-07  
 USE magnetic fields  
 USE photoelectric effect

**PHOTOMETERS**

BT1 measuring instruments  
 NT1 densitometers  
 RT photometry  
 RT pyranometers

**PHOTOMETRY**

NT1 flame photometry  
 RT densitometers  
 RT photometers  
 RT spectrophotometry  
 RT spectroscopy

**PHOTOMICROGRAPHY**

BT1 photography  
 RT ceramography  
 RT fractography  
 RT metallography  
 RT microscopy

**PHOTOMULTIPLIERS**

BT1 phototubes  
 RT electron multipliers  
 RT photoelectric cells  
 RT scintillation counters

**PHOTON ACTIVATION ANALYSIS**

INIS: 1978-11-24; ETDE: 1979-02-27  
 UF analysis (photon activation)  
 \*BT1 activation analysis

**PHOTON-ATOM COLLISIONS**

\*BT1 atom collisions  
 \*BT1 photon collisions

**PHOTON-BARYON INTERACTIONS**

\*BT1 photon-hadron interactions  
 NT1 photon-hyperon interactions  
 NT1 photon-nucleon interactions  
 NT2 photon-neutron interactions  
 NT2 photon-proton interactions

**PHOTON BEAMS**

BT1 beams  
 RT light sources  
 RT particle beams  
 RT photons  
 RT visible radiation

**PHOTON COLLISIONS**

BT1 collisions  
 NT1 photon-atom collisions  
 NT1 photon-electron collisions  
 NT1 photon-ion collisions  
 NT1 photon-molecule collisions  
 NT1 photon-positron collisions

**PHOTON COMPUTED TOMOGRAPHY**

INIS: 2000-04-12; ETDE: 1980-05-07  
 \*BT1 computerized tomography  
 RT biomedical radiography  
 RT image scanners

**photon detection (gamma)**

INIS: 2000-04-12; ETDE: 1979-02-27  
 USE gamma detection

**photon detection (x-ray)**

INIS: 2000-04-12; ETDE: 1979-02-27  
 USE x-ray detection

**photon-deuteron interactions**

(Prior to March 1997 this was a valid ETDE descriptor.)  
 USE photon-neutron interactions  
 USE photon-proton interactions

**PHOTON-ELECTRON COLLISIONS**

ETDE: 1989-02-10  
 \*BT1 electron collisions  
 \*BT1 photon collisions

**PHOTON-ELECTRON INTERACTIONS**

\*BT1 photon-lepton interactions

**PHOTON EMISSION**

Emission of photons.  
 BT1 emission  
 NT1 luminescence  
 NT2 bioluminescence  
 NT2 cathodoluminescence  
 NT2 chemiluminescence  
 NT2 electroluminescence  
 NT2 fluorescence  
 NT3 resonance fluorescence  
 NT2 lyoluminescence  
 NT2 phosphorescence  
 NT2 photoluminescence  
 NT2 radioluminescence  
 NT3 radiothermoluminescence  
 NT2 thermoluminescence  
 NT3 radiothermoluminescence  
 NT1 superradiance  
 RT multi-photon processes  
 RT secondary emission

**PHOTON EMISSION SCANNING**

INIS: 1986-04-03; ETDE: 1979-05-09  
 BT1 diagnostic techniques  
 NT1 ecac scanning  
 RT emission computed tomography  
 RT photons

**PHOTON-HADRON INTERACTIONS**

\*BT1 electromagnetic interactions  
 \*BT1 particle interactions  
 NT1 photon-baryon interactions  
 NT2 photon-hyperon interactions  
 NT2 photon-nucleon interactions  
 NT3 photon-neutron interactions  
 NT3 photon-proton interactions  
 NT1 photon-meson interactions

**PHOTON-HYPERON INTERACTIONS**

\*BT1 photon-baryon interactions

**PHOTON-ION COLLISIONS**

\*BT1 ion collisions  
 \*BT1 photon collisions

**PHOTON-LEPTON INTERACTIONS**

\*BT1 particle interactions  
 NT1 photon-electron interactions  
 NT1 photon-muon interactions  
 NT1 photon-neutrino interactions  
 RT electromagnetic interactions  
 RT weak interactions

**PHOTON-MESON INTERACTIONS**

\*BT1 photon-hadron interactions

**PHOTON-MOLECULE COLLISIONS**

\*BT1 molecule collisions  
 \*BT1 photon collisions

**PHOTON-MUON INTERACTIONS**

\*BT1 photon-lepton interactions

**PHOTON-NEUTRINO INTERACTIONS**

\*BT1 photon-lepton interactions

**PHOTON-NEUTRON INTERACTIONS**

UF photon-deuteron interactions  
 \*BT1 photon-nucleon interactions

**PHOTON-NUCLEON INTERACTIONS**

\*BT1 photon-baryon interactions  
 NT1 photon-neutron interactions  
 NT1 photon-proton interactions

**photon-photon collisions**

ETDE: 2002-04-26  
 USE photon-photon interactions

**PHOTON-PHOTON INTERACTIONS**

UF photon-photon collisions  
 \*BT1 electromagnetic interactions  
 \*BT1 particle interactions  
 RT equivalent-photon approximation

**PHOTON-POSITRON COLLISIONS**

\*BT1 photon collisions  
 \*BT1 positron collisions

**PHOTON-PROTON INTERACTIONS**

UF photon-deuteron interactions  
 \*BT1 photon-nucleon interactions

**PHOTON TEMPERATURE**

UF temperature (photon)  
 RT energy  
 RT photons

**PHOTON TRANSMISSION SCANNING**

UF gamma transmission scanning  
 UF x-ray transmission scanning  
 BT1 diagnostic techniques  
 RT biomedical radiography  
 RT single photon emission computed tomography

**PHOTON TRANSPORT**

UF transport (gamma)  
 UF transport (photon)  
 \*BT1 neutral-particle transport  
 RT gamma transport theory

**PHOTONEUTRONS**

\*BT1 neutrons  
 \*BT1 photonucleons  
 RT peierls method  
 RT photonuclear reactions

**PHOTONS**

BT1 bosons  
 \*BT1 massless particles  
 NT1 cosmic photons  
 RT delayed gamma radiation  
 RT electromagnetic radiation  
 RT gamma radiation  
 RT photon beams  
 RT photon emission scanning  
 RT photon temperature  
 RT prompt gamma radiation  
 RT tagged photon method  
 RT x radiation

**PHOTONUCLEAR REACTIONS**

UF gamma reactions  
 UF photodisintegration  
 BT1 nuclear reactions  
 NT1 photofission  
 RT giant resonance  
 RT giant resonance model  
 RT photonucleons  
 RT photonucleons

*RT* photoproduction  
*RT* photoprotons

**PHOTONUCLEONS**

\*BT1 nucleons  
**NT1** photonucleons  
**NT1** photoprotons  
*RT* photonuclear reactions

**PHOTOPERIOD**

*INIS: 2000-04-12; ETDE: 1977-08-09*

*The number of daylight hours best suited to the growth and maturation of an organism.*

*RT* daily variations  
*RT* visible radiation

**PHOTOPRODUCTION**

\*BT1 electromagnetic interactions  
 \*BT1 particle interactions  
 BT1 particle production  
**NT1** primakoff effect  
*RT* drell model  
*RT* electric born model  
*RT* kroll-ruderman theorem  
*RT* levinger-bethe theory  
*RT* panofsky ratio  
*RT* photonuclear reactions

**PHOTOPROTONS**

\*BT1 photonucleons  
 \*BT1 protons  
*RT* photonuclear reactions

**photoreactivating enzyme**

*2004-09-16*

USE enzymes  
 USE photoreactivation

**PHOTOREACTIVATION**

*UF* photoreactivating enzyme  
*UF* pre (photoreactivating enzyme)  
 \*BT1 biological repair  
*RT* microorganisms  
*RT* molecular structure  
*RT* nucleic acids  
*RT* radiation injuries  
*RT* ultrastructural changes  
*RT* ultraviolet radiation  
*RT* visible radiation

**PHOTORESISTORS**

\*BT1 resistors

**PHOTOSENSITIVITY**

BT1 sensitivity

**PHOTOSPHERE**

\*BT1 solar atmosphere  
*RT* chromosphere  
*RT* faculae  
*RT* solar granulation  
*RT* sun  
*RT* sunspots

**PHOTOSYNTHESIS**

*1997-06-19*

(From August 1978 till February 1997 BIOMIMETIC PROCESSES was a valid ETDE descriptor.)

*SF* biomimetic processes  
 \*BT1 photochemical reactions  
 BT1 synthesis  
*RT* biophotolysis  
*RT* biosynthesis  
*RT* c4 species  
*RT* calvin cycle species  
*RT* carbon cycle  
*RT* carbon dioxide fixation  
*RT* chlorophyll  
*RT* chloroplasts  
*RT* leaves  
*RT* phosphoenolpyruvate

*RT* photochemical energy storage  
*RT* photochemistry  
*RT* photosynthetic bacteria  
*RT* photosynthetic membranes  
*RT* photosynthetic reaction centers  
*RT* phycobilisomes  
*RT* plastoquinone  
*RT* ribulose diphosphate carboxylase  
*RT* thylakoid membrane proteins

**PHOTOSYNTHETIC BACTERIA**

*INIS: 1993-07-16; ETDE: 1978-04-06*

\*BT1 bacteria  
**NT1** rhodospseudomonas  
**NT1** rhodospirillum  
*RT* photosynthesis

**PHOTOSYNTHETIC MEMBRANES**

*INIS: 1993-08-05; ETDE: 1980-02-11*

BT1 membranes  
*RT* chlorophyll-binding proteins  
*RT* photochemical reactions  
*RT* photosynthesis  
*RT* photosynthetic reaction centers  
*RT* phycobiliproteins  
*RT* thylakoid membrane proteins

**PHOTOSYNTHETIC REACTION CENTERS**

*INIS: 2000-04-12; ETDE: 1982-07-08*

**NT1** chlorophyll-binding proteins  
*RT* chlorophyll  
*RT* cytochromes  
*RT* photosynthesis  
*RT* photosynthetic membranes  
*RT* phycobilins

**PHOTOTRANSISTORS**

\*BT1 transistors  
*RT* photodetectors  
*RT* photodiodes  
*RT* photoelectric cells

**PHOTOTUBES**

**NT1** photomultipliers  
*RT* electron tubes  
*RT* photoelectric cells

**PHOTOVOLTAIC CELLS**

\*BT1 photoelectric cells  
**NT1** solar cells  
**NT2** aluminium arsenide solar cells  
**NT2** back contact solar cells  
**NT2** cadmium arsenide solar cells  
**NT2** cadmium selenide solar cells  
**NT2** cadmium sulfide solar cells  
**NT2** cadmium telluride solar cells  
**NT2** cascade solar cells  
**NT2** concentrator solar cells  
**NT2** copper oxide solar cells  
**NT2** copper selenide solar cells  
**NT2** copper sulfide solar cells  
**NT2** gallium arsenide solar cells  
**NT2** gallium phosphide solar cells  
**NT2** indium phosphide solar cells  
**NT2** indium selenide solar cells  
**NT2** mi solar cells  
**NT2** mis solar cells  
**NT2** mos solar cells  
**NT2** ms solar cells  
**NT2** organic solar cells  
**NT2** pis solar cells  
**NT2** ps solar cells  
**NT2** schottky barrier solar cells  
**NT2** selenium solar cells  
**NT2** silicon arsenide solar cells  
**NT2** silicon solar cells  
**NT3** soc solar cells  
**NT2** zinc phosphide solar cells  
**NT2** zinc sulfide solar cells  
*RT* combined collectors

*RT* photocurrents  
*RT* photoelectrochemical cells  
*RT* photovoltaic conversion  
*RT* photovoltaic effect  
*RT* semiconductor diodes  
*RT* solar cell arrays  
*RT* thermophotovoltaic converters

**PHOTOVOLTAIC CONVERSION**

*1982-12-07*

\*BT1 direct energy conversion  
*RT* organic solar cells  
*RT* photovoltaic cells  
*RT* thermophotovoltaic conversion

**PHOTOVOLTAIC EFFECT**

*UF* riehl-schon model  
 BT1 photoelectric effect  
*RT* energy conversion  
*RT* photovoltaic cells

**PHOTOVOLTAIC POWER PLANTS**

*INIS: 1992-05-29; ETDE: 1975-09-11*

\*BT1 solar power plants  
*RT* microgeneration  
*RT* photovoltaic power supplies  
*RT* solar cell arrays

**PHOTOVOLTAIC POWER SUPPLIES**

*INIS: 1992-05-29; ETDE: 1979-03-27*

*Solar cells or arrays with associated circuitry for small-scale or dispersed applications.*

\*BT1 power supplies  
 \*BT1 solar equipment  
*RT* natural bridges national monument  
*RT* photovoltaic power plants  
*RT* solar cell arrays  
*RT* solar cells

**PHTHALATES**

BT1 carboxylic acid salts  
*RT* phthalic acid esters

**PHTHALAZINES**

\*BT1 pyridazines  
**NT1** luminol

**PHTHALIC ACID**

*UF* benzenedicarboxylic acid-ortho  
*UF* naphthalic acid  
 \*BT1 dicarboxylic acids  
*RT* bromosulphophthalein  
*RT* eosin  
*RT* fluorescein  
*RT* phenolphthalein  
*RT* rhodamines  
*RT* rose bengal

**PHTHALIC ACID ESTERS**

\*BT1 esters  
*RT* phthalates

**PHTHALOCYANINES**

BT1 dyes  
 \*BT1 heterocyclic compounds  
*RT* copper complexes

**PHWR TYPE REACTORS**

*UF* pressurized heavy water cooled/moderated reactor  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
**NT1** agesta reactor  
**NT1** atucha-2 reactor  
**NT1** atucha reactor  
**NT1** bruce-1 reactor  
**NT1** bruce-2 reactor  
**NT1** bruce-3 reactor  
**NT1** bruce-4 reactor  
**NT1** bruce-5 reactor  
**NT1** bruce-6 reactor  
**NT1** bruce-7 reactor

**NT1** bruce-8 reactor  
**NT1** cernavoda-1 reactor  
**NT1** cordoba reactor  
**NT1** cvtr reactor  
**NT1** darlington-1 reactor  
**NT1** darlington-2 reactor  
**NT1** darlington-3 reactor  
**NT1** darlington-4 reactor  
**NT1** douglas point ontario reactor  
**NT1** gentilly-2 reactor  
**NT1** kaiga-1 reactor  
**NT1** kaiga-2 reactor  
**NT1** kaiga-3 reactor  
**NT1** kaiga-4 reactor  
**NT1** kakrapar-1 reactor  
**NT1** kakrapar-2 reactor  
**NT1** kalpakkam-1 reactor  
**NT1** kalpakkam-2 reactor  
**NT1** kanupp reactor  
**NT1** mzfr reactor  
**NT1** narora-1 reactor  
**NT1** narora-2 reactor  
**NT1** npd reactor  
**NT1** pickering-1 reactor  
**NT1** pickering-2 reactor  
**NT1** pickering-3 reactor  
**NT1** pickering-4 reactor  
**NT1** pickering-5 reactor  
**NT1** pickering-6 reactor  
**NT1** pickering-7 reactor  
**NT1** pickering-8 reactor  
**NT1** point lepreau-1 reactor  
**NT1** point lepreau-2 reactor  
**NT1** rajasthan-1 reactor  
**NT1** rajasthan-2 reactor  
**NT1** rajasthan-3 reactor  
**NT1** rajasthan-4 reactor  
**NT1** rajasthan-5 reactor  
**NT1** rajasthan-6 reactor  
**NT1** tarapur-3 reactor  
**NT1** tarapur-4 reactor  
**NT1** wolsung-1 reactor  
**NT1** wolsung-2 reactor  
**NT1** wolsung-3 reactor  
**NT1** wolsung-4 reactor  
**RT** power reactors

### PHYCOBILINS

*INIS: 2000-04-12; ETDE: 1987-04-24*

**BT1** pigments  
**RT** photosynthetic reaction centers  
**RT** phycobiliproteins

### PHYCOBILIPROTEINS

*INIS: 1997-06-19; ETDE: 1987-04-10*

**\*BT1** thylakoid membrane proteins  
**NT1** phycoyanin  
**RT** photosynthetic membranes  
**RT** phycobilins  
**RT** phycobilisomes  
**RT** pigments

### PHYCOBILISOMES

*INIS: 2000-04-12; ETDE: 1982-03-10*

**BT1** cell constituents  
**RT** algae  
**RT** photosynthesis  
**RT** phycobiliproteins  
**RT** phycoyanin  
**RT** pigments

### PHYCOCYANIN

*1997-06-19*

**\*BT1** phycobiliproteins  
**BT1** pigments  
**RT** phycobilisomes

### phycomyces

*1997-01-28*

(Until October 1996 this was a valid descriptor.)

USE eumycota

### PHYSARUM

**\*BT1** fungi

### physical and technical research

#### reactor moscow

*2000-04-12*

USE rpt reactor

### PHYSICAL CHEMISTRY

*1986-04-04*

**BT1** chemistry

**RT** chemical physics

### physical constants test reactor

*2000-04-12*

USE pctr reactor

### physical effort

USE exercise

### PHYSICAL METALLURGY

*INIS: 1977-07-05; ETDE: 1977-10-19*

**BT1** metallurgy

**RT** crystal structure

**RT** mechanical properties

**RT** mechanics

**RT** physical properties

**RT** thermodynamics

### PHYSICAL PROPERTIES

*UF properties (physical)*

**NT1** absorptivity

**NT1** density

**NT2** api gravity

**NT2** bulk density

**NT1** electrical properties

**NT2** capacitance

**NT2** dielectric properties

**NT3** kerr effect

**NT3** permittivity

**NT2** electric conductivity

**NT3** ionic conductivity

**NT4** proton conductivity

**NT3** magnetoresistance

**NT3** photoconductivity

**NT3** superconductivity

**NT2** inductance

**NT2** polarizability

**NT2** thermoelectric properties

**NT1** half-thickness

**NT1** magnetic properties

**NT2** magnetic susceptibility

**NT2** magnetostriction

**NT1** optical properties

**NT2** brightness

**NT2** color

**NT2** emissivity

**NT2** luminosity

**NT2** opacity

**NT2** optical activity

**NT2** reflectivity

**NT2** refractive index

**NT2** spectral reflectance

**NT1** permeability

**NT1** specific surface area

**NT1** thermodynamic properties

**NT2** critical pressure

**NT2** enthalpy

**NT3** absorption heat

**NT3** adsorption heat

**NT3** mixing heat

**NT3** reaction heat

**NT4** combustion heat

**NT4** dissociation heat

**NT4** formation heat

**NT3** solution heat

**NT3** transition heat

**NT4** fusion heat

**NT4** sublimation heat

**NT4** vaporization heat

**NT2** entropy

**NT2** free energy

**NT3** formation free energy

**NT3** surface energy

**NT2** free enthalpy

**NT3** formation free enthalpy

**NT3** oxygen potential

**NT2** partial pressure

**NT2** specific heat

**NT3** electronic specific heat

**NT3** magnetic specific heat

**NT3** nuclear specific heat

**NT2** stored energy

**NT2** thermal conductivity

**NT2** thermal diffusivity

**NT2** transition temperature

**NT3** boiling points

**NT3** critical temperature

**NT3** curie point

**NT3** dew point

**NT3** lambda point

**NT3** melting points

**NT3** neel temperature

**NT2** vapor pressure

**RT** physical metallurgy

**RT** surface properties

**RT** thermal degradation

### PHYSICAL PROTECTION

*INIS: 1976-04-03; ETDE: 1978-03-08*

**RT** biointrusion

**RT** cppnm

**RT** entry control systems

**RT** human intrusion

**RT** intrusion detection systems

**RT** sabotage

**RT** safeguards

**RT** secrecy protection

**RT** security

**RT** security personnel

### PHYSICAL PROTECTION DEVICES

*UF locks (security)*

**NT1** fences

**NT1** security seals

**RT** entry control systems

**RT** identification systems

**RT** motion detection systems

**RT** safeguards

**RT** secrecy protection

**RT** security

**RT** theft

### physical protection of nuclear material, convention

*INIS: 1993-11-09; ETDE: 2002-04-26*

USE cppnm

### PHYSICAL RADIATION EFFECTS

*UF damage (radiation, physical)*

*UF radiation damage (physical)*

**BT1** radiation effects

**NT1** atomic displacements

**NT1** interstitial helium generation

**NT1** interstitial hydrogen generation

**NT1** radiation hardening

**RT** amoeba effect

**RT** damaging neutron fluence

**RT** equivalent fission fluence

**RT** fuel densification

**RT** metamict state

**RT** neutron sputtering

**RT** neutronic damage functions

**PHYSICAL VAPOR DEPOSITION**

INIS: 1992-02-24; ETDE: 1989-10-11

UF pvd

\*BT1 surface coating

RT cathode sputtering

RT vacuum coating

RT vacuum evaporation

RT vapor deposited coatings

RT vapor plating

**PHYSICS**

INIS: 1979-04-27; ETDE: 1976-09-28

Use only for articles of very broad coverage, such as annual reviews, text books, etc.

NT1 astrophysics

NT1 atomic physics

NT1 biophysics

NT1 chemical physics

NT1 geophysics

NT1 high energy physics

NT1 nuclear physics

NT1 reactor physics

NT1 solid state physics

**PHYSIOLOGY**

NT1 electrophysiology

RT anatomy

RT antiandrogens

RT behavior

RT biological functions

RT biological stress

RT blood-brain barrier

RT blood circulation

RT body temperature

RT digestion

RT excretion

RT growth

RT homeostasis

RT hormones

RT metabolism

RT molecular biology

RT reproduction

RT respiration

RT ripening

RT sleep

RT thermoregulation

RT transpiration

**physostigmine**

ETDE: 1981-04-20

USE eserine

**PHYTIC ACID**

\*BT1 lipotropic factors

\*BT1 organic acids

\*BT1 phosphoric acid esters

RT inositol

**phytochrome**

INIS: 1985-07-19; ETDE: 2002-04-26

(Prior to August 1985 this was a valid descriptor.)

USE phytochromes

**PHYTOCHROMES**

1985-07-19

(Prior to August 1985 the singular form was used.)

UF phytochrome

BT1 pigments

\*BT1 proteins

NT1 chlorophyll

**PHYTOHEMAGGLUTININ**

\*BT1 hemagglutinins

BT1 mitogens

\*BT1 mucoproteins

RT cell proliferation

RT lymphocytes

RT mitosis

RT phaseolus

**PHYTOPLANKTON**

INIS: 1993-01-29; ETDE: 1977-01-10

(Until January 1993, this concept was indexed by PLANKTON.)

\*BT1 plankton

BT1 plants

RT algae

RT diatoms

**pi-1016 resonances**

2000-04-12

(Prior to August 1988 this was a valid ETDE descriptor.)

USE mesons

**PI-1300 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-29

\*BT1 pseudoscalar mesons

**pi-1640 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE pi2-1670 mesons

**PI-1770 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 pseudoscalar mesons

**pi condensate**

INIS: 1978-08-14; ETDE: 2002-04-26

USE pion condensation

**PI-K ATOMS**

INIS: 1985-11-19; ETDE: 1985-12-13

A charged pion and an oppositely charged kaon in a Coulomb bound state.

RT bound state

RT kaons

RT mesic atoms

RT pions

**PI-MU ATOMS**

INIS: 1983-02-04; ETDE: 1982-05-24

A charged pion and an oppositely charged muon in a Coulomb bound state.

RT bound state

RT mesic atoms

RT muonic atoms

RT muons

RT pions

**PI2-1670 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by PI-1640 RESONANCES; from then until July 1995 it was indexed by PI2-1680 MESONS.)

UF a3 resonances

UF pi-1640 resonances

UF pi2-1680 mesons

\*BT1 tensor mesons

**pi2-1680 mesons**

INIS: 1995-08-07; ETDE: 1988-02-01

(From December 1987 until July 1995 this was a valid term.)

USE pi2-1670 mesons

**PI2-2100 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 tensor mesons

**piace devices**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE linear theta pinch devices

**PICEANCE CREEK**

2000-04-12

\*BT1 rivers

RT colorado

**PICEANCE CREEK BASIN**

2000-04-12

BT1 watersheds

RT colorado

RT green river formation

RT oil shale deposits

**PICKERING-1 REACTOR**

Pickering, Ontario, Canada.

UF ontario phwr pickering-1 reactor

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

RT pickering site

**PICKERING-2 REACTOR**

Pickering, Ontario, Canada.

UF ontario phwr pickering-2 reactor

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

RT pickering site

**PICKERING-3 REACTOR**

Pickering, Ontario, Canada.

UF ontario phwr pickering-3 reactor

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

RT pickering site

**PICKERING-4 REACTOR**

Pickering, Ontario, Canada.

UF ontario phwr pickering-4 reactor

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

RT pickering site

**PICKERING-5 REACTOR**

1977-11-21

Pickering, Ontario, Canada.

UF ontario phwr pickering-5 reactor

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

RT pickering site

**PICKERING-6 REACTOR**

1977-11-21

Pickering, Ontario, Canada.

UF ontario phwr pickering-6 reactor

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

RT pickering site

**PICKERING-7 REACTOR**

1977-11-21

Pickering, Ontario, Canada.

UF ontario phwr pickering-7 reactor

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

RT pickering site

**PICKERING-8 REACTOR**

1977-11-21

Pickering, Ontario, Canada.

UF ontario phwr pickering-8 reactor

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

RT pickering site

**PICKERING SITE**

INIS: 1993-01-14; ETDE: 1993-05-06

Pickering, Ontario, Canada.

BT1 reactor sites

RT pickering-1 reactor

RT pickering-2 reactor  
 RT pickering-3 reactor  
 RT pickering-4 reactor  
 RT pickering-5 reactor  
 RT pickering-6 reactor  
 RT pickering-7 reactor  
 RT pickering-8 reactor

**picket fence**

USE cusped geometries

**PICKLING**

BT1 surface treatments  
 NT1 corrosion pickling

**PICKUP REACTIONS**

\*BT1 transfer reactions

**PICO AMP BEAM CURRENTS**

*From 10 exp -12 to 10 exp -9 amp.*

\*BT1 beam currents

**PICOLINES**

UF methyl pyridines  
 \*BT1 pyridines  
 NT1 picolinic acid  
 RT pyridoxal

**PICOLINIC ACID**

UF 2-pyridinecarboxylic acid  
 \*BT1 heterocyclic acids  
 \*BT1 picolines

**PICRIC ACID**

UF picronic acid  
 UF tnp  
 UF trinitrophenol  
 \*BT1 chemical explosives  
 \*BT1 nitro compounds  
 \*BT1 phenols  
 RT organic acids

**picronic acid**

USE picric acid

**PICRYL RADICALS**

BT1 radicals

**PIERCE ELECTRON GUNS**

BT1 electron guns  
 \*BT1 electron sources

**PIERCE INSTABILITY**

*1983-09-06*

BT1 instability  
 RT beam-plasma systems  
 RT electron beams

**pierrelatte (cea)**

USE cea pierrelatte

**PIES**

*INIS: 2000-04-12; ETDE: 1979-02-23*

UF project independence evaluation system

BT1 energy models

**PIEZO-ELECTRICITY**

BT1 electricity

**PIEZOMETRY**

*INIS: 1993-03-09; ETDE: 1975-10-01*

BT1 pressure measurement  
 RT hydrology  
 RT pore pressure

**pig discharges**

USE penning discharges

**pig ion sources**

USE penning ion sources

**pige analysis**

*INIS: 1981-12-23; ETDE: 1982-02-09*

*Proton-Induced Gamma Emission analysis.*

USE nuclear reaction analysis  
 USE prompt gamma radiation  
 USE proton reactions

**PIGEONS**

\*BT1 birds  
 RT fowl

**pigment cells**

USE animal cells  
 USE pigments

**PIGMENTS**

*1997-06-19*

(Prior to August 1996 ULTRAMARINE was a valid ETDE descriptor.)

UF biliverdin  
 UF india ink  
 UF pigment cells  
 UF ultramarine  
 UF urobilinogen  
 NT1 bilirubin  
 NT1 carotenoids  
 NT1 cytochromes  
 NT1 hematoporphyrins  
 NT1 heme  
 NT1 hemoglobin  
 NT2 methemoglobin  
 NT1 hemosiderin  
 NT1 melanin  
 NT1 molybdenum blue  
 NT1 myoglobin  
 NT1 phycobilins  
 NT1 phycocyanin  
 NT1 phytochromes  
 NT2 chlorophyll  
 NT1 protoporphyrins  
 NT1 rhodopsin  
 RT paints  
 RT phycobiliproteins  
 RT phycobilisomes  
 RT porphyrins

**pigmi**

*INIS: 2000-04-12; ETDE: 1981-05-18*

(Prior to October 1982, this was a valid ETDE descriptor.)

USE pigmi facilities

**PIGMI FACILITIES**

*INIS: 1982-09-21; ETDE: 1982-10-20*

UF pigmi  
 UF pion generator for medical irradiations  
 \*BT1 meson factories  
 RT accelerator facilities  
 RT irradiation devices  
 RT linear accelerators  
 RT quadrupole linacs

**pigs**

USE swine

**PIK PHYSICAL MODEL REACTOR**

*INIS: 2000-04-12; ETDE: 1999-09-21*

*Petersburg Nuclear Physics Institute, St. Petersburg, Russian Federation.*

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**PIK REACTOR**

*INIS: 1999-09-24; ETDE: 1999-11-30*

*Petersburg Nuclear Physics Institute, St. Petersburg, Russian Federation.*

\*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**pikas**

*1996-07-08*

(Until June 1996 this was a valid descriptor.)

USE mammals

**PILE NEUTRONS**

\*BT1 neutrons

**PILE OSCILLATION TECHNIQUES**

UF oscillation techniques (pile)  
 RT reactivity  
 RT reactor oscillators

**PILE REPLACEMENT TECHNIQUES**

UF substitution techniques  
 RT reactivity

**piles**

*INIS: 2000-04-12; ETDE: 1977-03-08*

USE foundations

**PILGRIM-1 REACTOR**

*Entergy Nuclear Generation Co., Plymouth, Massachusetts, USA.*

UF pilgrim reactor  
 UF plymouth pilgrim power reactor  
 \*BT1 bwr type reactors

**PILGRIM-2 REACTOR**

*Boston Edison Co., Plymouth, Massachusetts, USA. Canceled in 1981 before construction began.*

\*BT1 pwr type reactors

**PILGRIM-3 REACTOR**

*Boston Edison Co., Plymouth, Massachusetts, USA. Canceled in 1974 before construction began.*

\*BT1 pwr type reactors

**pilgrim reactor**

*1990-12-07*

(Prior to December 1990, this was a valid descriptor.)

USE pilgrim-1 reactor

**PILOCARPINE**

\*BT1 alkaloids  
 \*BT1 parasymphathomimetics

**PILOT PLANTS**

UF plants (pilot)  
 BT1 functional models  
 NT1 barstow solar pilot plant  
 NT1 wipp  
 RT demonstration plants  
 RT hef  
 RT industrial plants  
 RT mockup  
 RT pamela plant  
 RT process development units

**pimephales promelas**

*INIS: 1993-07-14; ETDE: 1984-08-20*

USE fathead minnow

**pin stripe event**

*2000-04-12*

*A test made during OPERATION*

*FLINTLOCK.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions  
 USE underground explosions

**PINACOL**

UF tetramethylethylene glycol  
 \*BT1 glycols



**PINCH DEVICES**

- UF* *grom devices*  
*UF* *tesi devices*  
 BT1 thermonuclear devices  
 NT1 field-reversed theta pinch devices  
 NT1 linear pinch devices  
 NT2 linear hard core pinch devices  
 NT2 linear screw pinch devices  
 NT2 linear theta pinch devices  
 NT3 isar devices  
 NT3 scylla devices  
 NT2 linear z pinch devices  
 NT1 toroidal pinch devices  
 NT2 reversed-field pinch devices  
 NT3 artemis device  
 NT3 extrap-t2 device  
 NT3 hbtz devices  
 NT3 mst device  
 NT3 rfx device  
 NT3 tpe-1rm15 device  
 NT3 tpe-rx device  
 NT3 zt-40 devices  
 NT3 zt-p devices  
 NT2 tlp devices  
 NT3 zeta devices  
 NT2 toroidal screw pinch devices  
 NT3 stp-3m device  
 NT3 tpe-2 device  
 NT2 toroidal theta pinch devices  
 NT3 scyllac devices  
 RT limiters  
 RT pinch effect

**PINCH EFFECT**

- NT1 hard core pinch  
 NT1 longitudinal pinch  
 NT2 belt pinch  
 NT1 reverse-field pinch  
 NT1 screw pinch  
 NT1 theta pinch  
 RT limiters  
 RT magnetic compression  
 RT magnetic field configurations  
 RT pinch devices  
 RT plasma  
 RT plasma filament  
 RT plasma focus

**PINEAL GLAND**

- UF* *epiphysis (pineal gland)*  
 \*BT1 glands  
 RT brain  
 RT endocrine glands  
 RT melatonin

**PINEAPPLES**

- INIS: 1993-07-16; ETDE: 1981-04-17*  
 \*BT1 fruits

**PINELLAS PLANT**

- INIS: 1977-09-06; ETDE: 1976-11-17*  
 \*BT1 us doe  
 \*BT1 us erda  
 RT florida

**PINES**

- \*BT1 conifers  
 \*BT1 trees

**PINES-BOHM THEORY**

- UF* *bohm-pines theory*  
 RT electron gas

**pinning force**

- USE magnetic flux

**PINNIPEDS**

- INIS: 1993-05-04; ETDE: 1982-02-08*  
*Fin-footed carnivores.*  
*UF* *seals (mammals)*  
 BT1 aquatic organisms

- \*BT1 mammals

**PINOPHYTA**

- INIS: 1992-02-05; ETDE: 1989-01-09*  
*UF* *gymnosperms*  
 BT1 plants  
 NT1 conifers  
 NT2 cedars  
 NT2 firs  
 NT2 hemlocks  
 NT2 larches  
 NT2 pines  
 NT2 spruces

**pins (fuel)**

- USE fuel pins

**PION BEAMS**

- \*BT1 meson beams

**PION CONDENSATION**

- INIS: 1978-08-14; ETDE: 1977-06-21*  
*UF* *pi condensate*  
 RT bose-einstein condensation  
 RT nuclear matter  
 RT pions

**PION DETECTION**

- \*BT1 radiation detection  
 RT pion dosimetry

**pion-deuteron interactions**

- Use the descriptors below or more specific NTs in their wordblocks.*  
 (Prior to May 1996 this was a valid ETDE descriptor.)

- USE pion-neutron interactions  
 USE pion-proton interactions

**PION DOSIMETRY**

- BT1 dosimetry  
 RT pion detection

**pion-exchange model**

- USE ope model

**pion generator for medical irradiations**

- INIS: 1993-11-09; ETDE: 1981-05-18*  
 USE pigmi facilities

**PION-HYPERON INTERACTIONS**

- \*BT1 meson-hyperon interactions

**PION-KAON INTERACTIONS**

- \*BT1 meson-meson interactions

**pion minus-deuteron interactions**

- 2000-04-12  
 (From February 1975 till May 1996 PION-DEUTERON INTERACTIONS was used for this concept in ETDE.)  
 USE pion minus-neutron interactions  
 USE pion minus-proton interactions

**PION MINUS-NEUTRON INTERACTIONS**

- INIS: 1977-01-25; ETDE: 1976-07-09*  
*UF* *pion minus-deuteron interactions*  
 \*BT1 pion-neutron interactions

**PION MINUS-PROTON INTERACTIONS**

- INIS: 1977-01-25; ETDE: 1976-07-09*  
*UF* *pion minus-deuteron interactions*  
 \*BT1 pion-proton interactions

**PION MINUS REACTIONS**

- INIS: 1977-01-25; ETDE: 1976-07-09*  
 \*BT1 pion reactions

**PION-NEUTRON INTERACTIONS**

(From February 1975 till May 1996 PION-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

- UF* *pion-deuteron interactions*  
 \*BT1 pion-nucleon interactions  
 NT1 pion minus-neutron interactions  
 NT1 pion plus-neutron interactions

**PION-NUCLEON INTERACTIONS**

- \*BT1 meson-nucleon interactions  
 NT1 pion-neutron interactions  
 NT2 pion minus-neutron interactions  
 NT2 pion plus-neutron interactions  
 NT1 pion-proton interactions  
 NT2 pion minus-proton interactions  
 NT2 pion plus-proton interactions

**PION-PION INTERACTIONS**

- \*BT1 meson-meson interactions

**pion plus-deuteron interactions**

- 2000-04-12  
 (From February 1975 till May 1996 PION-DEUTERON INTERACTIONS was used for this concept in ETDE.)  
 USE pion plus-neutron interactions  
 USE pion plus-proton interactions

**PION PLUS-NEUTRON INTERACTIONS**

- INIS: 1977-01-25; ETDE: 1976-07-09*  
*UF* *pion plus-deuteron interactions*  
 \*BT1 pion-neutron interactions

**PION PLUS-PROTON INTERACTIONS**

- INIS: 1977-01-25; ETDE: 1976-07-09*  
*UF* *pion plus-deuteron interactions*  
 \*BT1 pion-proton interactions

**PION PLUS REACTIONS**

- INIS: 1977-01-25; ETDE: 1976-07-09*  
 \*BT1 pion reactions

**PION-PROTON INTERACTIONS**

- (From February 1975 till May 1996 PION-DEUTERON INTERACTIONS was a valid ETDE descriptor.)  
*UF* *pion-deuteron interactions*  
 \*BT1 pion-nucleon interactions  
 NT1 pion minus-proton interactions  
 NT1 pion plus-proton interactions

**PION REACTIONS**

- \*BT1 meson reactions  
 NT1 pion minus reactions  
 NT1 pion plus reactions

**PIONEER SPACE PROBES**

- \*BT1 space vehicles

**PIONIC ATOMS**

- \*BT1 mesic atoms  
 RT pionium

**PIONIUM**

- 1985-11-19  
*Bound state of pions plus and pions minus.*  
 RT bound state  
 RT kaonium  
 RT muonium  
 RT pionic atoms  
 RT pions minus  
 RT pions plus

**PIONIZATION**

- \*BT1 multiple production  
 RT cluster emission model

**PIONS**

- UF* *muon-pion interactions*  
 \*BT1 pseudoscalar mesons

**NT1** cosmic pions  
**NT1** pions minus  
**NT1** pions neutral  
**NT1** pions plus  
*RT* abc effect  
*RT* goldberger-treiman relation  
*RT* pi-k atoms  
*RT* pi-mu atoms  
*RT* pion condensation

**PIONS MINUS**

\*BT1 pions  
*RT* pionium

**PIONS NEUTRAL**

\*BT1 pions  
*RT* primakoff effect

**PIONS PLUS**

\*BT1 pions  
*RT* pionium

**PIPE FITTINGS**

*RT* expansion joints  
*RT* nozzles  
*RT* orifices  
*RT* pipelines  
*RT* pipes  
*RT* plumbing  
*RT* pressure vessels  
*RT* restraints  
*RT* seals  
*RT* valves  
*RT* water faucets

**PIPE JOINTS**

BT1 joints  
*RT* expansion joints  
*RT* plumbing

**pipe restraints**

*INIS*: 1981-02-27; *ETDE*: 1981-03-16  
 USE restraints

**PIPE WHIP**

*INIS*: 1984-01-18; *ETDE*: 1991-03-08  
 Large amplitude mechanical motion of a pipe due to changes in the flow of the fluid in the pipe.  
*RT* dynamic loads  
*RT* pipes  
*RT* steam lines

**pipeline quality gas**

2000-04-12  
 USE high btu gas

**PIPELINES**

(From April 1978 to February 1997 FREIGHT PIPELINES was a valid ETDE descriptor.)  
*UF* freight pipelines  
*SF* energy transport  
*SF* transport (energy)  
**NT1** alaska gas pipeline  
**NT1** alaska oil pipeline  
**NT1** arctic gas pipelines  
**NT1** slurry pipelines  
**NT1** steam lines  
*RT* gas hydrates  
*RT* hydraulic transport  
*RT* natural gas distribution systems  
*RT* pipe fittings  
*RT* pipes  
*RT* pneumatic transport  
*RT* polar gas project  
*RT* positioning  
*RT* rights-of-way  
*RT* scrapers  
*RT* transport

**PIPERAZINES**

\*BT1 piperazines

*RT* amines

**PIPERIDINES**

*UF* hexahydropyridines  
*UF* pentamethyleneimines  
*UF* tmpn  
 \*BT1 amines  
 \*BT1 pyridines  
**NT1** dipyridamole  
**NT1** pethidine  
**NT1** triacetoneamine-n-oxyl

**PIPES**

*UF* tubes (conduits)  
 BT1 tubes  
**NT1** drill pipes  
**NT1** marine risers  
**NT1** penstocks  
*RT* borescopes  
*RT* cylinders  
*RT* diffusers  
*RT* ducts  
*RT* heat pipes  
*RT* pipe fittings  
*RT* pipe whip  
*RT* pipelines  
*RT* plumbing  
*RT* restraints  
*RT* scrapers  
*RT* well casings

**PIPPARD THEORY**

*RT* superconductivity

**piqua nuclear power facility**

USE pnpf reactor

**piqua organic moderated reactor**

USE pnpf reactor

**PIRANI GAGES**

\*BT1 hot-wire gages  
 \*BT1 vacuum gages

**pircon-peck process**

*INIS*: 2000-04-12; *ETDE*: 1980-11-08  
 Desulfurization process which uses 'activated' phosphate rock, ammonia, and sulfur dioxide from flue gas to produce ammoniated phosphate fertilizers.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**PIS SOLAR CELLS**

*INIS*: 2000-04-12; *ETDE*: 1981-07-18  
*UF* polymer-insulator-semiconductor solar cells  
 \*BT1 solar cells  
*RT* organic solar cells

**PISTONS**

*INIS*: 1993-07-23; *ETDE*: 1976-01-07  
 BT1 machine parts  
*RT* internal combustion engines

**PISUM**

*UF* pea plant  
 \*BT1 leguminosae  
*RT* peas

**pitch (reactor parameters)**

USE reactor lattice parameters

**pitch angle**

USE inclination

**PITCHBLENDE**

\*BT1 uraninites

**PITCHES**

The residues from the destructive distillation of tars.

\*BT1 other organic compounds  
*RT* tar

**PITOT TUBES**

*RT* flowmeters

**pits**

*INIS*: 2000-04-12; *ETDE*: 1983-03-23  
 Photo-induced transient spectroscopy. (Prior to March 1997 PHOTO-INDUCED TRANSIENT SPECTROSCOPY was used for this concept in ETDE.)  
 USE spectroscopy

**PITTING CORROSION**

\*BT1 corrosion  
*RT* cathodic protection

**pittsburg-midway solvent refined coal process**

2000-04-12  
 USE src process

**PITTSBURGH**

*INIS*: 1992-07-22; *ETDE*: 1976-09-14  
 \*BT1 pennsylvania  
 BT1 urban areas

**PITTSBURGH ENERGY TECHNOLOGY CENTER**

*INIS*: 1995-02-16; *ETDE*: 1979-03-29  
 \*BT1 us doe

**pittsburgh oxydesulfurization process**

*INIS*: 2000-04-12; *ETDE*: 1978-10-23  
 The process, under development at the Pittsburgh Energy Technology Center, removes inorganic and organic sulfur from coal by bubbling air through a pulverized coal and water mixture at high temperature and pressure.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**PITUITARY GLAND**

*UF* hypophysis  
 \*BT1 endocrine glands  
*RT* acromegaly  
*RT* cushing syndrome  
*RT* homeostasis  
*RT* hypophysectomy  
*RT* hypothalamus  
*RT* lactogens  
*RT* pituitary hormones

**PITUITARY HORMONES**

\*BT1 peptide hormones  
**NT1** acth  
**NT1** gonadotropins  
**NT2** fsh  
**NT2** hcg  
**NT2** lth  
**NT2** luteinizing hormone  
**NT1** liberins  
**NT2** lh-rh  
**NT1** oxytocin  
**NT1** sth  
**NT1** tsh  
**NT1** vasopressin  
*RT* hypophysectomy  
*RT* pituitary gland

**PIVALIC ACID**

*UF* dimethylpropionic acid  
*UF* trimethylacetic acid  
 \*BT1 monocarboxylic acids

**PIXE ANALYSIS**

INIS: 1980-09-12; ETDE: 1980-10-07  
(Prior to October 1980, this concept in ETDE was indexed to X-RAY EMISSION ANALYSIS.)

UF *proton-induced x-ray emission analysis*

\*BT1 x-ray emission analysis

**PL-1 LANGUAGE**

BT1 programming languages

**pl-11 language**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE programming languages

**PLACENTA**

\*BT1 fetal membranes

RT hpl

RT lactogens

RT pregnancy

**PLACERS**

BT1 geologic deposits

RT alluvial deposits

**PLACZEC FUNCTION**

UF *bethe-placzec model*

BT1 functions

RT neutron slowing-down theory

**PLAGES**

\*BT1 solar activity

RT chromosphere

RT faculae

**plagioclase**

INIS: 2000-04-12; ETDE: 1976-03-31

USE anorthosites

**plagioclase**

INIS: 2000-04-12; ETDE: 1976-03-31

USE anorthosites

**PLAICE**

\*BT1 fishes

RT food chains

RT seafood

**plainsboro irl pool type reactor**

USE irl reactor

**PLANARIA**

\*BT1 turbellaria

**PLANCK LAW**

RT quantum mechanics

**PLANCK RADIATION FORMULA**

RT blackbody radiation

RT thermodynamics

**plane-wave born approximation**

USE born approximation

**PLANET-SYSTEM ACCRETION**

UF *accretion (planet-system)*

RT cosmological models

RT galactic evolution

RT solar system evolution

RT star accretion

**PLANETARY ATMOSPHERES**

*Excludes the concept covered by EARTH ATMOSPHERE.*

BT1 atmospheres

NT1 planetary ionospheres

NT1 planetary magnetospheres

**planetary evolution**

INIS: 1976-02-11; ETDE: 1975-11-28

*When appropriate, see also PLANETS or descriptors for specific planets.*

USE solar system evolution

**PLANETARY IONOSPHERES**

INIS: 1978-09-28; ETDE: 1978-10-20

*Excludes the Earth's ionosphere for which use IONOSPHERE.*

\*BT1 planetary atmospheres

**PLANETARY MAGNETOSPHERES**

INIS: 1976-07-30; ETDE: 1976-11-01

*Excludes the Earth's magnetosphere.*

UF *magnetospheres (planetary)*

\*BT1 planetary atmospheres

RT earth magnetosphere

**PLANETARY NEBULAE**

BT1 nebulae

RT stars

**PLANETS**

NT1 earth planet

NT2 northern hemisphere

NT2 southern hemisphere

NT1 jupiter planet

NT1 mars planet

NT1 mercury planet

NT1 neptune planet

NT1 pluto planet

NT1 saturn planet

NT1 uranus planet

NT1 venus planet

RT asteroids

RT protoplanets

RT solar system

**PLANKTON**

*Aquatic organisms that drift or swim weakly.*

BT1 aquatic organisms

NT1 ichthyoplankton

NT1 phytoplankton

NT1 zooplankton

RT bacteria

RT biological materials

RT biomass

RT daphnia

RT protozoa

RT surface waters

RT unicellular algae

**planned communities**

INIS: 2000-04-12; ETDE: 1977-09-19

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE communities

SEE urban areas

**PLANNING**

1996-05-06

*Projected design of plants or equipment as well as projected human efforts.*

NT1 experiment planning

RT advisory committees

RT allocations

RT cancellation

RT computer-aided design

RT construction

RT coordinated research programs

RT decision making

RT decision tree analysis

RT delphi method

RT demonstration programs

RT design

RT emergency plans

RT energy policy

RT environmental policy

RT fault tree analysis

RT feasibility studies

RT forecasting

RT government policies

RT implementation

RT optimization

RT organizational models

RT organizing

RT pert method

RT production

RT regional cooperation

RT research programs

RT schedules

RT site selection

**PLANT BREEDING**

RT adventitious bud technique

RT disease resistance

RT drought resistance

RT irradiation

RT morphological changes

RT mutagens

RT mutants

RT mutations

RT plant growth

RT productivity

RT progeny

RT radiation induced mutants

RT reproduction

RT silviculture

**PLANT CELLS**

UF *cell growth (plant)*

UF *cells (plant)*

UF *protoplasts*

RT cell constituents

RT cell cultures

RT cell flow systems

RT cell wall

RT chloroplasts

RT clone cells

RT cytology

RT delignification

RT in vivo

**PLANT CONDENSATES**

INIS: 2000-04-12; ETDE: 1979-12-10

*Natural gas plant liquids, mostly pentanes and heavier, separated and recovered as liquids at gas inlet separators or scrubbers in natural gas processing plants.*

\*BT1 natural gas liquids

RT liquefied petroleum gases

**plant cultivation**

INIS: 1981-08-31; ETDE: 1981-09-22

USE cultivation techniques

**PLANT DISEASES**

RT chlorosis

RT disease incidence

RT disease resistance

RT mildew

RT parasites

RT tobacco mosaic virus

**plant fossils**

INIS: 1980-09-12; ETDE: 1980-10-07

USE fossils

**PLANT GROWTH**

BT1 growth

RT carbon dioxide fixation

RT drought resistance

RT hydroponic culture

RT kinetin

RT nitrogen fixation

RT plant breeding

RT plants

RT sprouting

**PLANT GROWTH REGULATORS**

NT1 abscisic acid

**NT1** auxins  
**RT** kinetin  
**PLANT SAP**  
*INIS: 1993-07-16; ETDE: 1985-06-25*  
*The fluid that circulates in plants.*  
**\*BT1** biological materials  
**RT** nutrients  
**RT** plants  
**RT** translocation  
**RT** transpiration  
**PLANT STEMS**  
**UF** stem (plant)  
**RT** bark  
**RT** plants  
**RT** straw  
**PLANT TISSUES**  
*1996-03-12*  
**SF** tissues  
**NT1** bark  
**NT1** endosperm  
**NT1** meristems  
**NT1** mycelium  
**RT** animal tissues  
**RT** chlorosis  
**PLANTS**  
*1996-04-16*  
**UF** vegetation  
**NT1** algae  
**NT2** chlorophycota  
**NT3** acetabularia  
**NT3** chlamydomonas  
**NT3** chlorella  
**NT3** nitella  
**NT3** scenedesmus  
**NT2** chromophycota  
**NT3** diatoms  
**NT3** fucus  
**NT3** laminaria  
**NT2** lichens  
**NT2** rhodophycota  
**NT3** porphyra  
**NT2** ulva  
**NT2** unicellular algae  
**NT3** chlamydomonas  
**NT3** chlorella  
**NT3** euglena  
**NT3** scenedesmus  
**NT1** bryophyta  
**NT2** mosses  
**NT1** c4 species  
**NT1** calvin cycle species  
**NT1** euglenophycota  
**NT2** euglena  
**NT1** ferns  
**NT1** forage  
**NT1** fungi  
**NT2** eumycota  
**NT3** aspergillus  
**NT3** fusarium  
**NT3** lichens  
**NT3** mildew  
**NT3** neurospora  
**NT3** penicillium  
**NT3** phanerochaete  
**NT3** rhizopus  
**NT3** trichoderma  
**NT4** trichoderma viride  
**NT3** ustilago  
**NT3** yeasts  
**NT4** candida  
**NT4** saccharomyces  
**NT5** saccharomyces cerevisiae  
**NT4** torula  
**NT2** mushrooms  
**NT2** myxomycetes  
**NT2** physarum

**NT2** polyporus versicolor  
**NT1** herbs  
**NT2** marihuana  
**NT2** meadow foam  
**NT1** magnoliophyta  
**NT2** liliopsida  
**NT3** allium sativum  
**NT3** aloe  
**NT3** banana plants  
**NT3** buckwheat  
**NT3** cattails  
**NT3** coconut palms  
**NT3** gramineae  
**NT4** bamboo  
**NT4** cereals  
**NT5** barley  
**NT5** maize  
**NT5** millet  
**NT5** oats  
**NT5** rice  
**NT5** rye  
**NT5** sorghum  
**NT5** wheat  
**NT4** reeds  
**NT5** sugar cane  
**NT3** liliium  
**NT3** oil palms  
**NT3** onions  
**NT4** allium cepa  
**NT3** tradescantia  
**NT3** water hyacinths  
**NT2** magnoliopsida  
**NT3** arabidopsis  
**NT3** beech trees  
**NT3** beets  
**NT4** sugar beets  
**NT3** birches  
**NT3** brassica  
**NT4** kale  
**NT3** buffalo gourd  
**NT3** cacao trees  
**NT3** cacti  
**NT3** capsicum  
**NT3** carnations  
**NT3** carrots  
**NT3** cassava  
**NT3** chenopodiaceae  
**NT3** chestnut trees  
**NT3** citrus  
**NT3** coffee plants  
**NT3** corchorus  
**NT4** jute  
**NT3** cotton plants  
**NT3** crepis  
**NT3** cucumbers  
**NT3** digitalis  
**NT3** eucalyptuses  
**NT3** euphorbia  
**NT4** castor  
**NT4** milkweed  
**NT4** rubber trees  
**NT5** guayule  
**NT5** hevea  
**NT3** flax plants  
**NT3** jojoba  
**NT3** leguminosae  
**NT4** alfalfa  
**NT4** clover  
**NT4** glycine hispida  
**NT4** locust trees  
**NT4** mesquite  
**NT4** phaseolus  
**NT4** pisum  
**NT4** vicia  
**NT4** vigna  
**NT3** lettuce  
**NT3** mangroves  
**NT3** maples  
**NT3** marihuana

**NT3** meadow foam  
**NT3** nicotiana  
**NT3** oaks  
**NT3** olive trees  
**NT3** papaver somniferum  
**NT3** pecan trees  
**NT3** poplars  
**NT4** aspens  
**NT4** cottonwoods  
**NT3** radishes  
**NT3** ranunculaceae  
**NT3** rosaceae  
**NT4** strawberries  
**NT3** sesamum indicum  
**NT3** solanum  
**NT4** solanum tuberosum  
**NT3** spinach  
**NT3** sunflowers  
**NT3** sweet gums  
**NT3** sycamores  
**NT3** tea plants  
**NT3** willows  
**NT3** yams  
**NT1** medicinal plants  
**NT2** aloe  
**NT2** castor  
**NT2** digitalis  
**NT2** papaver somniferum  
**NT1** ornamental plants  
**NT1** phytoplankton  
**NT1** pinophyta  
**NT2** conifers  
**NT3** cedars  
**NT3** firs  
**NT3** hemlocks  
**NT3** larches  
**NT3** pines  
**NT3** spruces  
**NT1** preferred species  
**NT1** seaweeds  
**NT2** fucus  
**NT2** laminaria  
**NT1** shrubs  
**NT2** jojoba  
**NT1** transgenic plants  
**NT1** trees  
**NT2** beech trees  
**NT2** birches  
**NT2** cacao trees  
**NT2** cedars  
**NT2** chestnut trees  
**NT2** coconut palms  
**NT2** deciduous trees  
**NT2** eucalyptuses  
**NT2** firs  
**NT2** fruit trees  
**NT2** locust trees  
**NT2** mangroves  
**NT2** maples  
**NT2** mesquite  
**NT2** oaks  
**NT2** oil palms  
**NT2** olive trees  
**NT2** pecan trees  
**NT2** pines  
**NT2** poplars  
**NT3** aspens  
**NT3** cottonwoods  
**NT2** rubber trees  
**NT3** guayule  
**NT3** hevea  
**NT2** spruces  
**NT2** sweet gums  
**NT2** sycamores  
**NT2** willows  
**NT1** vegetables  
**NT2** beans  
**NT3** mungbeans  
**NT2** beets

**NT3** sugar beets  
**NT2** brassica  
**NT3** kale  
**NT2** carrots  
**NT2** cucumbers  
**NT2** garlic  
**NT2** lettuce  
**NT2** onions  
**NT3** allium cepa  
**NT2** peas  
**NT2** peppers  
**NT2** potatoes  
**NT2** radishes  
**NT2** soybeans  
**NT2** spinach  
**NT2** yams  
**NT1** weeds  
*RT* agriculture  
*RT* alkaloids  
*RT* aquatic organisms  
*RT* biological extinction  
*RT* biological materials  
*RT* biology  
*RT* biomass  
*RT* botany  
*RT* buds  
*RT* bulbs  
*RT* canopies  
*RT* chlorophyll  
*RT* endangered species  
*RT* essential oils  
*RT* fertilizers  
*RT* flowers  
*RT* fruits  
*RT* ground cover  
*RT* interception  
*RT* leaves  
*RT* plant growth  
*RT* plant sap  
*RT* plant stems  
*RT* rangelands  
*RT* renewable energy sources  
*RT* revegetation  
*RT* roots  
*RT* seedlings  
*RT* seeds  
*RT* soils  
*RT* species diversity  
*RT* sprouting  
*RT* stomata  
*RT* symbiosis  
*RT* throughfall  
*RT* translocation  
*RT* transpiration  
*RT* tubers  
*RT* vegetative propagation

**plants (industrial)**

USE industrial plants

**plants (pilot)**

USE pilot plants

**plants (power)**

USE power plants

**PLAQUE FORMATION**

*INIS: 1978-04-21; ETDE: 1978-07-06*

*RT* bacteriophages  
*RT* bioassay  
*RT* clone cells  
*RT* viruses

**PLASMA**

**NT1** ambiplasma  
**NT1** cold plasma  
**NT1** collisional plasma  
**NT1** collisionless plasma  
**NT1** equilibrium plasma  
**NT1** fissioning plasma

**NT1** high-beta plasma  
**NT1** homogeneous plasma  
**NT1** hot plasma  
**NT1** inhomogeneous plasma  
**NT1** laser-produced plasma  
**NT1** low-beta plasma  
**NT1** medium-beta plasma  
**NT1** non-equilibrium plasma  
**NT1** optically thick plasma  
**NT1** optically thin plasma  
**NT1** quantum plasma  
**NT1** quiescent plasma  
**NT1** relativistic plasma  
**NT1** rotating plasma  
**NT1** solid-state plasma  
**NT2** electron-hole droplets  
*RT* aspect ratio  
*RT* beam-plasma systems  
*RT* bohm criterion  
*RT* boltzmann-vaslov equation  
*RT* bootstrap current  
*RT* breakeven  
*RT* compact torus  
*RT* distribution functions  
*RT* electric arcs  
*RT* gas blankets  
*RT* grad-shafranov equation  
*RT* guiding-center approximation  
*RT* holtsmark theory  
*RT* impurities  
*RT* ionic composition  
*RT* ionized gases  
*RT* kinetic equations  
*RT* langmuir frequency  
*RT* loss cone  
*RT* magnetic field configurations  
*RT* magnetic field ripples  
*RT* magnetic islands  
*RT* magnetohydrodynamics  
*RT* mass balance  
*RT* neoclassical transport theory  
*RT* non-inductive current drive  
*RT* pinch effect  
*RT* plasma acceleration  
*RT* plasma confinement  
*RT* plasma density  
*RT* plasma diagnostics  
*RT* plasma diamagnetism  
*RT* plasma drift  
*RT* plasma eaters  
*RT* plasma expansion  
*RT* plasma filament  
*RT* plasma focus  
*RT* plasma heating  
*RT* plasma impurities  
*RT* plasma instability  
*RT* plasma production  
*RT* plasma radial profiles  
*RT* plasma rings  
*RT* plasma scrape-off layer  
*RT* plasma simulation  
*RT* plasma waves  
*RT* plasmoids  
*RT* sawtooth oscillations  
*RT* solar wind  
*RT* spitzer theory  
*RT* voigt effect  
*RT* wall effects

**plasma (blood)**

USE blood plasma

**plasma (quark)**

*INIS: 2000-04-12; ETDE: 1983-09-15*

USE quark matter

**PLASMA ACCELERATION**

**BT1** acceleration  
*RT* plasma  
*RT* plasma guns

*RT* plasma jets

**plasma accelerators**

USE plasma guns

**PLASMA ARC SPRAYING**

\***BT1** spray coating

**PLASMA ARC WELDING**

\***BT1** arc welding

**PLASMA BEAM INJECTION**

**BT1** beam injection

**PLASMA BETATRONS**

*UF* budker accelerators  
 \***BT1** collective accelerators  
*RT* betatrons

**PLASMA CELLS**

*UF* plasmocytes  
 \***BT1** connective tissue cells  
*RT* bone marrow  
*RT* lymphocytes

**PLASMA CENTRIFUGES**

*INIS: 1985-07-23; ETDE: 1989-09-15*

*UF* vacuum arc centrifuges  
 \***BT1** centrifuges  
*RT* isotope separation

**plasma clearance**

USE blood-plasma clearance

**PLASMA CONFINEMENT**

*1996-04-16*

(Prior to January 1983 this concept was indexed by CONFINEMENT.)

**BT1** confinement  
**NT1** inertial confinement  
**NT1** magnetic confinement  
**NT2** h-mode plasma confinement  
**NT2** l-mode plasma confinement  
*RT* confinement time  
*RT* gas blankets  
*RT* limiters  
*RT* magnetic surfaces  
*RT* marfe  
*RT* mass balance  
*RT* particle losses  
*RT* plasma  
*RT* plasma disruption  
*RT* plateau regime  
*RT* sawtooth oscillations  
*RT* thermal barriers  
*RT* tritium recovery

**PLASMA CORE ASSEMBLY**

*INIS: 1977-04-07; ETDE: 1975-08-19*

*LANL, Los Alamos, New Mexico, USA. Shut down in 1987.*

*UF* lasl cold critical assembly  
*UF* pca-lasl facility  
 \***BT1** gas fueled reactors  
 \***BT1** zero power reactors

**plasma currents**

*ETDE: 2002-04-26*

USE electric currents

**PLASMA DENSITY**

*UF* density (plasma)  
*RT* debye length  
*RT* lawson criterion  
*RT* plasma  
*RT* plasma expansion  
*RT* plasma focus

**PLASMA DIAGNOSTICS**

*UF* diagnostics (fusion)  
*RT* limiters  
*RT* neutral particle analyzers  
*RT* plasma

RT plasma eaters  
RT sonic probes

**PLASMA DIAMAGNETISM**

\*BT1 diamagnetism  
RT plasma

**plasma diodes**

USE thermionic diodes

**PLASMA DISRUPTION**

1983-09-06

RT confinement time  
RT nonlinear problems  
RT particle losses  
RT plasma confinement  
RT plasma macroinstabilities  
RT sawtooth oscillations  
RT tearing instability  
RT tokamak devices

**PLASMA DRIFT**

UF drift (plasma)  
RT ambipolar diffusion  
RT drift instability  
RT plasma  
RT plasma expansion  
RT plasma fluid equations

**PLASMA EATERS**

\*BT1 electric probes  
\*BT1 flowmeters  
RT electron density  
RT flow rate  
RT plasma  
RT plasma diagnostics

**plasma erosion opening switches**

INIS: 1993-11-09; ETDE: 2002-04-26

USE plasma switches

**PLASMA EXPANSION**

BT1 expansion  
RT plasma  
RT plasma density  
RT plasma drift  
RT plasma instability

**PLASMA FILAMENT**

UF filament (plasma)  
RT pinch effect  
RT plasma  
RT plasma focus  
RT plasma jets

**PLASMA FLUID EQUATIONS**

INIS: 1988-11-16; ETDE: 1988-12-05

UF fluid equations (plasma)  
\*BT1 boltzmann-vlasov equation  
RT magnetohydrodynamics  
RT moments method  
RT plasma drift  
RT plasma simulation

**PLASMA FOCUS**

RT pinch effect  
RT plasma  
RT plasma density  
RT plasma filament  
RT plasma focus devices  
RT plasma guns

**PLASMA FOCUS DEVICES**

1999-07-26

\*BT1 open plasma devices  
NT1 pf-1000 device  
RT plasma focus

**plasma frequency**

USE langmuir frequency

**PLASMA FURNACES**

BT1 furnaces

RT arc furnaces

**PLASMA GUNS**

UF guns (plasma)  
UF plasma accelerators  
RT impact fusion drivers  
RT plasma acceleration  
RT plasma focus  
RT plasma jets  
RT plasma rings

**PLASMA HEATING**

BT1 heating  
NT1 adiabatic compression heating  
NT1 beam injection heating  
NT1 high-frequency heating  
NT2 ecr heating  
NT2 icr heating  
NT2 lower hybrid heating  
NT2 magnetic-pumping heating  
NT3 acoustic heating  
NT3 collisional heating  
NT3 transit-time magnetic pumping  
NT1 joule heating  
NT2 current-drive heating  
NT1 laser-radiation heating  
NT1 shock heating  
NT1 turbulent heating  
RT bernstein mode  
RT microwave heating  
RT mode conversion  
RT plasma  
RT plasma potential  
RT plasma production  
RT thermonuclear devices

**PLASMA IMPURITIES**

INIS: 1995-07-03; ETDE: 1990-05-16

BT1 impurities  
RT divertors  
RT limiters  
RT particle influx  
RT plasma  
RT plasma scrape-off layer  
RT wall effects

**PLASMA INSTABILITY**

BT1 instability  
NT1 absolute instabilities  
NT1 convective instabilities  
NT1 decay instability  
NT1 explosive instability  
NT1 gravitational instability  
NT1 plasma macroinstabilities  
NT2 ballooning instability  
NT2 edge localized modes  
NT2 fishbone instability  
NT2 flute instability  
NT2 helical instability  
NT2 helmholtz instability  
NT2 kink instability  
NT2 parametric instabilities  
NT2 sausage instability  
NT2 tearing instability  
NT2 tilting instability  
NT2 trapped-particle instability  
NT2 whistler instability  
NT1 plasma microinstabilities  
NT2 bump-in-tail instability  
NT2 cyclotron instability  
NT2 drift instability  
NT2 hose instability  
NT2 ion wave instability  
NT2 loss cone instability  
NT2 negative mass instability  
NT2 two-stream instability  
RT dispersion relations  
RT instability growth rates  
RT marfe  
RT mercier criterion

RT mhd equilibrium  
RT negative mass effect  
RT nonlinear problems  
RT plasma  
RT plasma expansion  
RT suydam criterion

**PLASMA JETS**

RT plasma acceleration  
RT plasma filament  
RT plasma guns

**plasma lens**

INIS: 1984-04-04; ETDE: 2002-04-26

USE electromagnetic lenses

**PLASMA MACROINSTABILITIES**

UF mhd instabilities (plasma)  
\*BT1 plasma instability  
NT1 ballooning instability  
NT1 edge localized modes  
NT1 fishbone instability  
NT1 flute instability  
NT1 helical instability  
NT1 helmholtz instability  
NT1 kink instability  
NT1 parametric instabilities  
NT1 sausage instability  
NT1 tearing instability  
NT1 tilting instability  
NT1 trapped-particle instability  
NT1 whistler instability  
RT decay instability  
RT plasma disruption  
RT rayleigh-taylor instability

**PLASMA MICROINSTABILITIES**

\*BT1 plasma instability  
NT1 bump-in-tail instability  
NT1 cyclotron instability  
NT1 drift instability  
NT1 hose instability  
NT1 ion wave instability  
NT1 loss cone instability  
NT1 negative mass instability  
NT1 two-stream instability  
RT decay instability

**plasma opening switches**

INIS: 1986-01-21; ETDE: 2002-06-13

USE plasma switches

**plasma oscillations**

USE plasma waves

**PLASMA POTENTIAL**

INIS: 1988-11-16; ETDE: 1988-12-05

The electrostatic potential of a plasma along a magnetic field line.

BT1 electric potential  
RT charge exchange  
RT magnetic mirror configurations  
RT magnetic mirrors  
RT plasma heating

**PLASMA PRESSURE**

UF pressure (plasma)  
RT beta ratio

**PLASMA PRODUCTION**

UF production (plasma)  
RT high-frequency discharges  
RT ionization  
RT laser-produced plasma  
RT plasma  
RT plasma heating  
RT thermonuclear devices

**PLASMA RADIAL PROFILES**

INIS: 1989-09-14; ETDE: 1989-10-16

UF radial profiles (plasma)  
RT magnetic flux coordinates

RT magnetic surfaces  
 RT plasma  
 RT spatial distribution  
 RT stellarators  
 RT tokamak devices

**PLASMA RINGS**

INIS: 1984-02-22; ETDE: 1984-03-06

RT compact torus  
 RT plasma  
 RT plasma guns

**PLASMA SCRAPE-OFF LAYER**

1983-09-06

\*BT1 boundary layers  
 RT plasma  
 RT plasma impurities

**PLASMA SEEDING**

1976-10-29

Restricted to MHD.

UF seeding (plasma)  
 RT ionization  
 RT ionization potential  
 RT mhd channels  
 RT mhd generators  
 RT seed recovery  
 RT seed-slag interactions  
 RT spent seed

**PLASMA SHEATH**

RT boundary layers  
 RT marfe  
 RT reentry

**PLASMA SHEET**

1999-04-28

\*BT1 earth magnetosphere  
 RT magnetotail

**PLASMA SIMULATION**

UF models (plasma)  
 BT1 simulation  
 RT functional models  
 RT plasma  
 RT plasma fluid equations

**plasma substitutes**

INIS: 2000-04-12; ETDE: 1981-04-20

USE blood substitutes

**PLASMA SURFACE WAVES**

2001-01-08

UF surface waves (plasma)  
 BT1 plasma waves  
 RT boundary layers  
 RT hydromagnetic waves  
 RT wave propagation

**PLASMA SWITCHES**

INIS: 1986-01-21; ETDE: 1983-04-28

Switches employing a current-conducting plasma for operation.

UF peos  
 UF plasma erosion opening switches  
 UF plasma opening switches  
 UF reflex switches  
 \*BT1 switches  
 RT pulse generators  
 RT pulse techniques

**plasma temperature**

INIS: 1984-04-04; ETDE: 2002-04-26

USE electron temperature  
 USE ion temperature

**plasma-wall interactions**

INIS: 1984-04-04; ETDE: 2002-04-26

USE wall effects

**PLASMA WAVES**

UF electrostatic waves  
 UF langmuir oscillations

UF oscillations (plasma)  
 UF plasma oscillations  
 SF tonks-dattner resonance  
 NT1 electron plasma waves  
 NT1 ion waves  
 NT2 ion acoustic waves  
 NT2 ion plasma waves  
 NT1 plasma surface waves  
 RT alfvén waves  
 RT beat wave accelerators  
 RT decay instability  
 RT dispersion relations  
 RT frequency mixing  
 RT harmonics  
 RT hydromagnetic waves  
 RT landau damping  
 RT normal-mode analysis  
 RT oscillation modes  
 RT plasma  
 RT plasmons  
 RT tonks-langmuir theory  
 RT wakefield accelerators  
 RT whistler instability

**PLASMAPAUSE**

1999-04-28

\*BT1 earth magnetosphere  
 RT boundary layers  
 RT international magnetospheric study  
 RT loss cone  
 RT magnetotail  
 RT plasmasphere

**PLASMASPHERE**

1999-04-28

\*BT1 earth magnetosphere  
 RT international magnetospheric study  
 RT magnetotail  
 RT plasmopause

**PLASMATRONS**

BT1 electron tubes  
 NT1 duoplasmatrons  
 NT1 triplasmatrons

**PLASMIDS**

INIS: 1997-06-17; ETDE: 1977-12-22

UF paragenes  
 BT1 cell constituents  
 RT cytoplasm  
 RT genes  
 RT genetics  
 RT transposons

**plasmin**

INIS: 1993-08-26; ETDE: 1981-01-12

USE fibrinolytin

**PLASMINOGEN**

INIS: 1984-05-24; ETDE: 1981-04-20

\*BT1 blood coagulation factors  
 \*BT1 fibrinolytic agents

**plasmocytes**

USE plasma cells

**PLASMODIUM**

\*BT1 sporozoa  
 RT malaria

**PLASMOIDS**

RT plasma

**PLASMONS**

BT1 quasi particles  
 RT plasma waves  
 RT solid-state plasma

**plaster of paris**

USE gypsum cements

**PLASTIC FOAMS**

\*BT1 foams

\*BT1 organic polymers

**plastic properties**

USE plasticity

**plastic scintillation counters**

USE plastic scintillation detectors

**PLASTIC SCINTILLATION DETECTORS**

UF plastic scintillation counters  
 \*BT1 solid scintillation detectors  
 RT plastic scintillators

**PLASTIC SCINTILLATORS**

BT1 phosphors  
 RT anthracene  
 RT plastic scintillation detectors  
 RT terphenyls

**PLASTIC SURGERY**

\*BT1 surgery  
 RT transplants

**PLASTICITY**

UF plastic properties  
 BT1 mechanical properties  
 RT creep  
 RT deformation  
 RT ductility  
 RT flow stress  
 RT thixotropy

**PLASTICIZERS**

A chemical such as castor oil or linseed oil added to rubbers, resins, or other material to impart flexibility, workability, or stretchability.

RT linseed oil  
 RT organic polymers  
 RT rubbers

**PLASTICS**

1996-08-05

(Until July 1994 this concept was indexed by ORGANIC POLYMERS.)

UF laminac  
 \*BT1 organic polymers  
 \*BT1 petrochemicals  
 \*BT1 synthetic materials  
 NT1 aramids  
 NT1 bakelite  
 NT1 formvar  
 NT1 lucite  
 NT1 mylar  
 NT1 nylon  
 NT1 perspex  
 NT1 plexiglas  
 NT1 polystyrene  
 NT1 polyurethanes  
 NT2 halthane  
 NT1 reinforced plastics  
 NT1 tedlar  
 NT1 teflon  
 NT1 thermoplastics  
 RT concrete-plastic composites  
 RT plastics industry

**PLASTICS INDUSTRY**

INIS: 2000-04-12; ETDE: 1978-11-14

BT1 industry  
 RT plastics

**PLASTOQUINONE**

INIS: 2000-04-12; ETDE: 1981-07-18

\*BT1 benzoquinones  
 RT photosynthesis

**PLATE TECTONICS**

INIS: 2000-04-12; ETDE: 1976-08-04

Global tectonics based on an earth model characterized by a small number (10-25) of

*large, broad, thick plates (blocks composed of areas of both continental and oceanic crust and mantle) each of which "floats" on some viscous underlayer in the mantle and moves more or less independently of the others.*

BT1 tectonics  
RT earth crust  
RT gondwana  
RT paleomagnetism  
RT sea-floor spreading  
RT subduction zones

**PLATEAU REGIME**

*INIS: 1982-11-30; ETDE: 1980-04-14*

*The collision frequency regime characterized by an effective Coulomb scattering rate equal to or greater than the poloidal transit frequency, but a mean free path less than the connection length. In this regime the transport coefficients are independent of collision frequency.*

RT neoclassical transport theory  
RT plasma confinement  
RT tokamak devices  
RT trapping

**PLATES**

*Thicker than sheets or foils.*

RT foils  
RT prismatic configuration  
RT rectangular configuration  
RT shape  
RT sheets  
RT slabs

**plates (fuel)**

USE fuel plates

**platform mounted nuclear plant**

USE offshore nuclear power plants

**PLATING**

*For the process only.*

\*BT1 surface coating  
NT1 electroplating  
NT1 vapor plating  
RT cladding  
RT rolling

**plating solutions**

*INIS: 1992-04-02; ETDE: 1986-01-24*

USE process solutions

**PLATINUM**

\*BT1 platinum metals

**PLATINUM 168**

*INIS: 1986-05-12; ETDE: 1986-07-03*

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 platinum isotopes

**PLATINUM 169**

*INIS: 1986-05-12; ETDE: 1986-07-03*

\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 platinum isotopes

**PLATINUM 170**

*INIS: 1986-05-12; ETDE: 1984-05-08*

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 platinum isotopes

**PLATINUM 171**

*INIS: 1986-05-12; ETDE: 1982-03-10*

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 platinum isotopes

**PLATINUM 172**

*INIS: 1985-06-07; ETDE: 1982-03-10*

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 platinum isotopes

**PLATINUM 173**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 platinum isotopes

**PLATINUM 174**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 platinum isotopes

**PLATINUM 175**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 platinum isotopes  
\*BT1 seconds living radioisotopes

**PLATINUM 176**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 platinum isotopes  
\*BT1 seconds living radioisotopes

**PLATINUM 177**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 platinum isotopes  
\*BT1 seconds living radioisotopes

**PLATINUM 178**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 platinum isotopes  
\*BT1 seconds living radioisotopes

**PLATINUM 179**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 platinum isotopes  
\*BT1 seconds living radioisotopes

**PLATINUM 180**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 platinum isotopes  
\*BT1 seconds living radioisotopes

**PLATINUM 181**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei

\*BT1 heavy nuclei  
\*BT1 platinum isotopes  
\*BT1 seconds living radioisotopes

**PLATINUM 182**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 platinum isotopes

**PLATINUM 183**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 platinum isotopes  
\*BT1 seconds living radioisotopes

**PLATINUM 184**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 platinum isotopes

**PLATINUM 185**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 platinum isotopes

**PLATINUM 186**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 platinum isotopes

**PLATINUM 187**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 platinum isotopes

**PLATINUM 188**

\*BT1 alpha decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 platinum isotopes

**PLATINUM 189**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 platinum isotopes

**PLATINUM 190**

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 platinum isotopes  
\*BT1 years living radioisotopes



**PLATINUM 190 TARGET***INIS: 1979-09-18; ETDE: 1979-10-23*

BT1 targets

**PLATINUM 191**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 platinum isotopes

**PLATINUM 192**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 platinum isotopes  
 \*BT1 stable isotopes

**PLATINUM 192 TARGET***INIS: 1978-01-13; ETDE: 1977-06-02*

BT1 targets

**PLATINUM 193**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 platinum isotopes  
 \*BT1 years living radioisotopes

**PLATINUM 194**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 platinum isotopes  
 \*BT1 stable isotopes

**PLATINUM 194 TARGET***ETDE: 1976-07-09*

BT1 targets

**PLATINUM 195**

\*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 platinum isotopes  
 \*BT1 stable isotopes

**PLATINUM 195 TARGET***ETDE: 1976-07-09*

BT1 targets

**PLATINUM 196**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 platinum isotopes  
 \*BT1 stable isotopes

**PLATINUM 196 TARGET***ETDE: 1976-07-09*

BT1 targets

**PLATINUM 197**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 platinum isotopes

**PLATINUM 198**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 platinum isotopes  
 \*BT1 stable isotopes

**PLATINUM 198 TARGET***ETDE: 1976-07-09*

BT1 targets

**PLATINUM 199**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 platinum isotopes  
 \*BT1 seconds living radioisotopes

**PLATINUM 200**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 platinum isotopes

**PLATINUM 201**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 platinum isotopes

**PLATINUM 202**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 platinum isotopes

**PLATINUM 203**

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 platinum isotopes

**PLATINUM 204**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 platinum isotopes

**PLATINUM 205**

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 platinum isotopes

**PLATINUM 206**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 platinum isotopes

**PLATINUM 207**

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 platinum isotopes

**PLATINUM 208**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 platinum isotopes

**PLATINUM ADDITIONS***Alloys containing not more than 1% Pt are listed here.*

RT platinum alloys

**PLATINUM ALLOYS***Alloys containing more than 1% Pt.*

\*BT1 platinum metal alloys  
 NT1 platinum base alloys  
 RT platinum additions

**PLATINUM ARSENIDES***INIS: 2000-04-12; ETDE: 1985-08-09*

\*BT1 arsenides  
 \*BT1 platinum compounds

**PLATINUM BASE ALLOYS**

\*BT1 platinum alloys

**PLATINUM BROMIDES**

\*BT1 bromides  
 \*BT1 platinum compounds

**PLATINUM CARBIDES**

\*BT1 carbides

\*BT1 platinum compounds

**PLATINUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 platinum compounds

**PLATINUM COMPLEXES**

\*BT1 transition element complexes

**PLATINUM COMPOUNDS***1997-06-19*

BT1 transition element compounds  
 NT1 platinum arsenides  
 NT1 platinum bromides  
 NT1 platinum carbides  
 NT1 platinum chlorides  
 NT1 platinum fluorides  
 NT1 platinum hydrides  
 NT1 platinum hydroxides  
 NT1 platinum iodides  
 NT1 platinum oxides  
 NT1 platinum phosphides  
 NT1 platinum silicides  
 NT1 platinum sulfates  
 NT1 platinum sulfides  
 NT1 platinum tellurides

**PLATINUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 platinum compounds

**PLATINUM HYDRIDES***1979-11-02*

\*BT1 hydrides  
 \*BT1 platinum compounds

**PLATINUM HYDROXIDES***INIS: 2000-04-12; ETDE: 1979-07-24*

\*BT1 hydroxides  
 \*BT1 platinum compounds

**PLATINUM IODIDES**

\*BT1 iodides  
 \*BT1 platinum compounds

**PLATINUM IONS**

\*BT1 ions

**PLATINUM ISOTOPES***1999-07-16*

BT1 isotopes  
 NT1 platinum 168  
 NT1 platinum 169  
 NT1 platinum 170  
 NT1 platinum 171  
 NT1 platinum 172  
 NT1 platinum 173  
 NT1 platinum 174  
 NT1 platinum 175  
 NT1 platinum 176  
 NT1 platinum 177  
 NT1 platinum 178  
 NT1 platinum 179  
 NT1 platinum 180  
 NT1 platinum 181  
 NT1 platinum 182  
 NT1 platinum 183  
 NT1 platinum 184  
 NT1 platinum 185  
 NT1 platinum 186  
 NT1 platinum 187  
 NT1 platinum 188  
 NT1 platinum 189  
 NT1 platinum 190  
 NT1 platinum 191  
 NT1 platinum 192  
 NT1 platinum 193  
 NT1 platinum 194  
 NT1 platinum 195  
 NT1 platinum 196  
 NT1 platinum 197  
 NT1 platinum 198

NT1 platinum 199  
 NT1 platinum 200  
 NT1 platinum 201  
 NT1 platinum 202  
 NT1 platinum 203  
 NT1 platinum 204  
 NT1 platinum 205  
 NT1 platinum 206  
 NT1 platinum 207  
 NT1 platinum 208

**PLATINUM METAL ALLOYS**

1995-02-27

\*BT1 transition element alloys  
 NT1 iridium alloys  
 NT2 iridium additions  
 NT2 iridium base alloys  
 NT1 osmium alloys  
 NT2 osmium additions  
 NT2 osmium base alloys  
 NT1 palladium alloys  
 NT2 palau  
 NT2 palladium base alloys  
 NT1 platinum alloys  
 NT2 platinum base alloys  
 NT1 rhodium alloys  
 NT2 rhodium additions  
 NT2 rhodium base alloys  
 NT1 ruthenium alloys  
 NT2 ruthenium additions  
 NT2 ruthenium base alloys

**PLATINUM METALS**

\*BT1 transition elements  
 NT1 iridium  
 NT1 osmium  
 NT1 palladium  
 NT1 platinum  
 NT1 rhodium  
 NT1 ruthenium

**PLATINUM OXIDES**

\*BT1 oxides  
 \*BT1 platinum compounds

**PLATINUM PHOSPHIDES**

INIS: 1991-09-16; ETDE: 1977-03-04

\*BT1 phosphides  
 \*BT1 platinum compounds

**PLATINUM SILICIDES**

INIS: 1978-07-17; ETDE: 1978-08-07

\*BT1 platinum compounds  
 \*BT1 silicides

**PLATINUM SULFATES**

INIS: 2000-04-12; ETDE: 1976-07-07

\*BT1 platinum compounds  
 \*BT1 sulfates

**PLATINUM SULFIDES**

\*BT1 platinum compounds  
 \*BT1 sulfides

**PLATINUM TELLURIDES**

INIS: 1985-12-11; ETDE: 1976-06-07

\*BT1 platinum compounds  
 \*BT1 tellurides

**platr reactor**

USE prr reactor

**PLATYHELMINTHS**

UF cercaria  
 UF worms (flat)  
 SF helminths  
 \*BT1 invertebrates  
 NT1 cestodes  
 NT1 trematodes  
 NT2 fasciola  
 NT2 schistosoma  
 NT1 turbellaria

NT2 planaria

**PLBR REACTOR**

INIS: 1978-07-03; ETDE: 1977-08-24

USA. Joint ERDA-EPRI design project.

UF prototype large breeder reactor

\*BT1 lmfr type reactors

\*BT1 power reactors

**pleasanton usa ntr reactor**

USE ntr reactor

**PLEIADE DEVICE**

\*BT1 magnetic mirrors

**PLEISTOCENE EPOCH**

INIS: 1992-04-14; ETDE: 1977-10-20

\*BT1 quaternary period

RT geologic history

RT glaciers

**plesiotherapy**

USE radiotherapy

**PLEURA**

\*BT1 serous membranes

RT chest

RT lungs

RT mediastinum

**PLEXIGLAS**

\*BT1 plastics

\*BT1 polyacrylates

RT pmma

**PLIOCENE EPOCH**

INIS: 1992-04-14; ETDE: 1977-10-20

\*BT1 tertiary period

RT geologic history

**PLOIDY**

NT1 aneuploidy

NT1 diploidy

NT1 haploidy

NT1 polyploidy

RT genome mutations

**PLOTTERS**

\*BT1 computer-graphics devices

RT computer graphics

RT display devices

**plows (coal)**

INIS: 2000-04-12; ETDE: 1979-06-06

USE coal plows

**PLOWSHARE PROJECT**

1996-07-23

(The UF terms below that refer to events have been valid ETDE descriptors.)

UF bronco event

UF chariot event

UF hardhat event

UF project plowshare

UF sloop event

NT1 gasbuggy event

NT1 gnome event

NT1 rio blanco event

NT1 sedan event

RT cratering explosions

RT nuclear excavation

RT nuclear explosions

RT surface explosions

RT underground explosions

**PLT DEVICES**

INIS: 1975-10-23; ETDE: 1979-04-11

UF princeton large torus

\*BT1 tokamak devices

**PLUGGING**

INIS: 1992-04-14; ETDE: 1977-01-10

RT cementing

RT grouting  
 RT oil wells  
 RT permeability  
 RT plugging agents  
 RT reservoir rock

**PLUGGING AGENTS**

INIS: 1992-04-14; ETDE: 1983-03-23

RT cements  
 RT gels  
 RT oil wells  
 RT plugging  
 RT polymers  
 RT reservoir rock

**plugs**

USE closures

**plum brook nasa-tr**

USE pbr reactor

**plum brook reactor facility**

USE pbr reactor

**PLUMBATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

BT1 lead compounds  
 BT1 oxygen compounds  
 RT lead oxides

**PLUMBBOB PROJECT**

UF boltzmann event

UF project plumbbob

\*BT1 nuclear explosions

RT nuclear weapons

**PLUMBING**

INIS: 2000-04-12; ETDE: 1979-11-07

RT pipe fittings  
 RT pipe joints  
 RT pipes  
 RT water faucets  
 RT water supply

**PLUMES**

SF emissions (industrial)  
 RT air pollution  
 RT emissions tax  
 RT gaseous wastes  
 RT liquid wastes  
 RT smokes  
 RT stack disposal  
 RT stacks  
 RT thermal pollution  
 RT waste heat  
 RT water pollution

**PLUMS**

\*BT1 fruits  
 RT rosaceae

**plunger method**

INIS: 1984-01-18; ETDE: 1984-02-10

Method for the determination of lifetimes of nuclear levels.

USE charge plunger method

**plunger pumps**

INIS: 2000-04-12; ETDE: 1984-05-10

USE rod pumps

**PLURONICS**

\*BT1 detergents  
 \*BT1 polyethylene glycols

**plus-minus ratio**

INIS: 2000-04-12; ETDE: 1979-02-05

USE minus-plus ratio

**PLUTO PLANET**

BT1 planets

**PLUTO REACTOR**UF *harwell pluto reactor*

\*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 materials testing reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**PLUTONIC ROCKS**

INIS: 1985-10-23; ETDE: 1980-08-12  
*Rocks formed at considerable depth by crystallization of magma or by chemical alteration.*

UF *alkali gabbros*  
 UF *intrusion (rock)*  
 UF *intrusive rocks*  
 UF *rock intrusion*  
 UF *sedimentary intrusive rocks*  
 SF *intrusion*  
 \*BT1 igneous rocks  
 NT1 diorites  
 NT1 gabbros  
 NT2 anorthosites  
 NT1 granites  
 NT2 aplites  
 NT2 granodiorites  
 NT2 quartz monzonite  
 NT1 pegmatites  
 NT1 peridotites  
 NT2 kimberlites  
 NT1 syenites  
 RT mineralization

**PLUTONIUM**

1996-01-24

UF *dymac system*  
 UF *dynamic materials accountability system*  
 \*BT1 actinides  
 \*BT1 transuranium elements  
 NT1 plutonium-alpha  
 NT1 plutonium-beta  
 NT1 plutonium-delta  
 NT1 plutonium-epsilon  
 NT1 plutonium-gamma  
 RT nuclear fuels  
 RT plutonium recycle

**PLUTONIUM 228**

INIS: 1992-09-23; ETDE: 1979-11-23

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 plutonium isotopes

**PLUTONIUM 229**

1994-04-11

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 plutonium isotopes  
 \*BT1 seconds living radioisotopes

**PLUTONIUM 230**

INIS: 1990-12-05; ETDE: 1979-11-23

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 plutonium isotopes

**PLUTONIUM 231**

\*BT1 actinide nuclei  
 \*BT1 even-odd nuclei  
 \*BT1 plutonium isotopes

**PLUTONIUM 232**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 plutonium isotopes

**PLUTONIUM 233**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 plutonium isotopes

**PLUTONIUM 234**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 plutonium isotopes

**PLUTONIUM 235**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes

**PLUTONIUM 235 TARGET**

ETDE: 1976-08-24

BT1 targets

**PLUTONIUM 236**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 magnesium 28 decay radioisotopes  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**PLUTONIUM 236 TARGET**

1977-11-02

BT1 targets

**PLUTONIUM 237**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes

**PLUTONIUM 237 TARGET**

INIS: 1977-01-25; ETDE: 1977-04-13

BT1 targets

**PLUTONIUM 238**

1997-02-07

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 plutonium isotopes  
 \*BT1 silicon 32 decay radioisotopes  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**PLUTONIUM 238 TARGET**

ETDE: 1976-07-09

BT1 targets

**PLUTONIUM 239**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**PLUTONIUM 239 TARGET**

ETDE: 1976-07-09

BT1 targets

**PLUTONIUM 240**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**PLUTONIUM 240 TARGET**

ETDE: 1976-07-09

BT1 targets

**PLUTONIUM 241**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**PLUTONIUM 241 TARGET**

ETDE: 1976-07-09

BT1 targets

**PLUTONIUM 242**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**PLUTONIUM 242 TARGET**

ETDE: 1976-07-09

BT1 targets

**PLUTONIUM 243**

\*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes

**PLUTONIUM 243 TARGET**

INIS: 1977-11-21; ETDE: 1978-03-08

BT1 targets

**PLUTONIUM 244**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**PLUTONIUM 244 TARGET**

INIS: 1976-07-06; ETDE: 1976-08-24

BT1 targets

**PLUTONIUM 245**

\*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 plutonium isotopes

**PLUTONIUM 246**

\*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes

- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 plutonium isotopes

**PLUTONIUM 247**

*INIS: 1985-03-15; ETDE: 1983-09-15*

- \*BT1 actinide nuclei
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 plutonium isotopes

**PLUTONIUM 248**

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 plutonium isotopes

**PLUTONIUM 250**

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 plutonium isotopes

**PLUTONIUM ADDITIONS**

*Alloys containing not more than 1% Pu are listed here.*

- RT* plutonium alloys

**PLUTONIUM ALLOYS**

*Alloys containing more than 1% Pu.*

- \*BT1 actinide alloys
- NT1 plutonium base alloys
- RT* plutonium additions

**PLUTONIUM-ALPHA**

- \*BT1 plutonium

**PLUTONIUM ARSENIDES**

*INIS: 1979-02-21; ETDE: 1979-03-28*

- \*BT1 arsenides
- \*BT1 plutonium compounds

**PLUTONIUM BASE ALLOYS**

- \*BT1 plutonium alloys

**PLUTONIUM-BETA**

- \*BT1 plutonium

**PLUTONIUM BORIDES**

- \*BT1 borides
- \*BT1 plutonium compounds

**PLUTONIUM BROMIDES**

*1997-01-28*

(From October 1996 to September 2007  
PLUTONIUM COMPOUNDS + BROMIDES  
was used for this concept.)

- \*BT1 bromides
- \*BT1 plutonium compounds

**PLUTONIUM CARBIDES**

- \*BT1 carbides
- \*BT1 plutonium compounds
- RT* mixed carbide fuels

**PLUTONIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 plutonium compounds

**PLUTONIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 plutonium compounds

**PLUTONIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes
- NT1 plutonyl complexes

**PLUTONIUM COMPOUNDS**

*1996-11-13*

- BT1 actinide compounds
- BT1 transuranium compounds
- NT1 plutonium arsenides
- NT1 plutonium borides
- NT1 plutonium bromides
- NT1 plutonium carbides

- NT1 plutonium carbonates
- NT1 plutonium chlorides
- NT1 plutonium fluorides
- NT1 plutonium hydrides
- NT1 plutonium hydroxides
- NT1 plutonium iodides
- NT1 plutonium nitrates
- NT1 plutonium nitrides
- NT1 plutonium oxides
- NT2 plutonium dioxide
- NT1 plutonium perchlorates
- NT1 plutonium peroxide
- NT1 plutonium phosphates
- NT1 plutonium phosphides
- NT1 plutonium selenides
- NT1 plutonium silicates
- NT1 plutonium sulfates
- NT1 plutonium sulfides
- NT1 plutonium tellurides
- NT1 plutonyl compounds

**PLUTONIUM-DELTA**

- \*BT1 plutonium

**PLUTONIUM DIOXIDE**

- \*BT1 plutonium oxides

**PLUTONIUM-EPSILON**

- \*BT1 plutonium

**PLUTONIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 plutonium compounds

**PLUTONIUM-GAMMA**

- \*BT1 plutonium

**PLUTONIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 plutonium compounds

**PLUTONIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 plutonium compounds

**PLUTONIUM IODIDES**

- \*BT1 iodides
- \*BT1 plutonium compounds

**PLUTONIUM IONS**

- \*BT1 ions

**PLUTONIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 plutonium 228
- NT1 plutonium 229
- NT1 plutonium 230
- NT1 plutonium 231
- NT1 plutonium 232
- NT1 plutonium 233
- NT1 plutonium 234
- NT1 plutonium 235
- NT1 plutonium 236
- NT1 plutonium 237
- NT1 plutonium 238
- NT1 plutonium 239
- NT1 plutonium 240
- NT1 plutonium 241
- NT1 plutonium 242
- NT1 plutonium 243
- NT1 plutonium 244
- NT1 plutonium 245
- NT1 plutonium 246
- NT1 plutonium 247
- NT1 plutonium 248
- NT1 plutonium 250

**PLUTONIUM NITRATES**

- \*BT1 nitrates
- \*BT1 plutonium compounds

**PLUTONIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 plutonium compounds
- RT* mixed nitride fuels

**PLUTONIUM OXIDES**

- \*BT1 oxides
- \*BT1 plutonium compounds
- NT1 plutonium dioxide

**PLUTONIUM PERCHLORATES**

*1997-01-28*

(From November 1996 to November 2007

PLUTONIUM COMPOUNDS +  
PERCHLORATES was used for this concept.)

- \*BT1 perchlorates
- \*BT1 plutonium compounds

**PLUTONIUM PEROXIDE**

*INIS: 1997-01-28; ETDE: 1980-05-06*

(From November 1996 to November 2007

PLUTONIUM COMPOUNDS +  
PEROXIDES was used for this concept. Prior  
to March 1991 the plural form was used by  
ETDE.)

- \*BT1 peroxides
- \*BT1 plutonium compounds

**PLUTONIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 plutonium compounds

**PLUTONIUM PHOSPHIDES**

- \*BT1 phosphides
- \*BT1 plutonium compounds

**PLUTONIUM PRODUCTION  
REACTORS**

- \*BT1 production reactors
- NT1 calder hall a-1 reactor
- NT1 calder hall a-2 reactor
- NT1 calder hall b-3 reactor
- NT1 calder hall b-4 reactor
- NT1 chapelcross-1 reactor
- NT1 chapelcross-2 reactor
- NT1 chapelcross-3 reactor
- NT1 chapelcross-4 reactor
- NT1 g-1 reactor
- NT1 g-2 reactor
- NT1 g-3 reactor
- NT1 hanford production reactors
- NT1 n-reactor
- NT1 windscale production reactors

**PLUTONIUM REACTORS**

- BT1 reactors
- NT1 clementine reactor
- NT1 ebr-1 reactor
- NT1 hclwr type reactors
- NT1 jatr reactor
- NT1 lampre-1 reactor
- NT1 masurca reactor
- NT1 phenix reactor
- NT1 prcf reactor
- NT1 rapsodie reactor
- NT1 sbr-1 reactor
- NT1 sbr-2 reactor
- NT1 sbr-5 reactor
- NT1 sefor reactor
- NT1 stacy reactor
- NT1 super phenix reactor
- NT1 tracy reactor
- NT1 zeep reactor
- NT1 zephyr reactor
- RT* beloyarsk-3 reactor
- RT* bn-350 reactor
- RT* clinch river breeder reactor
- RT* ebr-2 reactor
- RT* pfr reactor
- RT* sneak reactor
- RT* vera reactor

RT zebra reactor  
RT zenith reactor

**PLUTONIUM RECYCLE**

Use of plutonium from reprocessed spent fuels in reload fuels.

BT1 fuel cycle  
RT civex process  
RT fuel cycle centers  
RT plutonium

**plutonium recycle critical facility**

USE prcf reactor

**plutonium recycle test reactor**

USE prtr reactor

**PLUTONIUM SELENIDES**

INIS: 1979-02-21; ETDE: 1979-03-05

\*BT1 plutonium compounds  
\*BT1 selenides

**PLUTONIUM SILICATES**

INIS: 1997-01-28; ETDE: 1984-09-05  
(From November 1996 to November 2007

PLUTONIUM COMPOUNDS + SILICATES was used for this concept.)

\*BT1 plutonium compounds  
\*BT1 silicates

**PLUTONIUM SULFATES**

\*BT1 plutonium compounds  
\*BT1 sulfates

**PLUTONIUM SULFIDES**

\*BT1 plutonium compounds  
\*BT1 sulfides

**PLUTONIUM TELLURIDES**

INIS: 1976-02-24; ETDE: 1976-04-19

\*BT1 plutonium compounds  
\*BT1 tellurides

**PLUTONYL COMPLEXES**

1983-09-06

\*BT1 plutonium complexes  
RT plutonyl compounds

**PLUTONYL COMPOUNDS**

\*BT1 plutonium compounds  
RT plutonyl complexes

**plymouth pilgrim power reactor**

USE pilgrim-1 reactor

**PLZT**

INIS: 1984-04-25; ETDE: 1983-07-07

Lead lanthanum zirconate titanate.

\*BT1 lanthanum compounds  
BT1 lead compounds  
\*BT1 titanates  
\*BT1 zirconates

**PM-2A REACTOR**

Camp Century, Greenland, Denmark.

UF camp century medium power plant 2a  
UF portable medium power plant 2a  
\*BT1 process heat reactors  
\*BT1 pwr type reactors

**PM-3A REACTOR**

McMurdo Sound, Antarctica.

UF mcmurdo sound medium power plant 3a  
UF portable medium power plant 3a  
\*BT1 pwr type reactors

**PMMA**

INIS: 1981-02-27; ETDE: 1980-03-04

UF polymethylmethacrylates  
\*BT1 polyacrylates  
RT lucite  
RT methacrylic acid esters  
RT plexiglas

**pmr spectra**

INIS: 1984-04-04; ETDE: 2002-04-26  
Proton Magnetic Resonance spectra.

USE nmr spectra  
USE protons

**pna**

INIS: 2000-04-12; ETDE: 1978-07-05  
Polynuclear aromatics.

USE polycyclic aromatic hydrocarbons

**PNC**

ETDE: 1975-09-11

The Power Reactor and Nuclear Fuel Development Corporation (PNC) was reorganized and renamed as the Japan Nuclear Cycle Development Institute (JNC) in October 1998.

UF power reactor and nuclear fuel development corporation

\*BT1 japanese organizations

**PNEUMATIC CONTROLLERS**

\*BT1 control equipment

**PNEUMATIC MOTORS**

INIS: 2000-04-12; ETDE: 1980-10-27

\*BT1 motors

**PNEUMATIC TRANSPORT**

1976-09-06

BT1 transport  
RT pipelines  
RT pneumatics  
RT reaction product transport systems

**PNEUMATICS**

Pertaining to or operated by air or other gas.

\*BT1 fluid mechanics  
RT hydraulics  
RT pneumatic transport

**PNEUMOCOCCUS**

UF diplococcus pneumoniae

\*BT1 bacteria  
RT pneumonia

**PNEUMOCONIOSES**

UF black lung disease

UF silicosis  
\*BT1 respiratory system diseases

NT1 berylliosis  
RT dusts  
RT lungs  
RT occupational diseases

**PNEUMONIA**

\*BT1 respiratory system diseases

NT1 bronchopneumonia  
RT lungs  
RT pneumococcus

**PNEUMONITIS**

RT inflammation  
RT lungs

**Pnictides**

INIS: 1989-11-24; ETDE: 1976-09-14

NT1 antimonides  
NT2 gallium antimonides  
NT2 indium antimonides  
NT1 arsenides  
NT2 aluminium arsenides  
NT2 americium arsenides  
NT2 berkelium arsenides  
NT2 boron arsenides  
NT2 cadmium arsenides  
NT2 californium arsenides  
NT2 cerium arsenides  
NT2 cobalt arsenides  
NT2 copper arsenides  
NT2 curium arsenides

NT2 europium arsenides  
NT2 gadolinium arsenides  
NT2 gallium arsenides  
NT2 germanium arsenides  
NT2 hafnium arsenides  
NT2 indium arsenides  
NT2 iron arsenides  
NT2 lithium arsenides  
NT2 magnesium arsenides  
NT2 manganese arsenides  
NT2 molybdenum arsenides  
NT2 neptunium arsenides  
NT2 nickel arsenides  
NT2 niobium arsenides  
NT2 palladium arsenides  
NT2 platinum arsenides  
NT2 plutonium arsenides  
NT2 praseodymium arsenides  
NT2 ruthenium arsenides  
NT2 samarium arsenides  
NT2 silicon arsenides  
NT2 silver arsenides  
NT2 tellurium arsenides  
NT2 terbium arsenides  
NT2 thorium arsenides  
NT2 thulium arsenides  
NT2 tin arsenides  
NT2 titanium arsenides  
NT2 uranium arsenides  
NT2 vanadium arsenides  
NT2 yttrium arsenides  
NT2 zinc arsenides  
NT2 zirconium arsenides  
NT1 nitrides  
NT2 aluminium nitrides  
NT2 americium nitrides  
NT2 argon nitrides  
NT2 barium nitrides  
NT2 berkelium nitrides  
NT2 beryllium nitrides  
NT2 boron nitrides  
NT2 calcium nitrides  
NT2 californium nitrides  
NT2 carbon nitrides  
NT2 cerium nitrides  
NT2 cesium nitrides  
NT2 chromium nitrides  
NT2 copper nitrides  
NT2 curium nitrides  
NT2 dysprosium nitrides  
NT2 erbium nitrides  
NT2 europium nitrides  
NT2 gadolinium nitrides  
NT2 gallium nitrides  
NT2 germanium nitrides  
NT2 hafnium nitrides  
NT2 holmium nitrides  
NT2 indium nitrides  
NT2 iron nitrides  
NT2 lanthanum nitrides  
NT2 lead nitrides  
NT2 lithium nitrides  
NT2 magnesium nitrides  
NT2 manganese nitrides  
NT2 molybdenum nitrides  
NT2 neodymium nitrides  
NT2 neptunium nitrides  
NT2 nickel nitrides  
NT2 niobium nitrides  
NT2 palladium nitrides  
NT2 phosphorus nitrides  
NT2 plutonium nitrides  
NT2 potassium nitrides  
NT2 praseodymium nitrides  
NT2 radium nitrides  
NT2 rhenium nitrides  
NT2 rhodium nitrides  
NT2 ruthenium nitrides  
NT2 samarium nitrides

NT2 scandium nitrides  
 NT2 silicon nitrides  
 NT2 silver nitrides  
 NT2 sodium nitrides  
 NT2 sulfur nitrides  
 NT2 tantalum nitrides  
 NT2 terbium nitrides  
 NT2 thorium nitrides  
 NT2 thulium nitrides  
 NT2 tin nitrides  
 NT2 titanium nitrides  
 NT2 tungsten nitrides  
 NT2 uranium nitrides  
 NT2 vanadium nitrides  
 NT2 ytterbium nitrides  
 NT2 yttrium nitrides  
 NT2 zinc nitrides  
 NT2 zirconium nitrides  
 NT1 phosphides  
 NT2 aluminium phosphides  
 NT2 americium phosphides  
 NT2 berkelium phosphides  
 NT2 beryllium phosphides  
 NT2 boron phosphides  
 NT2 cadmium phosphides  
 NT2 cerium phosphides  
 NT2 cobalt phosphides  
 NT2 copper phosphides  
 NT2 curium phosphides  
 NT2 dysprosium phosphides  
 NT2 erbium phosphides  
 NT2 europium phosphides  
 NT2 gadolinium phosphides  
 NT2 gallium phosphides  
 NT2 germanium phosphides  
 NT2 hafnium phosphides  
 NT2 holmium phosphides  
 NT2 indium phosphides  
 NT2 iron phosphides  
 NT2 lanthanum phosphides  
 NT2 lithium phosphides  
 NT2 manganese phosphides  
 NT2 molybdenum phosphides  
 NT2 neptunium phosphides  
 NT2 nickel phosphides  
 NT2 microbraz 50  
 NT2 niobium phosphides  
 NT2 osmium phosphides  
 NT2 palladium phosphides  
 NT2 platinum phosphides  
 NT2 plutonium phosphides  
 NT2 potassium phosphides  
 NT2 praseodymium phosphides  
 NT2 rhodium phosphides  
 NT2 ruthenium phosphides  
 NT2 samarium phosphides  
 NT2 scandium phosphides  
 NT2 silicon phosphides  
 NT2 sodium phosphides  
 NT2 tantalum phosphides  
 NT2 terbium phosphides  
 NT2 thorium phosphides  
 NT2 thulium phosphides  
 NT2 tin phosphides  
 NT2 titanium phosphides  
 NT2 tungsten phosphides  
 NT2 uranium phosphides  
 NT2 vanadium phosphides  
 NT2 ytterbium phosphides  
 NT2 yttrium phosphides  
 NT2 zinc phosphides  
 NT2 zirconium phosphides

**pnl**

INIS: 2000-04-12; ETDE: 1982-09-10

USE battelle pacific northwest laboratories

**pnl-cml reactor**

USE cml reactor

**pnl-prcf reactor**

USE prcf reactor

**PNPF REACTOR**

US AEC, Piqua, Ohio, USA. Shut down in 1966.

UF organic moderated reactor piqua

UF piqua nuclear power facility

UF piqua organic moderated reactor

\*BT1 enriched uranium reactors

\*BT1 omr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**PNPP-1 REACTOR**

INIS: 1982-06-09; ETDE: 1982-07-08

UF bataan philippine power plant

UF philippine nuclear power plant-1

\*BT1 pwr type reactors

**PO RIVER**

INIS: 1975-12-17; ETDE: 1976-08-24

\*BT1 rivers

RT italy

**POCKELS CELL**

INIS: 2000-04-12; ETDE: 1978-02-14

An electronically controllable light modulator or optical switch.

RT liquid crystals

**pocket calculators**

INIS: 1985-12-10; ETDE: 1978-11-14

USE calculators

**pocket chambers**

USE condenser ionization chambers

**PODBIELNIAK CONTACTORS**

\*BT1 extraction apparatuses

RT centrifugation

RT solvent extraction

**podophyllic acid**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE hydroxy acids

**POHANG LIGHT SOURCE**

2003-05-08

\*BT1 synchrotron radiation sources

RT accelerator facilities

RT light sources

**POINCARÉ-BERTRAND FORMULA**

1992-03-11

RT integral calculus

RT transport theory

**POINCARE GROUPS**

\*BT1 lie groups

NT1 lorentz groups

RT lorentz transformations

**POINT BEACH-1 REACTOR**

Nuclear Management Co., LLC, Two Creeks, Wisconsin, USA.

UF wisconsin point beach-1 reactor

\*BT1 pwr type reactors

**POINT BEACH-2 REACTOR**

Nuclear Management Co., LLC, Two Creeks, Wisconsin, USA.

UF wisconsin point beach-2 reactor

\*BT1 pwr type reactors

**POINT CHARGE**

BT1 electric charges

**point contacts**

USE electric contacts

**POINT DEFECTS**

\*BT1 crystal defects

NT1 interstitials

NT2 i centers

NT1 vacancies

NT2 color centers

NT3 a centers

NT3 e centers

NT3 f centers

NT3 h centers

NT3 i centers

NT3 m centers

NT3 r centers

NT3 s centers

NT3 u centers

NT3 v centers

NT3 x centers

NT3 z centers

NT2 frenkel defects

NT2 schottky defects

RT charge carriers

RT holes

**POINT KERNELS**

INIS: 1977-11-21; ETDE: 1978-03-08

BT1 kernels

RT absorption

RT integral equations

RT radiation flux

RT shielding

**POINT LEPREAU-1 REACTOR**

INIS: 1977-02-08; ETDE: 1977-04-13

St. John, New Brunswick, Canada.

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

**POINT LEPREAU-2 REACTOR**

INIS: 1986-08-19; ETDE: 1986-09-05

St. John, New Brunswick, Canada.

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

**point mutations**

USE gene mutations

**POINT POLLUTANT SOURCES**

INIS: 1992-03-09; ETDE: 1977-11-28

Use for general articles when sources are not named.

BT1 pollution sources

RT air pollution

RT mobile pollutant sources

RT pollution

RT water pollution

**POINT SOURCES**

BT1 radiation sources

**poiseuille flow**

USE laminar flow

**POISONING**

Reduction of the reactivity by materials produced in a reactor, e.g., xenon, and samarium, or materials such as boron introduced into the reactor.

UF xenon effect

NT1 samarium oscillations

NT1 xenon oscillations

RT burnable poisons

RT fluid poison control

RT nuclear poisons

RT reactivity

RT reactor kinetics

**poisons (chemical)**

1983-03-15

USE hazardous materials

**poisons (nuclear)**

USE nuclear poisons

**POISSON EQUATION**

\*BT1 partial differential equations

RT laplace equation

**POISSON RATIO**

BT1 dimensionless numbers

BT1 mechanical properties

RT elasticity

RT hooke law

RT strains

**pokhran event**

INIS: 1994-10-14; ETDE: 1976-01-26

(Prior to September 1994, this was a valid ETDE descriptor.)

USE contained explosions

USE nuclear explosions

**POLAND**

1997-03-07

BT1 developing countries

\*BT1 eastern europe

RT oecd

**polar blackout**

USE polar-cap absorption

**POLAR-CAP ABSORPTION**

UF *pca*

UF *polar blackout*

\*BT1 absorption

RT polar regions

RT radiowave radiation

RT solar particles

**POLAR-CAP AURORAE**

BT1 aurorae

RT antarctic regions

RT arctic regions

RT auroral oval

RT auroral zones

RT ionosphere

**POLAR COMPOUNDS**

INIS: 2000-04-12; ETDE: 1980-12-08

*Compounds that exhibit polarity, or local differences in electrical properties, and have a dipole moment associated with one or more of their interatomic valence bonds.*

NT1 zwitterionic compounds

RT dipoles

RT electric charges

RT organic compounds

**POLAR CUSP**

INIS: 1975-12-09; ETDE: 1978-03-08

RT auroral oval

RT earth magnetosphere

RT electron precipitation

RT ionosphere

RT proton precipitation

**POLAR GAS PROJECT**

INIS: 2000-04-12; ETDE: 1976-11-17

RT canada

RT natural gas

RT pipelines

**POLAR REGIONS**

BT1 cryosphere

NT1 antarctic regions

NT2 antarctica

NT1 arctic regions

RT boreal regions

RT polar-cap absorption

**polar solvents**

INIS: 1990-12-07; ETDE: 2002-04-26  
(Prior to December 1990, this was a valid descriptor.)

USE solvents

**polar substorms**

USE magnetic bays

**POLARIMETERS**

NT1 ellipsometers

RT polarimetry

RT polarization

RT radiation detectors

**POLARIMETRY**

INIS: 1994-09-08; ETDE: 1986-02-21

RT chemical analysis

RT polarimeters

RT polarization

**polaritons**

INIS: 1984-04-04; ETDE: 2002-04-26

USE polarons

**POLARIZABILITY**

*Induced dipole moment to external electric field ratio.*

\*BT1 electrical properties

RT electric dipole moments

RT polarization

**POLARIZATION**

*For the process and condition in classical physics only; see also SPIN ORIENTATION.*

UF *pyroelectricity*

RT depolarization

RT electrets

RT faraday effect

RT kerr effect

RT optical activity

RT oriented nuclei

RT overhauser effect

RT polarimeters

RT polarimetry

RT polarizability

RT stokes parameters

RT tagged photon method

RT voigt effect

RT wave forms

RT wave propagation

**POLARIZATION-ASYMMETRY RATIO**

UF *analyzing power*

BT1 dimensionless numbers

RT scattering

RT spin orientation

RT targets

**POLARIZED BEAMS**

BT1 beams

RT spin orientation

**polarized nuclei**

(Prior to December 1984 this was a valid ETDE descriptor.)

USE oriented nuclei

**POLARIZED PRODUCTS**

*Use only for indexing the products of nuclear reactions or particle interactions.*

RT nuclear reactions

RT particle interactions

**POLARIZED TARGETS**

BT1 targets

RT spin orientation

**POLAROGRAPHY**

RT electrolysis

RT quantitative chemical analysis

**POLARONS**

UF *polaritons*

BT1 quasi particles

**policy**

INIS: 2000-04-12; ETDE: 1980-03-29

SEE energy policy

SEE environmental policy

SEE foreign policy

SEE government policies

**POLIO VIRUS**

\*BT1 viruses

RT poliomyelitis

**POLIOMYELITIS**

\*BT1 myelitis

\*BT1 viral diseases

RT nervous system

RT polio virus

**polish government maryla reactor**

1993-11-09

USE maryla reactor

**POLISH ORGANIZATIONS**

INIS: 1988-11-16; ETDE: 1981-08-04

BT1 national organizations

NT1 panstwowa agencja atomistyki

**POLISHING**

BT1 surface finishing

NT1 chemical polishing

NT1 electropolishing

NT1 mechanical polishing

RT metallography

RT surface cleaning

**POLITICAL ASPECTS**

INIS: 1998-01-28; ETDE: 1979-05-09

*Features of an enterprise or undertaking affected by or affecting political establishments.*

BT1 institutional factors

RT ethical aspects

RT government policies

RT legal aspects

RT public officials

RT public opinion

RT public policy

RT socio-economic factors

**POLLEN**

\*BT1 gametes

RT flowers

RT microspores

RT palynology

RT reproduction

**POLLUCITE**

INIS: 1983-06-02; ETDE: 1982-11-08

\*BT1 silicate minerals

RT aluminium silicates

RT cesium silicates

RT sodium silicates

**POLLUTANTS**

INIS: 1981-02-27; ETDE: 1981-03-13

*Not for radioactive contaminants for which use RADIOACTIVE WASTES or other related terminology.*

RT biological wastes

RT chemical effluents

RT contamination

RT industrial wastes

RT long-range transport

RT municipal wastes

RT pesticides

RT pollution

RT pollution abatement

RT pollution sources

**POLLUTION**

*For nonradioactive pollution only; for radioactive pollution use CONTAMINATION.*

- NT1 air pollution
- NT2 indoor air pollution
- NT1 land pollution
- NT1 noise pollution
- NT1 thermal pollution
- NT1 transfrontier pollution
- NT1 water pollution
- RT aesthetics
- RT body burden
- RT emissions tax
- RT emissions trading
- RT environment
- RT gas spills
- RT global aspects
- RT hazardous materials spills
- RT heavy metals
- RT lcpmpdpw
- RT liming
- RT long-range transport
- RT mobile pollutant sources
- RT pesticides
- RT point pollutant sources
- RT pollutants
- RT pollution abatement
- RT pollution control equipment
- RT pollution regulations
- RT stationary pollutant sources
- RT wastes

***pollution, prevention of marine, 1972 london convention on***

*INIS: 1984-06-21; ETDE: 2002-06-13*  
USE lcpmpdpw

***pollution (thermal)***

*2000-04-12*  
USE thermal pollution

**POLLUTION ABATEMENT**

- INIS: 1983-06-30; ETDE: 1978-02-14*  
*For the prevention of pollutants at the source.*
- NT1 air pollution abatement
  - NT1 land pollution abatement
  - NT1 noise pollution abatement
  - NT1 water pollution abatement
  - RT chemical effluents
  - RT heavy metals
  - RT mitigation
  - RT pollutants
  - RT pollution
  - RT pollution control
  - RT pollution regulations

**POLLUTION CONTROL**

- INIS: 1986-04-04; ETDE: 1977-03-04*  
*For management or removal of pollutants after they are formed by a source.*
- BT1 control
  - NT1 air pollution control
  - NT2 carbon sequestration
  - NT1 land pollution control
  - NT1 noise pollution control
  - NT1 oil pollution containment
  - NT1 water pollution control
  - RT liming
  - RT pollution abatement
  - RT pollution control equipment
  - RT pollution regulations
  - RT us clean coal technology program

**POLLUTION CONTROL AGENCIES**

- INIS: 1993-01-27; ETDE: 1976-11-01*
- NT1 us epa
  - RT enforcement
  - RT pollution laws
  - RT pollution regulations

**POLLUTION CONTROL****EQUIPMENT**

- INIS: 1976-06-23; ETDE: 1975-11-11*
- BT1 equipment
  - NT1 acoustic agglomerators
  - NT1 afterburners
  - NT1 air filters
  - NT1 baghouses
  - NT1 catalytic converters
  - NT1 electrostatic precipitators
  - NT1 exhaust recirculation systems
  - NT1 oil retention booms
  - NT1 pcv systems
  - NT1 rotating disk removal systems
  - NT1 scrubbers
  - NT2 dry scrubbers
  - NT1 skimmers
  - NT1 weir oil recovery systems
  - RT air cleaning
  - RT air cleaning systems
  - RT air pollution control
  - RT catalytic combustors
  - RT environmental engineering
  - RT fabric filters
  - RT fluidized-bed combustors
  - RT granular bed filters
  - RT inertial separators
  - RT noise pollution control
  - RT off-gas systems
  - RT pollution
  - RT pollution control
  - RT scrubbing
  - RT stack disposal
  - RT sulfur meters

**POLLUTION LAWS**

- 1990-12-15*  
*(Prior to December 1990, this descriptor was spelled POLLUTION LAW.)*
- BT1 laws
  - NT1 clean air acts
  - NT1 clean water acts
  - NT1 us superfund
  - RT kyoto protocol
  - RT pollution control agencies
  - RT pollution regulations
  - RT transfrontier pollution

**POLLUTION REGULATIONS**

- Regulations for nonradioactive pollution only; see also CONTAMINATION REGULATIONS.*
- \*BT1 regulations
  - RT clean air acts
  - RT clean water acts
  - RT contamination regulations
  - RT enforcement
  - RT federal test procedure
  - RT pollution
  - RT pollution abatement
  - RT pollution control agencies
  - RT pollution laws
  - RT transfrontier pollution

**POLLUTION SOURCES**

- INIS: 1992-03-09; ETDE: 1979-12-10*
- UF area pollution sources
  - NT1 mobile pollutant sources
  - NT1 point pollutant sources
  - NT1 stationary pollutant sources
  - RT carbon sources
  - RT pollutants

***poloidal divertor experiment***

*INIS: 1978-07-03; ETDE: 1977-11-28*  
USE pdx devices

***poloidal divertors***

*INIS: 2000-04-12; ETDE: 1979-09-26*  
*(Prior to July 1985, this was a valid ETDE descriptor.)*  
USE poloidal field divertors

**POLOIDAL FIELD DIVERTORS**

*INIS: 1981-07-06; ETDE: 1981-08-04*  
*Divertors that displace the poloidal field lines to form a separatrix in the poloidal field.*  
UF poloidal divertors  
BT1 divertors  
RT pbx devices  
RT pdx devices

**POLONIUM**

- \*BT1 metals
- RT natural radioactivity

**POLONIUM 186**

*2007-05-23*  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 polonium isotopes

**POLONIUM 187**

*2007-05-23*  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 polonium isotopes

**POLONIUM 188**

*2002-08-13*  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 polonium isotopes

**POLONIUM 189**

*2007-04-19*  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 polonium isotopes

**POLONIUM 190**

*INIS: 2000-06-15; ETDE: 2002-03-28*  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 polonium isotopes

**POLONIUM 191**

*2007-04-19*  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 polonium isotopes

**POLONIUM 192**

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 polonium isotopes

**POLONIUM 193**

\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 polonium isotopes



**POLONIUM 194**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 195**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 polonium isotopes
- \*BT1 seconds living radioisotopes

**POLONIUM 196**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 polonium isotopes
- \*BT1 seconds living radioisotopes

**POLONIUM 197**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 polonium isotopes
- \*BT1 seconds living radioisotopes

**POLONIUM 198**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 199**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 200**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 201**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 202**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 203**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 polonium isotopes
- \*BT1 seconds living radioisotopes

**POLONIUM 204**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 205**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 206**

- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 207**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 polonium isotopes
- \*BT1 seconds living radioisotopes

**POLONIUM 208**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 polonium isotopes
- \*BT1 years living radioisotopes

**POLONIUM 208 TARGET**

1983-03-14

- BT1 targets

**POLONIUM 209**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 polonium isotopes
- \*BT1 years living radioisotopes

**POLONIUM 210**

1995-11-06

- UF postum*
- UF radium f*
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 210 TARGET***ETDE: 1976-07-09*

- BT1 targets

**POLONIUM 211***UF actinium c/*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 polonium isotopes
- \*BT1 seconds living radioisotopes

**POLONIUM 212***UF thorium c/*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 polonium isotopes
- \*BT1 seconds living radioisotopes

**POLONIUM 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 214***UF radium c/*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 215***UF actinium a*

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 216***UF thorium a*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 217**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 polonium isotopes
- \*BT1 seconds living radioisotopes

**POLONIUM 218***UF radium a*

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 polonium isotopes

**POLONIUM 219**

- \*BT1 even-odd nuclei
- \*BT1 polonium isotopes

**POLONIUM 220**

- \*BT1 even-even nuclei
- \*BT1 polonium isotopes

***polonium additions***

2000-03-28

(Until July 1996 this was a valid descriptor.)

- USE polonium alloys

**POLONIUM ALLOYS**

1996-07-23

*Alloys containing more than 1% Po.*

UF polonium additions

BT1 alloys

**POLONIUM BROMIDES**

\*BT1 bromides

BT1 polonium compounds

**POLONIUM CHLORIDES**

1996-07-08

(From June 1996 to February 2008

POLONIUM COMPOUNDS + CHLORIDES

was used for this concept.)

\*BT1 chlorides

\*BT1 polonium halides

**POLONIUM COMPLEXES**

BT1 complexes

**POLONIUM COMPOUNDS**

1996-07-23

NT1 polonium bromides

NT1 polonium halides

NT2 polonium chlorides

NT2 polonium fluorides

NT2 polonium iodides

NT1 polonium nitrates

NT1 polonium oxides

**POLONIUM FLUORIDES**

1996-07-08

(From June 1996 to February 2008

POLONIUM COMPOUNDS + FLUORIDES

was used for this concept.)

\*BT1 fluorides

\*BT1 polonium halides

**POLONIUM HALIDES**

2008-02-07

\*BT1 halides

BT1 polonium compounds

NT1 polonium chlorides

NT1 polonium fluorides

NT1 polonium iodides

**POLONIUM IODIDES**

1996-07-23

(From July 1996 to February 2008

POLONIUM COMPOUNDS + IODIDES was

used for this concept.)

\*BT1 iodides

\*BT1 polonium halides

**POLONIUM IONS**

\*BT1 ions

**POLONIUM ISOTOPES**

BT1 isotopes

NT1 polonium 186

NT1 polonium 187

NT1 polonium 188

NT1 polonium 189

NT1 polonium 190

NT1 polonium 191

NT1 polonium 192

NT1 polonium 193

NT1 polonium 194

NT1 polonium 195

NT1 polonium 196

NT1 polonium 197

NT1 polonium 198

NT1 polonium 199

NT1 polonium 200

NT1 polonium 201

NT1 polonium 202

NT1 polonium 203

NT1 polonium 204

NT1 polonium 205

NT1 polonium 206

NT1 polonium 207

NT1 polonium 208

NT1 polonium 209

NT1 polonium 210

NT1 polonium 211

NT1 polonium 212

NT1 polonium 213

NT1 polonium 214

NT1 polonium 215

NT1 polonium 216

NT1 polonium 217

NT1 polonium 218

NT1 polonium 219

NT1 polonium 220

**POLONIUM NITRATES**

1996-07-23

(From July 1996 to November 2007

POLONIUM COMPOUNDS + NITRATES

was used for this concept.)

\*BT1 nitrates

BT1 polonium compounds

**POLONIUM OXIDES**

\*BT1 oxides

BT1 polonium compounds

**poly(isobutylene oxide)**

INIS: 2000-04-12; ETDE: 1980-12-08

USE epoxides

USE organic polymers

**poly(vinylidene fluoride)**

INIS: 2000-04-12; ETDE: 1980-11-25

USE fluorinated aliphatic hydrocarbons

USE polyvinyls

**POLYACETALS**

\*BT1 organic polymers

NT1 formvar

NT1 polyoxymethylenes

RT acetals

RT cellulose

RT chitin

RT inulin

RT lignin

RT starch

**POLYACETYLENES**

INIS: 1994-07-21; ETDE: 1981-07-18

\*BT1 organic polymers

\*BT1 polyenes

RT acetylene

RT electrolytes

**POLYACRYLATES**

UF acrylic polymers

\*BT1 esters

\*BT1 polyvinyls

NT1 lucite

NT1 perspex

NT1 plexiglas

NT1 pmma

RT methacrylic acid

**polyacrylonitrile**

INIS: 2000-04-12; ETDE: 1980-12-08

USE nitriles

USE organic polymers

**POLYAMIDES**

1996-08-05

UF dow pusher 700

\*BT1 organic polymers

NT1 nylon

NT1 polyurethanes

NT2 halthane

RT albumins

RT amides

RT proteins

**polyatomic molecules**

INIS: 2000-04-12; ETDE: 1994-08-18

*Chemical molecules with three or more atoms.*

(Prior to August 1994, this was a valid ETDE descriptor.)

USE molecules

**POLYCARBONATES**

\*BT1 carbonates

\*BT1 organic polymers

**POLYCHLORINATED BIPHENYLS**

INIS: 1992-09-16; ETDE: 1992-10-07

UF pcb

UF pcb (polychlorinated biphenyl)

\*BT1 chlorinated aromatic hydrocarbons

RT toxic materials

**POLYCRYSTALS**

BT1 crystals

NT1 bicrystals

**POLYCYCLIC AROMATIC AMINES**

INIS: 1994-09-29; ETDE: 1983-11-23

\*BT1 amines

RT acetaminofluorenes

RT aniline

RT polycyclic aromatic hydrocarbons

**POLYCYCLIC AROMATIC HYDROCARBONS**

INIS: 1992-03-17; ETDE: 1976-08-24

UF pah

UF pna

UF polymuclear aromatic hydrocarbons

\*BT1 aromatics

\*BT1 hydrocarbons

NT1 3-methylcholanthrene

RT azaarenes

RT carcinogens

RT mutagens

RT polycyclic aromatic amines

RT polycyclic nitro compounds

RT polycyclic sulfur heterocycles

**POLYCYCLIC NITRO COMPOUNDS**

INIS: 2000-04-12; ETDE: 1983-11-23

\*BT1 nitro compounds

RT polycyclic aromatic hydrocarbons

**polycyclic nitrogen heterocycles**

INIS: 1994-06-27; ETDE: 1983-11-23

USE azaarenes

**POLYCYCLIC SULFUR HETEROCYCLES**

INIS: 1998-10-13; ETDE: 1983-11-23

UF thiophenes

\*BT1 heterocyclic compounds

\*BT1 organic sulfur compounds

RT polycyclic aromatic hydrocarbons

RT thionaphthenes

RT thiophene

**POLYCYTHEMIA**

\*BT1 hemic diseases

RT bone marrow

RT myeloid leukemia

**POLYENES**

\*BT1 hydrocarbons

NT1 dienes

NT2 allene

NT2 butadiene

NT2 cyclopentadiene

NT2 ferrocene

NT2 isoprene

NT2 pentadienes

NT1 polyacetylenes

NT1 squalene

RT alkenes

**POLYESTERS**

1996-07-18

- UF laminac
- UF polyethylene terephthalate
- \*BT1 esters
- \*BT1 organic polymers
- NT1 dacron
- NT1 homalite
- NT1 mylar

**polyethers**

USE polyethylene glycols

**POLYETHYLENE GLYCOLS**

- UF polyethers
- UF polyethylene oxides
- \*BT1 glycols
- \*BT1 organic polymers
- NT1 carbowax
- NT1 pluronics
- RT ethers

**polyethylene oxides**

INIS: 2000-04-12; ETDE: 1976-05-13

USE polyethylene glycols

**polyethylene terephthalate**

2000-04-12

USE polyesters

**POLYETHYLENES**

1996-01-24

- UF ethylene polymers
- UF marlex
- UF polythene
- \*BT1 polyolefins
- NT1 kel-f
- NT1 polytetrafluoroethylene
- NT2 teflon
- RT glazing materials

**POLYHALITE**

INIS: 1982-10-29; ETDE: 1981-12-14

- \*BT1 sulfate minerals
- RT calcium sulfates
- RT magnesium sulfates
- RT potassium sulfates

**polyhydroxyaromatics**

USE polyphenols

**POLYISOPRENE**

- \*BT1 elastomers
- \*BT1 organic polymers
- RT isoprene

**polymer electrolyte fuel cells**

INIS: 2000-04-12; ETDE: 1999-09-09

USE proton exchange membrane fuel cells

**polymer flooding**

INIS: 2000-04-12; ETDE: 1976-06-07

- SEE microemulsion flooding
- SEE waterflooding

**polymer-insulator-semiconductor****solar cells**

INIS: 2000-04-12; ETDE: 1981-07-18

USE pis solar cells

**polymer-semiconductor solar cells**

INIS: 2000-04-12; ETDE: 1981-07-18

USE ps solar cells

**POLYMERASE CHAIN REACTION**

1994-06-27

A biochemical (in vitro) method to prepare a large number of copies of a selected gene or of some other DNA segment. Such quantities of gene copy are required to supply the starting material needs for sequencing, for

other chemical analysis, or for genetic or protein engineering.

- UF per
- BT1 gene amplification
- RT biotechnology
- RT dna-cloning
- RT gene mutations
- RT genetic engineering
- RT protein engineering

**POLYMERASES**

- \*BT1 nucleotidyltransferases
- NT1 dna polymerases
- NT1 rna polymerases

**POLYMERIZATION**

- UF radiation hardening (chemical)
- UF radiopolymerization
- BT1 chemical reactions
- NT1 copolymerization
- NT1 cross-linking
- NT1 dimerization
- NT1 telomerization
- RT curing
- RT depolymerization
- RT molecular weight
- RT monomers

**POLYMERS**

- NT1 elastomers
- NT2 ethylene propylene diene polymers
- NT2 neoprene
- NT2 polyisoprene
- NT2 rubbers
- NT3 buna
- NT3 latex
- NT3 natural rubber
- NT3 silastic
- NT3 viton
- NT1 hydrophylic polymers
- NT1 inorganic polymers
- NT1 organic polymers
- NT2 araldite
- NT2 copolymers
- NT2 graft polymers
- NT2 neoprene
- NT2 plastic foams
- NT2 plastics
- NT3 aramids
- NT3 bakelite
- NT3 formvar
- NT3 lucite
- NT3 mylar
- NT3 nylon
- NT3 perspex
- NT3 plexiglas
- NT3 polystyrene
- NT3 polyurethanes
- NT4 halthane
- NT3 reinforced plastics
- NT3 tedlar
- NT3 teflon
- NT3 thermoplastics
- NT2 polyacetals
- NT3 formvar
- NT3 polyoxymethylenes
- NT2 polyacetylenes
- NT2 polyamides
- NT3 nylon
- NT3 polyurethanes
- NT4 halthane
- NT2 polycarbonates
- NT2 polyesters
- NT3 dacron
- NT3 homalite
- NT3 mylar
- NT2 polyethylene glycols
- NT3 carbowax
- NT3 pluronics
- NT2 polyisoprene

- NT2 polyolefins
- NT3 polyethylenes
- NT4 kel-f
- NT4 polytetrafluoroethylene
- NT5 teflon
- NT3 polypropylene
- NT3 polystyrene
- NT3 polystyrene-dvb
- NT2 polyvinyls
- NT3 polyacrylates
- NT4 lucite
- NT4 perspex
- NT4 plexiglas
- NT4 pmma
- NT3 polystyrene
- NT3 polyvinyl acetate
- NT3 pva
- NT3 pvc
- NT3 pvp
- NT3 tedlar
- NT2 resins
- NT2 rubbers
- NT3 buna
- NT3 latex
- NT3 natural rubber
- NT3 silastic
- NT3 viton
- NT2 textolite
- NT1 silicones
- NT2 silastic
- RT colorimetric dosimeters
- RT dielectric track detectors
- RT dimers
- RT hydrogels
- RT monomers
- RT plugging agents
- RT urea-formaldehyde foams

**POLYMETALLIC ORES**

BT1 ores

**polymethylmethacrylates**

INIS: 1981-02-27; ETDE: 1980-03-04

USE pmma

**POLYNEUTRONS**

INIS: 1978-08-30; ETDE: 1977-03-04

Particle-stable many-body system composed of neutrons.

- \*BT1 neutrons
- NT1 dineutrons
- NT1 tetra-neutrons
- NT1 trineutrons

**POLYNOMIALS**

UF tschebyscheff approximation

- BT1 functions
- NT1 hermite polynomials
- NT1 laguerre polynomials
- NT1 legendre polynomials
- RT mathematics
- RT newton method
- RT spline functions

**polynuclear aromatic hydrocarbons**

INIS: 2000-04-12; ETDE: 1976-08-24

USE polycyclic aromatic hydrocarbons

**polynuclear hydrocarbons**

ETDE: 2002-04-26

USE condensed aromatics

**POLYOLEFINS**

- \*BT1 organic polymers
- NT1 polyethylenes
- NT2 kel-f
- NT2 polytetrafluoroethylene
- NT3 teflon
- NT1 polypropylene
- NT1 polystyrene
- NT1 polystyrene-dvb

**POLYOMA VIRUS**

\*BT1 oncogenic viruses

**POLYOXYMETHYLENES**

\*BT1 polyacetals  
RT formaldehyde

**POLYPEPTIDES**

\*BT1 peptides  
NT1 calcitonin  
NT1 endorphins  
NT2 enkephalins  
NT1 endothelins  
NT1 gastrin  
NT1 glucagon  
NT1 glutathione  
NT1 kinins  
NT2 bradykinin  
NT1 leptin  
RT somatostatin

**POLYPHENOLS**

1996-06-28

UF aurin  
UF dihydroxyaromatics  
UF polyhydroxyaromatics  
UF trihydroxyaromatics  
\*BT1 phenols  
NT1 arsenazo  
NT1 bromosulfophthalein  
NT1 catecholamines  
NT1 curcumin  
NT1 dopamine  
NT1 fluorescein  
NT2 erythrosine  
NT1 hematoxylin  
NT1 morin  
NT1 pyridylazoresorcinol  
NT1 pyrocatechol  
NT1 pyrogallol  
NT1 quercetin  
NT1 resorcinol  
NT1 stilbestrol  
NT1 tannic acid  
NT1 tiron

**POLYPHENYLS**

1996-07-08

UF santowax  
\*BT1 aromatics  
\*BT1 hydrocarbons  
NT1 terphenyls  
NT2 terphenyl-ortho  
NT2 terphenyl-para  
RT organic coolants  
RT organic moderators  
RT organic polymers

**POLYPLOIDY**

UF tetraploidy  
BT1 ploidy  
RT colchicine  
RT genome mutations

**POLYPORUS VERSICOLOR**

INIS: 2000-04-12; ETDE: 1987-04-24

\*BT1 fungi

**POLYPROPYLENE**

\*BT1 polyolefins  
RT propylene

**polysaccharide-lyases**

INIS: 1990-12-07; ETDE: 2002-04-26

(Prior to December 1990, this was a valid descriptor.)

USE carbon-oxygen lyases

**POLYSACCHARIDES**

\*BT1 saccharides  
NT1 agar  
NT1 alginic acid

NT1 cellophane  
NT1 cellulose  
NT1 dextran  
NT1 dextrin  
NT1 glycogen  
NT1 gum acacia  
NT1 hemicellulose  
NT2 xylans  
NT1 inulin  
NT1 lignin  
NT1 lipopolysaccharides  
NT1 mucopolysaccharides  
NT2 chitin  
NT2 chondroitin  
NT2 heparin  
NT2 hyaluronic acid  
NT1 mucoproteins  
NT2 haptoglobins  
NT2 intrinsic factor  
NT2 phytohemagglutinin  
NT1 nitrocellulose  
NT1 pectins  
NT1 rayon  
NT1 starch  
NT1 viscose  
NT1 xanthan gum  
RT endotoxins  
RT lysozyme  
RT pyrogens  
RT zymosan

**POLYSTYRENE**

UF styrene polymers  
\*BT1 plastics  
\*BT1 polyolefins  
\*BT1 polyvinyls  
RT styrene

**POLYSTYRENE-DVB**

UF styrene-divinylbenzene copolymer  
\*BT1 organic ion exchangers  
\*BT1 polyolefins

**polysulfides**

USE sulfides

**POLYTETRAFLUOROETHYLENE**

INIS: 2000-04-12; ETDE: 1978-05-03

UF ptfe  
\*BT1 fluorinated aliphatic hydrocarbons  
\*BT1 polyethylenes  
NT1 teflon

**polytetraoxane**

INIS: 2000-04-12; ETDE: 1980-12-08

USE heterocyclic oxygen compounds  
USE organic polymers

**polythene**

USE polyethylenes

**polythionates**

USE oxygen compounds  
USE sulfur compounds

**polythionic acids**

USE inorganic acids  
USE oxygen compounds  
USE sulfur compounds

**POLYURETHANES**

\*BT1 plastics  
\*BT1 polyamides  
NT1 halthane  
RT urethane

**POLYVINYL ACETATE**

2005-02-22

\*BT1 acetic acid esters  
\*BT1 polyvinyls

**polyvinyl alcohol**

USE pva

**polyvinyl chloride**

USE pvc

**polyvinylpyrrolidone**

USE pvp

**POLYVINYL**

UF poly(vinylidene fluoride)  
UF vinoflex  
\*BT1 organic polymers  
NT1 polyacrylates  
NT2 lucite  
NT2 perspex  
NT2 plexiglas  
NT2 pmma  
NT1 polystyrene  
NT1 polyvinyl acetate  
NT1 pva  
NT1 pvc  
NT1 pvp  
NT1 tedlar  
RT glazing materials

**POMERANCHUK PARTICLES**

UF pomérons  
BT1 quasi particles  
RT morrison rule  
RT regge poles

**POMERANCHUK POLES**

RT regge poles

**POMERANCHUK THEOREM**

RT antiparticle beams  
RT interactions  
RT particle beams  
RT total cross sections

**pomérons**

USE pomeranchuk particles

**ponderomotive effect**

INIS: 1989-04-20; ETDE: 2002-04-26

USE ponderomotive force

**PONDEROMOTIVE FORCE**

INIS: 1989-04-20; ETDE: 1989-05-11

UF ponderomotive effect  
RT charged particles  
RT coulomb field  
RT electromagnetic fields  
RT lorentz force

**PONDS**

1992-04-07

UF pools  
BT1 surface waters  
NT1 cooling ponds  
NT1 settling ponds  
NT1 solar ponds  
NT2 roof ponds  
RT lakes

**ponds (cooling)**

1992-06-05

USE cooling ponds

**POOL BOILING**

\*BT1 boiling

**pool critical assembly ornl**

USE ornl-pca reactor

**pool event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**pool test reactor chalk river**

1993-11-09

USE ptr reactor

**POOL TYPE REACTORS**

*UF* swimming pool reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
 NT1 agata reactor  
 NT1 apsara reactor  
 NT1 armf-1 reactor  
 NT1 astra reactor  
 NT1 atrc reactor  
 NT1 avogadro rs-1 reactor  
 NT1 barn reactor  
 NT1 bawtr reactor  
 NT1 ber-2 reactor  
 NT1 brr reactor  
 NT1 bsr-1 reactor  
 NT1 bsr-2 reactor  
 NT1 cabri reactor  
 NT1 consort-2 reactor  
 NT1 cp-6 reactor  
 NT1 crocus reactor  
 NT1 democritus reactor  
 NT1 dr-2 reactor  
 NT1 etrc reactor  
 NT1 etrr-2 reactor  
 NT1 fmr reactor  
 NT1 fnr reactor  
 NT1 frg-1 reactor  
 NT1 frg-2 reactor  
 NT1 frj-1 reactor  
 NT1 frm-ii reactor  
 NT1 frm reactor  
 NT1 frn reactor  
 NT1 ga siwabessy reactor  
 NT1 gtr reactor  
 NT1 gulf triga-mk-3 reactor  
 NT1 hanaro reactor  
 NT1 herald reactor  
 NT1 hor reactor  
 NT1 horace reactor  
 NT1 htr reactor  
 NT1 ian-r1 reactor  
 NT1 iear-1 reactor  
 NT1 ir-100 reactor  
 NT1 irl reactor  
 NT1 irr-1 reactor  
 NT1 irt-2000 djakarta reactor  
 NT1 irt-2000 moscow reactor  
 NT1 irt-c reactor  
 NT1 irt-f reactor  
 NT1 irt reactor  
 NT1 irt-sofia reactor  
 NT1 isis reactor  
 NT1 ivv-2m reactor  
 NT1 ivv-7 reactor  
 NT1 jen-1 reactor  
 NT1 jen-2 reactor  
 NT1 jen reactor  
 NT1 jrr-3m reactor  
 NT1 jrr-4 reactor  
 NT1 jules horowitz reactor  
 NT1 kur reactor  
 NT1 la reina rech-1 reactor  
 NT1 lido reactor  
 NT1 lo aguirre rech-2 reactor  
 NT1 lpr reactor  
 NT1 lprr reactor  
 NT1 lr-0 reactor  
 NT1 ltir reactor  
 NT1 maria reactor  
 NT1 maryla reactor  
 NT1 melusine-1 reactor  
 NT1 merlin reactor  
 NT1 minerve reactor  
 NT1 mnr reactor  
 NT1 nscr reactor  
 NT1 nur reactor  
 NT1 opal reactor  
 NT1 osur reactor  
 NT1 parr-1 reactor

NT1 phebus reactor  
 NT1 pik physical model reactor  
 NT1 prpr reactor  
 NT1 prr-1 reactor  
 NT1 pstr reactor  
 NT1 ptr reactor  
 NT1 pulstar-buffalo reactor  
 NT1 pulstar-raleigh reactor  
 NT1 pur-1 reactor  
 NT1 r2-0 reactor  
 NT1 ra-6 reactor  
 NT1 ra-8 reactor  
 NT1 rana reactor  
 NT1 rinsc reactor  
 NT1 ritmo reactor  
 NT1 rp-10 reactor  
 NT1 rts-1 reactor  
 NT1 rv-1 reactor  
 NT1 saphir reactor  
 NT1 scarabee reactor  
 NT1 siloe reactor  
 NT1 siloette reactor  
 NT1 slowpoke type reactors  
     NT2 slowpoke-alberta reactor  
     NT2 slowpoke-dalhouses reactor  
     NT2 slowpoke-montreal reactor  
     NT2 slowpoke-ottawa reactor  
     NT2 slowpoke-toronto reactor  
     NT2 slowpoke-wnre reactor  
 NT1 spert-4 reactor  
 NT1 stek reactor  
 NT1 stir reactor  
 NT1 swierk r-2 reactor  
 NT1 thetis reactor  
 NT1 thor reactor  
 NT1 toshiba reactor  
 NT1 tr-1 reactor  
 NT1 tr-2 reactor  
 NT1 triton reactor  
 NT1 trr-1 reactor  
 NT1 tz1 reactor  
 NT1 tz2 reactor  
 NT1 uknr reactor  
 NT1 umne-1 reactor  
 NT1 umrr reactor  
 NT1 utrr reactor  
 NT1 uvar reactor  
 NT1 uwnr reactor  
 NT1 vr-1 reactor  
 NT1 wpir reactor  
 NT1 wsur reactor  
 NT1 xapr reactor

**pools**

*INIS: 1992-04-07*  
 USE ponds

**pools (fuel storage)**

*INIS: 1985-01-17; ETDE: 2002-04-26*  
 USE fuel storage pools

**poor people**

*INIS: 2000-04-12; ETDE: 1978-04-05*  
 USE low income groups

**pop (paroxypropione)**

*ETDE: 2005-02-01*  
 (Prior to January 2005 POP was a valid descriptor.)  
 USE hydroxypropiphenone

**popae**

*INIS: 2000-04-12; ETDE: 1975-11-11*  
 (Prior to July 1985, this was a valid ETDE descriptor.)  
 USE popae storage ring

**POP AE STORAGE RING**

*INIS: 1976-02-11; ETDE: 1976-03-25*  
*Protons On Protons And Electrons storage ring facility at Fermilab.*  
*UF* popae  
 BT1 storage rings  
 RT fermilab accelerator

**POPLARS**

\*BT1 magnoliopsida  
 \*BT1 trees  
 NT1 aspens  
 NT1 cottonwoods

**POPOP**

*UF* bis(phenyloxazoly)benzene  
 \*BT1 oxazoles

**POPULATION DENSITY**

*UF* density (population)  
 RT population dynamics  
 RT populations

**POPULATION DYNAMICS**

RT competition  
 RT ecological balance  
 RT ecological succession  
 RT ecosystems  
 RT equilibrium  
 RT growth  
 RT human populations  
 RT migration  
 RT population density  
 RT population relocation  
 RT populations  
 RT predator-prey interactions  
 RT reproduction

**POPULATION INVERSION**

RT energy levels

**POPULATION RELOCATION**

*INIS: 1981-07-08; ETDE: 1978-04-28*  
 RT accidents  
 RT civil defense  
 RT evacuation  
 RT external zones  
 RT human populations  
 RT population dynamics  
 RT populations

**POPULATIONS**

*UF* caste (insects)  
*UF* colonies  
 NT1 human populations  
     NT2 a-bomb survivors  
     NT2 eskimos  
     NT2 minority groups  
     NT3 american indians  
     NT3 black americans  
     NT3 elderly people  
     NT3 handicapped people  
     NT3 high income groups  
     NT3 hispanic americans  
     NT3 lapps  
     NT3 low income groups  
     NT3 oriental americans  
     NT2 rural populations  
     NT2 urban populations  
 RT adults  
 RT age groups  
 RT biological extinction  
 RT biosphere  
 RT ecosystems  
 RT genetically significant dose  
 RT population density  
 RT population dynamics  
 RT population relocation  
 RT species diversity

**PORCELAIN**

RT ceramics

**PORE PRESSURE**

INIS: 1992-07-21; ETDE: 1983-04-28

That part of the total normal stress in a saturated soil caused by the presence of interstitial fluid.

RT hydrostatics  
RT interstitial water  
RT piezometry  
RT sediments  
RT stresses

**PORE STRUCTURE**

INIS: 1998-11-12; ETDE: 1993-08-24

BT1 microstructure  
RT porosity

**PORINS**

INIS: 2000-04-12; ETDE: 1987-07-22

Transmembrane proteins which selectively permit small molecules to traverse the cell membranes.

\*BT1 membrane proteins  
RT membrane transport

**pork**

USE meat

**POROSIMETERS**

BT1 measuring instruments

**POROSITY**

UF collector properties  
UF collector properties (rocks)  
RT ceramography  
RT defects  
RT formation damage  
RT leaks  
RT permeability  
RT pore structure  
RT porous materials  
RT sintering

**porosity reduction**

INIS: 2000-04-12; ETDE: 1983-01-21

USE formation damage

**POROUS MATERIALS**

INIS: 1977-07-05; ETDE: 1976-09-14

UF materials (porous)  
BT1 materials  
RT porosity

**PORPHYRA**

\*BT1 rhodophycota

**PORPHYRINS**

1997-06-17

UF etioporphyrins  
\*BT1 heterocyclic acids  
\*BT1 organic nitrogen compounds  
NT1 chlorins  
NT1 chlorophyll  
NT1 hematoporphyrins  
NT1 heme  
NT1 hemoglobin  
NT2 methemoglobin  
NT1 hemosiderin  
NT1 myoglobin  
NT1 protoporphyrins  
RT peroxidases  
RT pigments

**porpoises**

INIS: 1991-09-30; ETDE: 1981-06-15

USE cetaceans

**port radium**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE northwest territories

**PORTABLE EQUIPMENT**

INIS: 1983-06-30; ETDE: 1983-07-20

To be used only if portability is unusual or is the significant aspect of the equipment.

BT1 equipment  
RT laboratory equipment  
RT portable sources

**portable medium power plant 2a**

USE pm-2a reactor

**portable medium power plant 3a**

USE pm-3a reactor

**PORTABLE SOURCES**

BT1 radiation sources  
RT portable equipment

**PORTAL SYSTEM**

\*BT1 veins  
RT intestinal absorption  
RT intestines  
RT liver

**PORTER-THOMAS DISTRIBUTION**

RT compound nuclei  
RT level widths

**portevin-le chatelier effect**

2000-04-12

The continually repeating non-smooth deformation of a specimen when subjected to a uniformly increasing stress.

(Prior to May 1996 this was a valid ETDE descriptor.)

USE deformation

**PORTLAND CEMENT**

1992-05-08

\*BT1 cements  
RT cement industry  
RT lime-soda sinter process  
RT spent shales

**portmanteau event**

INIS: 2000-04-12; ETDE: 1975-12-16

A test made during PROJECT BEDROCK.

(Prior to January 1995, this was a valid ETDE descriptor.)

USE nuclear explosions  
USE underground explosions

**ports**

2000-04-12

USE harbors

**PORTSMOUTH CENTRIFUGE ENRICHMENT PLANT**

INIS: 1982-08-27; ETDE: 1981-05-18

Portsmouth centrifuge enrichment plant.

UF gcep  
SF portsmouth plant  
\*BT1 centrifuge enrichment plants  
\*BT1 us doe  
RT enriched uranium  
RT isotope separation  
RT ohio

**PORTSMOUTH GASEOUS DIFFUSION PLANT**

INIS: 1975-10-09; ETDE: 1975-12-16

SF portsmouth plant  
\*BT1 gaseous diffusion plants  
\*BT1 us doe  
\*BT1 us erda  
RT ohio

**portsmouth plant**

INIS: 1992-06-04; ETDE: 1976-05-19

SEE portsmouth centrifuge enrichment plant

SEE portsmouth gaseous diffusion plant

**PORTUGAL**

1995-04-03

BT1 developing countries  
\*BT1 western europe  
NT1 azores islands  
RT oecd

**portuguese jen research reactor**

USE jen reactor

**PORTUGUESE ORGANIZATIONS**

2004-03-31

BT1 national organizations

**position (optical)**

USE coordinates

**position (radio)**

USE coordinates

**position dependence**

INIS: 2000-04-12; ETDE: 1979-08-07

USE space dependence

**position indicators**

USE displacement gages

**POSITION OPERATORS**

\*BT1 quantum operators  
RT coordinates

**POSITION SENSITIVE DETECTORS**

\*BT1 radiation detectors  
RT counting techniques  
RT superconducting colloid detectors

**POSITIONING**

INIS: 1982-12-07; ETDE: 1977-03-08

Not for SITE SELECTION.

UF emplacement  
RT alignment  
RT fuel elements  
RT global positioning system  
RT in core instruments  
RT offshore platforms  
RT pipelines  
RT ships  
RT stowage  
RT targets  
RT thrusters

**POSITIVE COLUMN**

RT electric discharges

**positive crankcase ventilation systems**

INIS: 2000-04-12; ETDE: 1979-03-05

USE pcv systems

**positive excess**

1996-07-08

(Until June 1996 this was a valid descriptor.)

SEE cosmic radiation  
SEE electric charges

**positive ions**

USE cations

**POSITRON-ATOM COLLISIONS**

\*BT1 atom collisions  
\*BT1 positron collisions

**POSITRON BEAMS**

UF beta beams (positrons)  
\*BT1 lepton beams  
RT positrons

**POSITRON CAMERAS**

*Coincidence gamma cameras for positron annihilation imaging.*

- \*BT1 gamma cameras
- RT coincidence methods
- RT emission computed tomography
- RT nuclear medicine
- RT positron computed tomography
- RT positron detection
- RT radioisotope scanners

**POSITRON CHANNELING**

- BT1 channeling

**POSITRON COLLISIONS**

- BT1 collisions
- NT1 electron-positron collisions
- NT1 photon-positron collisions
- NT1 positron-atom collisions
- NT1 positron-ion collisions
- NT1 positron-molecule collisions
- NT1 positron-positron collisions

**POSITRON COMPUTED TOMOGRAPHY**

*INIS: 1980-04-02; ETDE: 1980-05-07*

- UF *pet scanning*
- UF *pett*
- \*BT1 emission computed tomography
- RT positron cameras
- RT radioisotope scanning

**positron decay**

- USE beta-plus decay

**POSITRON DETECTION**

*INIS: 1986-04-04; ETDE: 1979-04-11*

(Prior to April 1986 this concept was expressed by co-ordination of ELECTRON DETECTION and POSITRONS.)

- \*BT1 charged particle detection
- RT beta detection
- RT electron detection
- RT positron cameras

**positron-electron-proton storage ring**

*1993-11-09*

- USE pep storage rings

**POSITRON-ION COLLISIONS**

- \*BT1 ion collisions
- \*BT1 positron collisions

**POSITRON-MOLECULE COLLISIONS**

- \*BT1 molecule collisions
- \*BT1 positron collisions

**POSITRON-POSITRON COLLISIONS**

*ETDE: 1989-09-15*

- \*BT1 positron collisions

**POSITRON-POSITRON INTERACTIONS**

*INIS: 1986-05-23; ETDE: 1980-05-06*

- \*BT1 lepton-lepton interactions

**POSITRON REACTIONS**

*INIS: 1977-09-15; ETDE: 1977-11-10*

- \*BT1 lepton reactions

**POSITRON SOURCES**

*INIS: 1975-09-16; ETDE: 1975-10-28*

- \*BT1 particle sources
- RT positrons

**POSITRONIUM**

(From December 1975 till May 1996

POSITRONIUM CHEMISTRY was a valid ETDE descriptor.)

- SF *positronium chemistry*
- RT atoms

- RT electrons
- RT muonium
- RT positronium compounds
- RT positrons
- RT protonium

**positronium chemistry**

*INIS: 2000-04-12; ETDE: 1975-12-16*

Use CHEMISTRY, CHEMICAL PROPERTIES, or CHEMICAL REACTIONS (or an NT) in addition to one of the descriptors below.

(Prior to May 1996 this was a valid ETDE descriptor.)

- SEE positronium
- SEE positronium compounds

**POSITRONIUM COMPOUNDS**

*INIS: 1985-09-09; ETDE: 1977-05-07*

*Atom-positronium systems of the type (X;Ps) or (X;-e+).*

- SF *positronium chemistry*
- RT positronium

**POSITRONS**

- \*BT1 antileptons
- NT1 cosmic positrons
- RT beta particles
- RT electron pairs
- RT electrons
- RT positron beams
- RT positron sources
- RT positronium

**possession (nuclear materials)**

*INIS: 1976-12-08; ETDE: 2002-04-26*

- USE nuclear materials possession

**POST-IRRADIATION EXAMINATION**

*1981-04-03*

- RT ceramography
- RT chemical analysis
- RT destructive testing
- RT electron microprobe analysis
- RT fuel elements
- RT inspection
- RT performance testing
- RT spectroscopy

**POST-IRRADIATION THERAPY**

- \*BT1 therapy
- RT biological recovery
- RT blood substitutes

**POST-TRANSLATION MODIFICATION**

*INIS: 1991-07-02; ETDE: 1987-04-24*

*Chemical modification of proteins after translation of the messenger RNA but prior to their becoming biologically active.*

- \*BT1 biosynthesis
- RT cell constituents
- RT glucoproteins
- RT glycoproteins
- RT golgi complexes
- RT messenger-rna
- RT phosphoproteins
- RT protein structure
- RT proteins
- RT proteolysis
- RT transcription

**POSTAL SERVICES**

*INIS: 2000-04-12; ETDE: 1980-08-12*

- RT delivery
- RT vehicles

**POSTULATED PARTICLES**

*1995-09-08*

- BT1 elementary particles

- NT1 dyons
- NT1 goldstone bosons
- NT2 axions
- NT1 gravitons
- NT1 heavy neutral muons
- NT1 higgs bosons
- NT1 magnetic monopoles
- NT1 preons
- NT1 sparticles
- NT1 spurions
- NT1 tachyons
- NT1 top particles
- NT2 t quarks
- NT3 t antiquarks

**postum**

*1995-11-06*

- USE polonium 210

**potable water**

*INIS: 2000-04-12; ETDE: 1980-02-11*

- USE drinking water

**POTASSIUM**

- \*BT1 alkali metals

**POTASSIUM 32**

*2007-11-22*

- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 potassium isotopes

**POTASSIUM 33**

*2007-11-22*

- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 potassium isotopes
- \*BT1 proton decay radioisotopes

**POTASSIUM 34**

*2007-11-22*

- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 potassium isotopes
- \*BT1 proton decay radioisotopes

**POTASSIUM 35**

*1976-07-30*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 potassium isotopes

**POTASSIUM 36**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 potassium isotopes

**POTASSIUM 37**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 potassium isotopes
- \*BT1 seconds living radioisotopes

**POTASSIUM 38**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 potassium isotopes
- \*BT1 seconds living radioisotopes

**POTASSIUM 39**

- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 potassium isotopes
- \*BT1 stable isotopes

**POTASSIUM 39 BEAMS**

*INIS: 1976-07-06; ETDE: 1976-09-15*

\*BT1 ion beams

**POTASSIUM 39 REACTIONS**

*INIS: 1991-09-25; ETDE: 1994-08-10*

\*BT1 heavy ion reactions

**POTASSIUM 39 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**POTASSIUM 40**

\*BT1 beta-minus decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 light nuclei  
\*BT1 nanoseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes  
\*BT1 years living radioisotopes  
*RT* natural radioactivity

**POTASSIUM 40 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**POTASSIUM 41**

\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes  
\*BT1 stable isotopes  
*RT* potassium 41 beams

**POTASSIUM 41 BEAMS**

*INIS: 1976-07-06; ETDE: 1976-08-24*

\*BT1 ion beams

*RT* potassium 41

**POTASSIUM 41 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**POTASSIUM 42**

\*BT1 beta-minus decay radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes

**POTASSIUM 43**

\*BT1 beta-minus decay radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes

**POTASSIUM 44**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes

**POTASSIUM 45**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes

**POTASSIUM 46**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes

**POTASSIUM 47**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei

\*BT1 potassium isotopes  
\*BT1 seconds living radioisotopes

**POTASSIUM 48**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes  
\*BT1 seconds living radioisotopes

**POTASSIUM 49**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes  
\*BT1 seconds living radioisotopes

**POTASSIUM 50**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes

**POTASSIUM 51**

*INIS: 1984-06-21; ETDE: 1981-01-27*

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes

**POTASSIUM 52**

*INIS: 1984-06-21; ETDE: 1982-05-12*

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes

**POTASSIUM 53**

*INIS: 1984-06-21; ETDE: 1984-02-10*

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes

**POTASSIUM 54**

*INIS: 1984-06-21; ETDE: 1984-02-10*

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes

**POTASSIUM 55**

*2007-11-22*

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes

**POTASSIUM ADDITIONS**

*Alloys containing not more than 1% K are listed here.*

*RT* potassium alloys

**POTASSIUM ALLOYS**

*Alloys containing more than 1% K.*

*UF* *nak*

BT1 alloys

NT1 potassium base alloys

*RT* potassium additions

**POTASSIUM BASE ALLOYS**

\*BT1 potassium alloys

**POTASSIUM BORIDES**

\*BT1 borides  
\*BT1 potassium compounds

**POTASSIUM BROMIDES**

\*BT1 bromides  
\*BT1 potassium compounds

**POTASSIUM CARBIDES**

\*BT1 carbides  
\*BT1 potassium compounds

**POTASSIUM CARBONATES**

\*BT1 carbonates  
\*BT1 potassium compounds

**POTASSIUM CHLORIDES**

\*BT1 chlorides  
\*BT1 potassium compounds  
*RT* carnallite  
*RT* halide minerals

**POTASSIUM COMPLEXES**

\*BT1 alkali metal complexes

**POTASSIUM COMPOUNDS**

*1996-07-23*

*UF* *potassium permanganates*

*UF* *prussian blue*

BT1 alkali metal compounds

NT1 potassium borides

NT1 potassium bromides

NT1 potassium carbides

NT1 potassium carbonates

NT1 potassium chlorides

NT1 potassium fluorides

NT1 potassium hydrides

NT1 potassium hydroxides

NT1 potassium iodides

NT1 potassium nitrates

NT1 potassium nitrides

NT1 potassium oxides

NT1 potassium perchlorates

NT1 potassium phosphates

NT1 potassium phosphides

NT1 potassium selenides

NT1 potassium silicates

NT1 potassium silicides

NT1 potassium sulfates

NT1 potassium sulfides

NT1 potassium tellurides

NT1 potassium tungstates

NT1 potassium uranates

NT1 potassium vanadates

NT1 rochelle salt

**POTASSIUM COOLED REACTORS**

\*BT1 liquid metal cooled reactors

NT1 ebr-1 reactor

NT1 ser reactor

NT1 snap 10 reactor

NT2 s10fs-1 reactor

NT2 s10fs-3 reactor

NT2 s10fs-4 reactor

NT1 snap-tsrf reactor

NT1 snaptran reactors

*RT* nak cooled reactors

**POTASSIUM FLUORIDES**

\*BT1 fluorides  
\*BT1 potassium compounds

**POTASSIUM HYDRIDES**

\*BT1 hydrides  
\*BT1 potassium compounds

**POTASSIUM HYDROXIDES**

\*BT1 hydroxides  
\*BT1 potassium compounds

**POTASSIUM IODIDES**

\*BT1 inorganic phosphors  
\*BT1 iodides  
\*BT1 potassium compounds  
*RT* lugol



**POTASSIUM IONS**

\*BT1 ions

**POTASSIUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 potassium 32  
 NT1 potassium 33  
 NT1 potassium 34  
 NT1 potassium 35  
 NT1 potassium 36  
 NT1 potassium 37  
 NT1 potassium 38  
 NT1 potassium 39  
 NT1 potassium 40  
 NT1 potassium 41  
 NT1 potassium 42  
 NT1 potassium 43  
 NT1 potassium 44  
 NT1 potassium 45  
 NT1 potassium 46  
 NT1 potassium 47  
 NT1 potassium 48  
 NT1 potassium 49  
 NT1 potassium 50  
 NT1 potassium 51  
 NT1 potassium 52  
 NT1 potassium 53  
 NT1 potassium 54  
 NT1 potassium 55

**POTASSIUM NITRATES**

\*BT1 nitrates  
 \*BT1 potassium compounds

**POTASSIUM NITRIDES**

\*BT1 nitrides  
 \*BT1 potassium compounds

**POTASSIUM OXIDES**

\*BT1 oxides  
 \*BT1 potassium compounds  
 RT clarkeite  
 RT oxide minerals

**POTASSIUM PERCHLORATES**

\*BT1 perchlorates  
 \*BT1 potassium compounds

**potassium permanganates**

INIS: 2000-04-12; ETDE: 1975-09-11

(Prior to April 1997 this was a valid ETDE descriptor.)

USE permanganates  
 USE potassium compounds

**POTASSIUM PHOSPHATES**

\*BT1 phosphates  
 \*BT1 potassium compounds

**POTASSIUM PHOSPHIDES**

INIS: 1991-09-16; ETDE: 1984-12-26

\*BT1 phosphides  
 \*BT1 potassium compounds

**POTASSIUM SELENIDES**

INIS: 1991-09-16; ETDE: 1978-04-06

\*BT1 potassium compounds  
 \*BT1 selenides

**POTASSIUM SILICATES**

1996-11-13

\*BT1 potassium compounds  
 \*BT1 silicates  
 RT silicate minerals

**POTASSIUM SILICIDES**

INIS: 1996-07-23; ETDE: 1977-01-10

(From July 1996 to November 2007  
 POTASSIUM COMPOUNDS + SILICIDES  
 was used for this concept.)

\*BT1 potassium compounds

\*BT1 silicides

**POTASSIUM SULFATES**

\*BT1 potassium compounds  
 \*BT1 sulfates  
 RT polyhalite  
 RT sulfate minerals

**POTASSIUM SULFIDES**

\*BT1 potassium compounds  
 \*BT1 sulfides

**POTASSIUM TELLURIDES**

INIS: 1979-09-18; ETDE: 1978-01-23

\*BT1 potassium compounds  
 \*BT1 tellurides

**POTASSIUM TUNGSTATES**

INIS: 1978-05-19; ETDE: 1976-01-23

\*BT1 potassium compounds  
 \*BT1 tungstates

**POTASSIUM URANATES**

INIS: 1975-11-27; ETDE: 1975-08-19

\*BT1 potassium compounds  
 \*BT1 uranates

**POTASSIUM VANADATES**

INIS: 1991-09-16; ETDE: 1981-06-13

\*BT1 potassium compounds  
 \*BT1 vanadates

**potato plant**

USE solanum tuberosum

**potato tubers**

USE potatoes

**POTATOES**

UF potato tubers  
 BT1 tubers  
 \*BT1 vegetables  
 RT solanum tuberosum  
 RT sprout inhibition

**potential (electric)**

INIS: 1981-10-15; ETDE: 1979-03-27

USE electric potential

**potential barriers**

INIS: 2000-04-12; ETDE: 1979-04-11

USE potentials

**POTENTIAL ENERGY**

BT1 energy  
 NT1 fission barrier  
 RT kinetic energy  
 RT lagrangian function  
 RT landau-zener formula  
 RT potentials

**POTENTIAL FLOW**

BT1 fluid flow

**POTENTIAL SCATTERING**

\*BT1 elastic scattering  
 RT coulomb scattering  
 RT potentials

**POTENTIALS**

INIS: 1996-06-28; ETDE: 1979-04-11

For the mathematical construct from which forces are derived by differentiation; not for

ELECTRIC POTENTIAL.  
 UF levy-klein potential  
 UF levy potential  
 UF periodic potentials  
 UF potential barriers

NT1 buckingham potential  
 NT1 central potential  
 NT1 kihara potential  
 NT1 lennard-jones potential  
 NT1 morse potential

NT1 muffin-tin potential

NT1 nonlocal potential

NT1 nuclear potential

NT2 fission barrier

NT2 hard-core potential

NT2 harmonic potential

NT2 hulthen potential

NT2 soft-core potential

NT2 square-well potential

NT2 woods-saxon potential

NT2 yukawa potential

NT1 nucleon-nucleon potential

NT2 gauss potential

NT2 hamada-johnston potential

NT2 reid potential

NT2 schiffer potential

NT2 skyrme potential

NT2 surface delta potential

NT2 yamaguchi potential

NT1 ope potential

NT2 gammel-thaler potential

NT1 roche equipotentials

NT1 surface potential

NT1 tabakin potential

RT basic interactions

RT electromagnetic fields

RT gravitational fields

RT interatomic forces

RT intermolecular forces

RT noncentral forces

RT nuclear forces

RT potential energy

RT potential scattering

RT rosenfeld force

RT tensor forces

**POTENTIOMETERS**

1983-02-04

\*BT1 electric measuring instruments

RT potentiostats

RT resistors

**potentiometers (variable resistors)**

INIS: 1993-11-09; ETDE: 2002-04-26

USE resistors

**POTENTIOMETRY**

1996-10-23

\*BT1 titration

RT redox potential

**POTENTIOSTATS**

INIS: 2000-04-12; ETDE: 1979-03-28

Automatic instruments that control the potential of working electrodes during coulometric titrations.

BT1 measuring instruments

RT potentiometers

RT titration

RT voltametry

**POTHEADS**

INIS: 2000-04-12; ETDE: 1977-03-08

Hermetically sealed terminations for electric cables.

\*BT1 electrical equipment

RT connectors

**POTOMAC RIVER**

1977-09-06

\*BT1 rivers

RT maryland

RT potomac river basin

RT virginia

RT west virginia

**POTOMAC RIVER BASIN**

INIS: 1992-01-14; ETDE: 1980-11-08

BT1 watersheds

RT maryland

RT pennsylvania

RT potomac river  
 RT virginia  
 RT washington dc  
 RT west virginia

**potorous**

USE marsupials

**pott-broche process**

2000-04-12

*Direct conversion of coal to synthetic crude oil by hydrogenation after solvent extraction. (Prior to March 1994, this was a valid ETDE descriptor.)*

USE coal liquefaction

**POTTING**

INIS: 1986-04-04; ETDE: 1979-04-12

*Encapsulation with a shock-absorbing dielectric material.*

RT dielectric materials  
 RT electrical equipment  
 RT electronic equipment  
 RT encapsulation  
 RT impact shock  
 RT potting materials

**POTTING MATERIALS**

INIS: 1986-04-04; ETDE: 1979-03-29

*Shock-absorbing dielectric materials used for encapsulation.*

BT1 materials  
 RT dielectric materials  
 RT electrical equipment  
 RT electronic equipment  
 RT encapsulation  
 RT epoxides  
 RT potting

**poultry**

USE fowl

**POUR POINT**

2000-04-12

*The lowest temperature at which a substance flows under specified conditions.*

RT fluids  
 RT liquids

**POWDER METALLURGY**

BT1 metallurgy  
 RT compacting  
 RT powders  
 RT sintered materials  
 RT sintering

**POWDER RIVER BASIN**

INIS: 1992-06-04; ETDE: 1985-08-22

\*BT1 montana  
 BT1 watersheds  
 \*BT1 wyoming  
 RT coal deposits  
 RT natural gas deposits  
 RT petroleum deposits  
 RT sedimentary basins

**POWDERS**

RT compacts  
 RT debye-scherrer method  
 RT dusts  
 RT elutriation  
 RT granular materials  
 RT particle size  
 RT particles  
 RT powder metallurgy  
 RT pulverized fuels  
 RT sintered materials  
 RT specific surface area

**POWER**

NT1 electric power  
 NT2 hydroelectric power

NT2 off-peak power  
 NT2 surplus power  
 NT1 nuclear power  
 NT2 residual power  
 NT1 wave power  
 NT1 wind power  
 RT energy consumption  
 RT power generation  
 RT power input  
 RT power range  
 RT thermonuclear reactors

**POWER AMPLIFIERS**

\*BT1 amplifiers

**power beaming**

INIS: 1992-08-11; ETDE: 2002-04-26

USE laser power transmission

**power burst facility usaec**

2000-04-12

USE pbf reactor

**POWER COEFFICIENT**

BT1 reactivity coefficients

**POWER CONDITIONING CIRCUITS**

1999-07-05

(Prior to December 1990, this concept was indexed by POWERCONDITIONING SYSTEMS and ELECTRONIC CIRCUITS.)

UF power conditioning systems  
 BT1 electronic circuits  
 RT control systems  
 RT dc to dc converters  
 RT inverters  
 RT power supplies

**power conditioning systems**

INIS: 1990-12-15; ETDE: 1975-12-16

(Prior to December 1990, this was a valid descriptor.)

USE power conditioning circuits

**POWER-COOLING-MISMATCH ACCIDENTS**

UF pcm accidents  
 \*BT1 reactor accidents

**POWER DEMAND**

UF loads (power demand)  
 BT1 demand  
 RT demand factors  
 RT electric power  
 RT energy demand  
 RT fill factors  
 RT off-peak power  
 RT peak load

**POWER DENSITY**

UF density (power)  
 NT1 wall loading  
 RT neutron density  
 RT power distribution  
 RT reactor cores  
 RT reactor lattices

**POWER DISTRIBUTION**

INIS: 1999-10-12; ETDE: 1975-07-29

*The spatial distribution of power level throughout a reactor core or fuel element. Not to be confused with the movement of power from one point to another, for which see POWER TRANSMISSION.*

RT power density  
 RT reactor cores

**POWER DISTRIBUTION SYSTEMS**

INIS: 1992-04-02; ETDE: 1981-03-17

*Systems for distributing electric power from convenient points on the transmission or bulk power system to the consumers.*

RT gas-insulated substations  
 RT power substations  
 RT power systems  
 RT power transmission

**power excursions**

USE excursions

**POWER FACTOR**

INIS: 2000-06-27; ETDE: 1977-09-19

*The ratio of the average or active power to the apparent power.*

UF phase factor  
 BT1 dimensionless numbers  
 RT interconnected power systems  
 RT power generation  
 RT power systems  
 RT power transmission  
 RT var control systems

**POWER GENERATION**

UF power production  
 NT1 cogeneration  
 NT1 microgeneration  
 NT1 on-site power generation  
 RT capacity  
 RT dispersed storage and generation  
 RT dual-purpose power plants  
 RT electric power  
 RT fill factors  
 RT flood control  
 RT gas turbine power plants  
 RT interconnected power systems  
 RT nuclear power  
 RT power  
 RT power factor  
 RT power plants  
 RT power pooling  
 RT power substations  
 RT power systems  
 RT refuse-fueled power plants

**POWER INPUT**

INIS: 1985-01-18; ETDE: 1977-09-19

*Power required to operate machinery, appliance, or other device.*

UF wattage  
 RT power

**POWER LOSSES**

INIS: 1999-07-06; ETDE: 1979-01-30

UF line losses  
 \*BT1 energy losses  
 RT electric power  
 RT outages  
 RT power transmission

**POWER METERS**

INIS: 1992-07-22; ETDE: 1978-01-23

UF watt-hour meters  
 \*BT1 electric measuring instruments  
 \*BT1 meters  
 RT electric power  
 RT energy consumption  
 RT master metering  
 RT metering  
 RT peak-load pricing

**power plant and industrial fuel use act**

INIS: 2000-04-12; ETDE: 1980-05-06

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us power plant and industrial fuel use act

**POWER PLANTS**

UF douglas point site  
 UF plants (power)  
 NT1 dual-purpose power plants  
 NT1 fuel cell power plants  
 NT1 gas turbine power plants  
 NT1 hydroelectric power plants  
 NT2 high-head hydroelectric power plants  
 NT2 low-head hydroelectric power plants  
 NT2 medium-head hydroelectric power plants  
 NT2 micro-scale hydroelectric power plants  
 NT2 pumped storage power plants  
 NT2 small-scale hydroelectric power plants  
 NT1 mhd power plants  
 NT2 mhd generator etf  
 NT1 peaking power plants  
 NT2 compressed air storage power plants  
 NT2 pumped storage power plants  
 NT1 solar power plants  
 NT2 ocean thermal power plants  
 NT2 orbital solar power plants  
 NT2 photovoltaic power plants  
 NT2 salinity gradient power plants  
 NT2 solar thermal power plants  
 NT3 distributed collector power plants  
 NT3 tower focus power plants  
 NT4 barstow solar pilot plant  
 NT1 thermal power plants  
 NT2 combined-cycle power plants  
 NT3 mhd generator etf  
 NT2 fossil-fuel power plants  
 NT3 kingston steam plant  
 NT3 paradise steam plant  
 NT3 shawnee steam plant  
 NT3 widows creek steam plant  
 NT2 geothermal power plants  
 NT2 nuclear power plants  
 NT3 bopssar standard plant  
 NT3 ebasco standard plant  
 NT3 gibbsar standard plant  
 NT3 offshore nuclear power plants  
 NT3 swessar standard plant  
 NT3 underground nuclear stations  
 NT2 ocean thermal power plants  
 NT2 refuse-fueled power plants  
 NT2 solar thermal power plants  
 NT3 distributed collector power plants  
 NT3 tower focus power plants  
 NT4 barstow solar pilot plant  
 NT2 thermonuclear power plants  
 NT2 wood-fuel power plants  
 NT1 tidal power plants  
 NT2 kislogubsk power plant  
 NT2 passamaquoddy power plant  
 NT2 rance power plant  
 NT1 wind power plants  
 NT2 efd wind generators  
 RT combined cycles  
 RT electric power  
 RT off-peak power  
 RT on-site power generation  
 RT outages  
 RT power generation  
 RT power substations  
 RT power systems

**power-plutonium production reactor richland**

INIS: 1993-11-09; ETDE: 2002-04-26  
 USE n-reactor

**POWER POOLING**

INIS: 1999-07-07; ETDE: 1982-02-23  
 Coordination among electric utilities through formal agreements to share the planning and operation of power generation and transmission facilities.  
 RT electric utilities  
 RT interconnected power systems  
 RT power generation  
 RT power transmission

**power pools**

INIS: 2000-04-12; ETDE: 1980-03-04  
 USE interconnected power systems

**POWER POTENTIAL**

2000-04-12  
 RT electric power

**power production**

ETDE: 2002-04-26  
 USE power generation

**POWER RANGE**

INIS: 1988-04-15; ETDE: 1989-08-10  
 NT1 exawatt power range  
 NT2 power range 01-10 ew  
 NT2 power range 10-100 ew  
 NT2 power range 100-1000 ew  
 NT1 gigawatt power range  
 NT2 power range 01-10 gw  
 NT2 power range 10-100 gw  
 NT2 power range 100-1000 gw  
 NT1 kilowatt power range  
 NT2 power range 01-10 kw  
 NT2 power range 10-100 kw  
 NT2 power range 100-1000 kw  
 NT1 megawatt power range  
 NT2 power range 01-10 mw  
 NT2 power range 10-100 mw  
 NT2 power range 100-1000 mw  
 NT1 milliwatt power range  
 NT2 power range 01-10 milli w  
 NT2 power range 10-100 milli w  
 NT2 power range 100-1000 milli w  
 NT1 petawatt power range  
 NT2 power range 01-10 pw  
 NT2 power range 10-100 pw  
 NT2 power range 100-1000 pw  
 NT1 terawatt power range  
 NT2 power range 01-10 tw  
 NT2 power range 10-100 tw  
 NT2 power range 100-1000 tw  
 NT1 watt power range  
 NT2 power range 01-10 w  
 NT2 power range 10-100 w  
 NT2 power range 100-1000 w  
 RT power

**POWER RANGE 01-10 EW**

INIS: 2003-08-15; ETDE: 2002-09-17  
 \*BT1 exawatt power range

**POWER RANGE 01-10 GW**

1988-04-15  
 (Prior to November 1989, this descriptor was POWER RANGE 1-10 GW.)  
 \*BT1 gigawatt power range

**POWER RANGE 01-10 KW**

1988-04-15  
 (Prior to November 1989, this descriptor was POWER RANGE 1-10 KW.)  
 \*BT1 kilowatt power range

**POWER RANGE 01-10 MILLI W**

2003-08-18  
 \*BT1 milliwatt power range

**POWER RANGE 01-10 MW**

1988-04-15  
 (Prior to November 1989, this descriptor was POWER RANGE 1-10 MW.)  
 \*BT1 megawatt power range

**POWER RANGE 01-10 PW**

INIS: 2003-08-15; ETDE: 2002-09-17  
 \*BT1 petawatt power range

**POWER RANGE 01-10 TW**

INIS: 2000-04-12; ETDE: 1982-05-24  
 (Prior to November 1989, this descriptor was POWER RANGE 1-10 TW.)  
 \*BT1 terawatt power range

**POWER RANGE 01-10 W**

1988-04-15  
 (Prior to November 1989, this descriptor was POWER RANGE 1-10 W.)  
 \*BT1 watt power range

**POWER RANGE 10-100 EW**

INIS: 2003-08-15; ETDE: 2002-09-17  
 \*BT1 exawatt power range

**POWER RANGE 10-100 GW**

INIS: 1988-04-15; ETDE: 1975-09-11  
 \*BT1 gigawatt power range

**POWER RANGE 10-100 KW**

1988-04-15  
 \*BT1 kilowatt power range

**POWER RANGE 10-100 MILLI W**

2003-08-18  
 \*BT1 milliwatt power range

**POWER RANGE 10-100 MW**

1988-04-15  
 \*BT1 megawatt power range

**POWER RANGE 10-100 PW**

INIS: 2003-08-15; ETDE: 2002-09-17  
 \*BT1 petawatt power range

**POWER RANGE 10-100 TW**

INIS: 2003-08-15; ETDE: 2002-09-17  
 \*BT1 terawatt power range

**POWER RANGE 10-100 W**

1988-04-15  
 \*BT1 watt power range

**POWER RANGE 100-1000 EW**

INIS: 2003-08-15; ETDE: 2002-09-17  
 \*BT1 exawatt power range

**POWER RANGE 100-1000 GW**

INIS: 1988-04-15; ETDE: 1975-09-11  
 \*BT1 gigawatt power range

**POWER RANGE 100-1000 KW**

1988-04-15  
 \*BT1 kilowatt power range

**POWER RANGE 100-1000 MILLI W**

2003-08-18  
 \*BT1 milliwatt power range

**POWER RANGE 100-1000 MW**

1988-04-15  
 \*BT1 megawatt power range

**POWER RANGE 100-1000 PW**

INIS: 2003-08-15; ETDE: 2002-09-17  
 \*BT1 petawatt power range

**POWER RANGE 100-1000 TW**

INIS: 2003-08-15; ETDE: 2002-09-17  
 \*BT1 terawatt power range

**POWER RANGE 100-1000 W**

1988-04-15  
 \*BT1 watt power range

**power range milli w**

2000-04-12

USE milliwatt power range

**power reactor and nuclear fuel development corporation**

1993-11-09

*The Power Reactor and Nuclear Fuel**Development Corporation (PNC) was**reorganized and renamed as the Japan**Nuclear Cycle Development Institute (JNC) in**October 1998.*

USE pnc

**POWER REACTORS**

1996-02-09

BT1 reactors

NT1 agesta reactor

NT1 aipfr reactor

NT1 ao-phai-1 reactor

NT1 aps reactor

NT1 arbus reactor

NT1 avr reactor

NT1 beloyarsk-1 reactor

NT1 beloyarsk-2 reactor

NT1 beloyarsk-3 reactor

NT1 beloyarsk-4 reactor

NT1 bilibin reactor

NT1 bn-1600 reactor

NT1 bn-350 reactor

NT1 bn-800 reactor

NT1 bohunice a-1 reactor

NT1 bohunice a-2 reactor

NT1 bor-60 reactor

NT1 borax-3 reactor

NT1 borax-4 reactor

NT1 borax-5 reactor

NT1 bugey-1 reactor

NT1 bwr type reactors

NT2 allens creek-1 reactor

NT2 allens creek-2 reactor

NT2 bailly-1 reactor

NT2 barsebaeck-1 reactor

NT2 barsebaeck-2 reactor

NT2 barton-1 reactor

NT2 barton-2 reactor

NT2 barton-3 reactor

NT2 barton-4 reactor

NT2 bell reactor

NT2 big rock point reactor

NT2 black fox-1 reactor

NT2 black fox-2 reactor

NT2 bolsa chica-1 reactor

NT2 bolsa chica-2 reactor

NT2 bonus reactor

NT2 browns ferry-1 reactor

NT2 browns ferry-2 reactor

NT2 browns ferry-3 reactor

NT2 brunsbuettel reactor

NT2 brunswick-1 reactor

NT2 brunswick-2 reactor

NT2 chinshan-1 reactor

NT2 chinshan-2 reactor

NT2 clinton-1 reactor

NT2 clinton-2 reactor

NT2 cofrentes reactor

NT2 cooper reactor

NT2 dodewaard reactor

NT2 douglas point-1 reactor

NT2 douglas point-2 reactor

NT2 dresden-1 reactor

NT2 dresden-2 reactor

NT2 dresden-3 reactor

NT2 duane arnold-1 reactor

NT2 ebwr reactor

NT2 enel-4 reactor

NT2 enrico fermi-2 reactor

NT2 err reactor

NT2 fitzpatrick reactor

NT2 forsmark-1 reactor

NT2 forsmark-2 reactor

NT2 forsmark-3 reactor

NT2 fukushima-1 reactor

NT2 fukushima-2 reactor

NT2 fukushima-3 reactor

NT2 fukushima-4 reactor

NT2 fukushima-5 reactor

NT2 fukushima-6 reactor

NT2 fukushima-ii-1 reactor

NT2 fukushima-ii-2 reactor

NT2 fukushima-ii-3 reactor

NT2 fukushima-ii-4 reactor

NT2 garigliano reactor

NT2 garona reactor

NT2 ge standard reactor

NT2 graben-1 reactor

NT2 graben-2 reactor

NT2 grand gulf-1 reactor

NT2 grand gulf-2 reactor

NT2 gundremmingen-2 reactor

NT2 gundremmingen-3 reactor

NT2 hamaoka-1 reactor

NT2 hamaoka-2 reactor

NT2 hamaoka-3 reactor

NT2 hamaoka-4 reactor

NT2 hamaoka-5 reactor

NT2 hartsville-1 reactor

NT2 hartsville-2 reactor

NT2 hartsville-3 reactor

NT2 hartsville-4 reactor

NT2 hatch-1 reactor

NT2 hatch-2 reactor

NT2 hdr reactor

NT2 hope creek-1 reactor

NT3 newbold island-1 reactor

NT2 hope creek-2 reactor

NT3 newbold island-2 reactor

NT2 humboldt bay reactor

NT2 isar reactor

NT2 jpdr-2 reactor

NT2 jpdr reactor

NT2 kaiseraugst reactor

NT2 kashiwazaki-kariwa-1 reactor

NT2 kashiwazaki-kariwa-2 reactor

NT2 kashiwazaki-kariwa-3 reactor

NT2 kashiwazaki-kariwa-4 reactor

NT2 kashiwazaki-kariwa-5 reactor

NT2 kashiwazaki-kariwa-6 reactor

NT2 kashiwazaki-kariwa-7 reactor

NT2 kruemmel reactor

NT2 kuosheng-1 reactor

NT2 kuosheng-2 reactor

NT2 la salle county-1 reactor

NT2 la salle county-2 reactor

NT2 lacbwr reactor

NT2 laguna verde-1 reactor

NT2 laguna verde-2 reactor

NT2 leibstadt reactor

NT2 limerick-1 reactor

NT2 limerick-2 reactor

NT2 lingen reactor

NT2 mendocino-1 reactor

NT2 mendocino-2 reactor

NT2 millstone-1 reactor

NT2 montague-1 reactor

NT2 montague-2 reactor

NT2 montalto di castro-1 reactor

NT2 montalto di castro-2 reactor

NT2 monticello reactor

NT2 muehleberg reactor

NT2 nine mile point-1 reactor

NT2 nine mile point-2 reactor

NT2 okg-1 reactor

NT2 okg-2 reactor

NT2 okg-3 reactor

NT2 olkiluoto-1 reactor

NT2 olkiluoto-2 reactor

NT2 onagawa-1 reactor

NT2 onagawa-2 reactor

NT2 onagawa-3 reactor

NT2 oyster creek-1 reactor

NT2 pathfinder reactor

NT2 peach bottom-2 reactor

NT2 peach bottom-3 reactor

NT2 perry-1 reactor

NT2 perry-2 reactor

NT2 philippsburg-1 reactor

NT2 phipps bend-1 reactor

NT2 phipps bend-2 reactor

NT2 pilgrim-1 reactor

NT2 quad cities-1 reactor

NT2 quad cities-2 reactor

NT2 ringhals-1 reactor

NT2 river bend-1 reactor

NT2 river bend-2 reactor

NT2 rwe-bayernwerk reactor

NT2 shika-1 reactor

NT2 shimane-1 reactor

NT2 shimane-2 reactor

NT2 shoreham reactor

NT2 skagit-1 reactor

NT2 skagit-2 reactor

NT2 sl-1 reactor

NT2 susquehanna-1 reactor

NT2 susquehanna-2 reactor

NT2 tarapur-1 reactor

NT2 tarapur-2 reactor

NT2 tokai-2 reactor

NT2 tsuruga reactor

NT2 tullnerfeld reactor

NT2 vak reactor

NT2 vbwr reactor

NT2 vermont yankee reactor

NT2 verplanck-1 reactor

NT2 verplanck-2 reactor

NT2 vk-50 reactor

NT2 wnp-2 reactor

NT2 wurgassen reactor

NT2 zimmer-1 reactor

NT2 zimmer-2 reactor

NT1 cdf reactor

NT1 chernobylsk-1 reactor

NT1 chernobylsk-2 reactor

NT1 chernobylsk-3 reactor

NT1 chernobylsk-4 reactor

NT1 chinon-1 reactor

NT1 chinon-2 reactor

NT1 chinon-3 reactor

NT1 clinch river breeder reactor

NT1 connah quay-b reactor

NT1 dfr reactor

NT1 dragon reactor

NT1 dungeness-b reactor

NT1 ebwr reactor

NT1 ebr-1 reactor

NT1 ebr-2 reactor

NT1 egcr reactor

NT1 enrico fermi-1 reactor

NT1 epec reactor

NT1 escom reactor

NT1 evsr reactor

NT1 fessenheim-2 reactor

NT1 fulton-1 reactor

NT1 fulton-2 reactor

NT1 ga standard reactor

NT1 gcre reactor

NT1 ginna-2 reactor

NT1 hartlepool reactor

NT1 hbwr reactor

NT1 heysham-a reactor

NT1 heysham-b reactor

NT1 hinkley point-b reactor

NT1 hnpf reactor

NT1 hokuriku-1 reactor

NT1 hre-2 reactor

NT1 hunterston-b reactor

NT1 ignalina-1 reactor

NT1	ignalina-2 reactor	NT3	kakrapar-1 reactor	NT2	arkansas-1 reactor
NT1	jervis bay reactor	NT3	kakrapar-2 reactor	NT2	arkansas-2 reactor
NT1	joyo reactor	NT3	kanupp reactor	NT2	asco-1 reactor
NT1	kaiga-3 reactor	NT3	npd reactor	NT2	asco-2 reactor
NT1	kaiga-4 reactor	NT3	pickering-1 reactor	NT2	atlantic-1 reactor
NT1	knk-2 reactor	NT3	pickering-2 reactor	NT2	atlantic-2 reactor
NT1	knk reactor	NT3	pickering-3 reactor	NT2	basf-1 reactor
NT1	kursk-1 reactor	NT3	pickering-4 reactor	NT2	basf-2 reactor
NT1	kursk-2 reactor	NT3	pickering-5 reactor	NT2	beaver valley-1 reactor
NT1	kursk-3 reactor	NT3	pickering-6 reactor	NT2	beaver valley-2 reactor
NT1	kursk-4 reactor	NT3	pickering-7 reactor	NT2	bellefonte-1 reactor
NT1	lampre-1 reactor	NT3	pickering-8 reactor	NT2	bellefonte-2 reactor
NT1	leningrad-1 reactor	NT3	point lepreau-1 reactor	NT2	belleville sur loire-1 reactor
NT1	leningrad-2 reactor	NT3	point lepreau-2 reactor	NT2	belleville sur loire-2 reactor
NT1	leningrad-3 reactor	NT3	qinshan-3-1 reactor	NT2	beznau-1 reactor
NT1	leningrad-4 reactor	NT3	qinshan-3-2 reactor	NT2	beznau-2 reactor
NT1	magnox type reactors	NT3	rajasthan-1 reactor	NT2	biblis-1 reactor
NT2	berkeley reactor	NT3	rajasthan-2 reactor	NT2	biblis-2 reactor
NT2	bradwell reactor	NT3	rajasthan-3 reactor	NT2	biblis-3 reactor
NT2	calder hall a-1 reactor	NT3	rajasthan-4 reactor	NT2	biblis-4 reactor
NT2	calder hall a-2 reactor	NT3	wolsung-1 reactor	NT2	blayais-1 reactor
NT2	calder hall b-3 reactor	NT3	wolsung-2 reactor	NT2	blue hills-1 reactor
NT2	calder hall b-4 reactor	NT3	wolsung-3 reactor	NT2	blue hills-2 reactor
NT2	chapelcross-1 reactor	NT3	wolsung-4 reactor	NT2	borssele reactor
NT2	chapelcross-2 reactor	NT2	cirene reactor	NT2	br-3 reactor
NT2	chapelcross-3 reactor	NT2	cvtr reactor	NT2	braidwood-1 reactor
NT2	chapelcross-4 reactor	NT2	el-4 reactor	NT2	braidwood-2 reactor
NT2	dungeness-a reactor	NT2	jatr reactor	NT2	brokdorf reactor
NT2	hinkley point-a reactor	NT2	kalpakkam-1 reactor	NT2	bugey-2 reactor
NT2	hunterston-a reactor	NT2	kalpakkam-2 reactor	NT2	bugey-3 reactor
NT2	latina reactor	NT2	lucens reactor	NT2	bugey-4 reactor
NT2	oldbury-a reactor	NT2	niederaichbach reactor	NT2	bugey-5 reactor
NT2	sizewell-a reactor	NT2	prtr reactor	NT2	bw standard reactor
NT2	tokai-mura reactor	NT2	sghwr reactor	NT2	byron-1 reactor
NT2	trawsfynydd reactor	NT1	propulsion reactors	NT2	byron-2 reactor
NT2	wylfa reactor	NT2	aircraft propulsion reactors	NT2	calhoun-1 reactor
NT1	marviken reactor	NT3	xma-1 reactor	NT2	calhoun-2 reactor
NT1	ml-1 reactor	NT2	ship propulsion reactors	NT2	callaway-1 reactor
NT1	monju reactor	NT3	efdr-50 reactor	NT2	callaway-2 reactor
NT1	msre reactor	NT3	lenin reactor	NT2	calvert cliffs-1 reactor
NT1	mzfr reactor	NT3	leonid brezhnev reactor	NT2	calvert cliffs-2 reactor
NT1	n-reactor	NT3	mutsu reactor	NT2	catawba-1 reactor
NT1	narora-1 reactor	NT3	otto hahn reactor	NT2	catawba-2 reactor
NT1	narora-2 reactor	NT3	savannah reactor	NT2	cattenom-1 reactor
NT1	okg-4 reactor	NT3	sibir reactor	NT2	cattenom-2 reactor
NT1	oldbury-b reactor	NT2	space propulsion reactors	NT2	cattenom-3 reactor
NT1	package reactors	NT3	kiwi reactors	NT2	cattenom-4 reactor
NT1	peach bottom-1 reactor	NT4	kiwi-tnt reactor	NT2	ce standard reactor
NT1	pec brasimone reactor	NT3	nerva reactor	NT2	cherokee-1 reactor
NT1	perryman-1 reactor	NT3	nrx-a1 reactor	NT2	cherokee-2 reactor
NT1	perryman-2 reactor	NT3	nrx-a2 reactor	NT2	cherokee-3 reactor
NT1	pfr reactor	NT3	nrx-a3 reactor	NT2	chinon-b1 reactor
NT1	phenix reactor	NT3	nrx-a4-est reactor	NT2	civaux-1 reactor
NT1	plbr reactor	NT3	nrx-a5 reactor	NT2	civaux-2 reactor
NT1	pnpf reactor	NT3	nrx-a6 reactor	NT2	comanche peak-1 reactor
NT1	pressure tube reactors	NT3	nrx-a7 reactor	NT2	comanche peak-2 reactor
NT2	atucha-2 reactor	NT3	pewee-1 reactor	NT2	connecticut yankee reactor
NT2	atucha reactor	NT3	pewee-2 reactor	NT2	cook-1 reactor
NT2	candu type reactors	NT3	pewee-3 reactor	NT2	cook-2 reactor
NT3	bruce-1 reactor	NT3	pewee-4 reactor	NT2	cruas-2 reactor
NT3	bruce-2 reactor	NT3	phoebus-1a reactor	NT2	cruas-3 reactor
NT3	bruce-3 reactor	NT3	phoebus-1b reactor	NT2	cruas-4 reactor
NT3	bruce-4 reactor	NT3	phoebus-2a reactor	NT2	crystal river-3 reactor
NT3	bruce-5 reactor	NT3	rover reactors	NT2	crystal river-4 reactor
NT3	bruce-6 reactor	NT3	twmr reactor	NT2	dampierre-1 reactor
NT3	bruce-7 reactor	NT3	xe-2 reactor	NT2	dampierre-2 reactor
NT3	bruce-8 reactor	NT2	tory-2a reactor	NT2	dampierre-3 reactor
NT3	cernavoda-1 reactor	NT2	tory-2c reactor	NT2	dampierre-4 reactor
NT3	cordoba reactor	NT2	xe-prime reactor	NT2	davis besse-1 reactor
NT3	darlington-1 reactor	NT1	pwr type reactors	NT2	davis besse-2 reactor
NT3	darlington-2 reactor	NT2	aguirre reactor	NT2	davis besse-3 reactor
NT3	darlington-3 reactor	NT2	almaraz-1 reactor	NT2	daya bay-1 reactor
NT3	darlington-4 reactor	NT2	almaraz-2 reactor	NT2	daya bay-2 reactor
NT3	douglas point ontario reactor	NT2	angra-1 reactor	NT2	diablo canyon-1 reactor
NT3	embalse reactor	NT2	angra-2 reactor	NT2	diablo canyon-2 reactor
NT3	gentilly-2 reactor	NT2	angra-3 reactor	NT2	doel-1 reactor
NT3	gentilly reactor	NT2	ardennes b-1 reactor	NT2	doel-2 reactor
NT3	kaiga-1 reactor	NT2	ardennes b-2 reactor	NT2	doel-3 reactor
NT3	kaiga-2 reactor	NT2	ardennes reactor	NT2	doel-4 reactor

NT2	efdr-50 reactor	NT2	millstone-2 reactor	NT2	saxton reactor
NT2	emsland reactor	NT2	millstone-3 reactor	NT2	seabrook-1 reactor
NT2	erie-1 reactor	NT2	muelheim-kaerlich reactor	NT2	seabrook-2 reactor
NT2	erie-2 reactor	NT2	mutsu reactor	NT2	selni reactor
NT2	farley-1 reactor	NT2	neckar-1 reactor	NT2	sendai-1 reactor
NT2	farley-2 reactor	NT2	neckar-2 reactor	NT2	sendai-2 reactor
NT2	fessenheim-1 reactor	NT2	nep-1 reactor	NT2	sequoyah-1 reactor
NT2	flamanville-1 reactor	NT2	nep-2 reactor	NT2	sequoyah-2 reactor
NT2	flamanville-2 reactor	NT2	neupotz-1 reactor	NT2	shippingport reactor
NT2	forked river-1 reactor	NT2	neupotz-2 reactor	NT2	sizewell-b reactor
NT2	genkai-1 reactor	NT2	nogent sur seine-1 reactor	NT2	sm-1 reactor
NT2	genkai-2 reactor	NT2	nogent sur seine-2 reactor	NT2	sm-la reactor
NT2	genkai-3 reactor	NT2	north anna-1 reactor	NT2	south texas project-1 reactor
NT2	genkai-4 reactor	NT2	north anna-2 reactor	NT2	south texas project-2 reactor
NT2	ginna-1 reactor	NT2	north anna-3 reactor	NT2	stade reactor
NT2	goesgen reactor	NT2	north anna-4 reactor	NT2	sterling-1 reactor
NT2	golfech-1 reactor	NT2	north coast-1 reactor	NT2	sterling-2 reactor
NT2	golfech-2 reactor	NT2	obrigheim reactor	NT2	summer-1 reactor
NT2	grafenrheinfeld reactor	NT2	oconee-1 reactor	NT2	sundesert-1 reactor
NT2	gravelines-1 reactor	NT2	oconee-2 reactor	NT2	sundesert-2 reactor
NT2	gravelines-2 reactor	NT2	oconee-3 reactor	NT2	surry-1 reactor
NT2	gravelines-3 reactor	NT2	oi-1 reactor	NT2	surry-2 reactor
NT2	gravelines-4 reactor	NT2	oi-2 reactor	NT2	surry-3 reactor
NT2	gravelines-5 reactor	NT2	oi-3 reactor	NT2	surry-4 reactor
NT2	gravelines-6 reactor	NT2	oi-4 reactor	NT2	takahama-1 reactor
NT2	greene county reactor	NT2	oktemberyan-2 reactor	NT2	takahama-2 reactor
NT2	greenwood-2 reactor	NT2	olkiluoto-3 reactor	NT2	takahama-3 reactor
NT2	greenwood-3 reactor	NT2	otto hahn reactor	NT2	takahama-4 reactor
NT2	grohnde reactor	NT2	palisades-1 reactor	NT2	three mile island-1 reactor
NT2	hamm-uentrop reactor	NT2	palo verde-1 reactor	NT2	three mile island-2 reactor
NT2	harris-1 reactor	NT2	palo verde-2 reactor	NT2	tihange-2 reactor
NT2	harris-2 reactor	NT2	palo verde-3 reactor	NT2	tihange-3 reactor
NT2	harris-3 reactor	NT2	palo verde-4 reactor	NT2	tihange reactor
NT2	harris-4 reactor	NT2	palo verde-5 reactor	NT2	tomari-1 reactor
NT2	haven-1 reactor	NT2	paluel-1 reactor	NT2	tomari-2 reactor
NT3	koshkonong-1 reactor	NT2	paluel-2 reactor	NT2	tricastin-1 reactor
NT2	haven-2 reactor	NT2	paluel-3 reactor	NT2	tricastin-4 reactor
NT3	koshkonong-2 reactor	NT2	paluel-4 reactor	NT2	trillo-1 reactor
NT2	ikata-2 reactor	NT2	pat reactor	NT2	trojan reactor
NT2	ikata-3 reactor	NT2	pebble springs-1 reactor	NT2	tsuruga-2 reactor
NT2	ikata reactor	NT2	pebble springs-2 reactor	NT2	turkey point-3 reactor
NT2	indian point-1 reactor	NT2	penly-1 reactor	NT2	turkey point-4 reactor
NT2	indian point-2 reactor	NT2	perkins-1 reactor	NT2	tva-1 reactor
NT2	indian point-3 reactor	NT2	perkins-2 reactor	NT2	tva-2 reactor
NT2	iran-1 reactor	NT2	perkins-3 reactor	NT2	tyrone-1 reactor
NT2	iran-2 reactor	NT2	philippsburg-2 reactor	NT2	tyrone-2 reactor
NT2	isar-2 reactor	NT2	pilgrim-2 reactor	NT2	ulchin-1 reactor
NT2	jamesport-1 reactor	NT2	pilgrim-3 reactor	NT2	ulchin-2 reactor
NT2	jamesport-2 reactor	NT2	pm-2a reactor	NT2	ulchin-3 reactor
NT2	kewaunee reactor	NT2	pm-3a reactor	NT2	ulchin-4 reactor
NT2	koeberg-1 reactor	NT2	pnp-1 reactor	NT2	unterweser reactor
NT2	koeberg-2 reactor	NT2	point beach-1 reactor	NT2	vahnum-1 reactor
NT2	kori-1 reactor	NT2	point beach-2 reactor	NT2	vahnum-2 reactor
NT2	kori-2 reactor	NT2	prairie island-1 reactor	NT2	vandellos-2 reactor
NT2	kori-3 reactor	NT2	prairie island-2 reactor	NT2	vogtle-1 reactor
NT2	kori-4 reactor	NT2	qinshan-1 reactor	NT2	vogtle-2 reactor
NT2	krsko reactor	NT2	qinshan-2-1 reactor	NT2	vogtle-3 reactor
NT2	lemoniz-1 reactor	NT2	qinshan-2-2 reactor	NT2	vogtle-4 reactor
NT2	lemoniz-2 reactor	NT2	quanicassee-1 reactor	NT2	waterford-3 reactor
NT2	lenin reactor	NT2	quanicassee-2 reactor	NT2	waterford-4 reactor
NT2	leonid brezhnev reactor	NT2	rancho seco-1 reactor	NT2	watts bar-1 reactor
NT2	lingao-1 reactor	NT2	remerschen reactor	NT2	watts bar-2 reactor
NT2	lingao-2 reactor	NT2	rheinsberg akw1 reactor	NT2	westinghouse standard reactor
NT2	loft reactor	NT2	ringhals-2 reactor	NT2	wnp-1 reactor
NT2	lucie-1 reactor	NT2	ringhals-3 reactor	NT2	wnp-3 reactor
NT2	lucie-2 reactor	NT2	ringhals-4 reactor	NT2	wnp-4 reactor
NT2	maanshan-1 reactor	NT2	robinson-2 reactor	NT2	wnp-5 reactor
NT2	maine yankee reactor	NT2	rooppur reactor	NT2	wolf creek-1 reactor
NT2	malibu-1 reactor	NT2	rowe yankee reactor	NT2	wup-3 reactor
NT2	marble hill-1 reactor	NT2	s1c prototype reactor	NT2	wup-4 reactor
NT2	marble hill-2 reactor	NT2	saint alban-1 reactor	NT2	wup-5 reactor
NT2	mc guire-1 reactor	NT2	saint alban-2 reactor	NT2	wup-6 reactor
NT2	mc guire-2 reactor	NT2	saint laurent-b1 reactor	NT2	wwer type reactors
NT2	mh-1a reactor	NT2	salem-1 reactor	NT3	armenian-1 reactor
NT2	midland-1 reactor	NT2	salem-2 reactor	NT3	armenian-2 reactor
NT2	midland-2 reactor	NT2	san onofre-1 reactor	NT3	balakovo-1 reactor
NT2	mihama-1 reactor	NT2	san onofre-2 reactor	NT3	balakovo-2 reactor
NT2	mihama-2 reactor	NT2	san onofre-3 reactor	NT3	balakovo-3 reactor
NT2	mihama-3 reactor	NT2	savannah reactor	NT3	balakovo-4 reactor

**NT3** blahutovice-1 reactor  
**NT3** bohunice v-1 reactor  
**NT3** bohunice v-2 reactor  
**NT3** dukovany-1 reactor  
**NT3** dukovany-2 reactor  
**NT3** dukovany-3 reactor  
**NT3** dukovany-4 reactor  
**NT3** greifswald-1 reactor  
**NT3** greifswald-2 reactor  
**NT3** greifswald-3 reactor  
**NT3** greifswald-4 reactor  
**NT3** greifswald-5 reactor  
**NT3** greifswald-6 reactor  
**NT3** juragua-1 reactor  
**NT3** kalinin-1 reactor  
**NT3** kalinin-3 reactor  
**NT3** kecerovce-1 reactor  
**NT3** khmel'nitskij-1 reactor  
**NT3** kola-1 reactor  
**NT3** kola-2 reactor  
**NT3** kola-3 reactor  
**NT3** kola-4 reactor  
**NT3** kozloduy-1 reactor  
**NT3** kozloduy-2 reactor  
**NT3** kozloduy-3 reactor  
**NT3** kozloduy-4 reactor  
**NT3** kozloduy-5 reactor  
**NT3** kozloduy-6 reactor  
**NT3** kudankulam-1 reactor  
**NT3** kudankulam-2 reactor  
**NT3** loviisa-1 reactor  
**NT3** loviisa-2 reactor  
**NT3** mochovce-1 reactor  
**NT3** mochovce-2 reactor  
**NT3** novovoronezh-1 reactor  
**NT3** novovoronezh-2 reactor  
**NT3** novovoronezh-3 reactor  
**NT3** novovoronezh-4 reactor  
**NT3** novovoronezh-5 reactor  
**NT3** paks-1 reactor  
**NT3** paks-2 reactor  
**NT3** paks-3 reactor  
**NT3** paks-4 reactor  
**NT3** rovno-1 reactor  
**NT3** rovno-2 reactor  
**NT3** rovno-3 reactor  
**NT3** rovno-4 reactor  
**NT3** rovno-5 reactor  
**NT3** south ukrainian-1 reactor  
**NT3** south ukrainian-2 reactor  
**NT3** south ukrainian-3 reactor  
**NT3** stendal-1 reactor  
**NT3** tatarian reactor  
**NT3** temelin-1 reactor  
**NT3** temelin-2 reactor  
**NT3** tianwan-1 reactor  
**NT3** zaporozhe-1 reactor  
**NT3** zaporozhe-2 reactor  
**NT3** zaporozhe-3 reactor  
**NT3** zaporozhe-4 reactor  
**NT3** zaporozhe-5 reactor  
**NT3** zaporozhe-6 reactor  
**NT2** wyhl-1 reactor  
**NT2** wyhl-2 reactor  
**NT2** yellow creek-1 reactor  
**NT2** yellow creek-2 reactor  
**NT2** yonggwang-1 reactor  
**NT2** yonggwang-2 reactor  
**NT2** yonggwang-3 reactor  
**NT2** yonggwang-4 reactor  
**NT2** zion-1 reactor  
**NT2** zion-2 reactor  
**NT2** zorita-1 reactor  
**NT1** rajasthan-5 reactor  
**NT1** rajasthan-6 reactor  
**NT1** rancho seco-2 reactor  
**NT1** saint laurent-1 reactor  
**NT1** saint laurent-2 reactor  
**NT1** schmehausen-2 reactor

**NT1** sefor reactor  
**NT1** smolensk-1 reactor  
**NT1** smolensk-2 reactor  
**NT1** smolensk-3 reactor  
**NT1** snr-2 reactor  
**NT1** snr reactor  
**NT1** space power reactors  
**NT2** snap reactors  
**NT3** snap 10 reactor  
**NT4** s10fs-1 reactor  
**NT4** s10fs-3 reactor  
**NT4** s10fs-4 reactor  
**NT3** snap 2 reactor  
**NT4** s2ds reactor  
**NT3** snap 50 reactor  
**NT3** snap 8 reactor  
**NT4** s8dr reactor  
**NT4** s8er reactor  
**NT2** space propulsion reactors  
**NT3** kiwi reactors  
**NT4** kiwi-tnt reactor  
**NT3** nerva reactor  
**NT3** nrx-a1 reactor  
**NT3** nrx-a2 reactor  
**NT3** nrx-a3 reactor  
**NT3** nrx-a4-est reactor  
**NT3** nrx-a5 reactor  
**NT3** nrx-a6 reactor  
**NT3** nrx-a7 reactor  
**NT3** pewee-1 reactor  
**NT3** pewee-2 reactor  
**NT3** pewee-3 reactor  
**NT3** pewee-4 reactor  
**NT3** phoebus-1a reactor  
**NT3** phoebus-1b reactor  
**NT3** phoebus-2a reactor  
**NT3** rover reactors  
**NT3** twmr reactor  
**NT3** xe-2 reactor  
**NT1** sre reactor  
**NT1** summit-1 reactor  
**NT1** summit-2 reactor  
**NT1** tarapur-3 reactor  
**NT1** tarapur-4 reactor  
**NT1** thermionic reactors  
**NT1** thermoelectric reactors  
**NT1** thtr-300 reactor  
**NT1** topaz reactor  
**NT1** torness reactor  
**NT1** vandellos reactor  
**NT1** yg-400 reactor  
**NT1** vgr-50 reactor  
**NT1** vhtr reactor  
**NT1** vidal-1 reactor  
**NT1** vidal-2 reactor  
**NT1** vrain reactor  
**NT1** wagr reactor  
**RT** agr type reactors  
**RT** bhwr type reactors  
**RT** desalination reactors  
**RT** fbr type reactors  
**RT** gcr type reactors  
**RT** htgr type reactors  
**RT** hwgcr type reactors  
**RT** hwlwr type reactors  
**RT** lwgr type reactors  
**RT** lwor type reactors  
**RT** nuclear power plants  
**RT** omr type reactors  
**RT** phwr type reactors  
**RT** present worth method  
**RT** process heat reactors  
**RT** sgr type reactors  
**RT** szr type reactors  
**RT** underground nuclear stations

#### POWER RELAY SATELLITES

2000-04-12

BT1 satellites

RT power transmission

#### POWER SERIES

BT1 series expansion  
 RT mathematics

#### POWER SUBSTATIONS

INIS: 1992-10-06; ETDE: 1976-07-07

Term is used for an assembly of equipment in an electric power system for the transmission, transformation, or switching of electric energy.

UF electric power substations  
**NT1** gas-insulated substations  
 RT power distribution systems  
 RT power generation  
 RT power plants  
 RT power systems  
 RT power transmission  
 RT power transmission lines

#### POWER SUPPLIES

\*BT1 electronic equipment  
**NT1** marx generators  
**NT1** photovoltaic power supplies  
**NT1** radio equipment power supplies  
**NT1** spacecraft power supplies  
**NT1** uninterruptible power supplies  
 RT capacitors  
 RT dc to dc converters  
 RT direct energy converters  
 RT electric power  
 RT electrical equipment  
 RT gyrocons  
 RT inverters  
 RT klystrons  
 RT lasertrons  
 RT microwave power transmission  
 RT outages  
 RT power conditioning circuits  
 RT rf systems

#### POWER SYSTEMS

INIS: 1982-12-07; ETDE: 1976-02-19

Includes electric power networks with associated generating and transmission facilities.

UF electric power systems

BT1 energy systems  
**NT1** ac systems  
**NT2** ehv ac systems  
**NT2** hvac systems  
**NT2** uhv ac systems  
**NT1** brayton cycle power systems  
**NT1** dc systems  
**NT2** ehv dc systems  
**NT2** hvdc systems  
**NT2** uhv dc systems  
**NT1** interconnected power systems  
**NT1** rankine cycle power systems  
**NT1** solar-assisted power systems  
 RT dispersed storage and generation  
 RT electric power industry  
 RT electrical transients  
 RT gas-insulated transformers  
 RT laser power transmission  
 RT microwave power transmission  
 RT outages  
 RT power distribution systems  
 RT power factor  
 RT power generation  
 RT power plants  
 RT power substations  
 RT power transmission  
 RT power transmission lines  
 RT underground power transmission  
 RT var control systems

#### POWER TRANSMISSION

The act or process of transporting electrical energy in bulk from a source or sources of

supply to other principal parts of the system or to other utility systems.

SF energy transmission

SF energy transport

SF transmission (energy)

SF transport (energy)

NTI laser power transmission

NTI microwave power transmission

NTI overhead power transmission

NTI underground power transmission

RT electric power

RT gas-insulated cables

RT gas-insulated transformers

RT hybrid systems

RT interconnected power systems

RT oil-filled cables

RT outages

RT power distribution systems

RT power factor

RT power losses

RT power pooling

RT power relay satellites

RT power substations

RT power systems

RT power transmission lines

RT shunt reactors

RT var control systems

## POWER TRANSMISSION LINES

1997-06-17

UF line losses

UF transmission lines

RT current limiters

RT electric cables

RT electric power

RT gas-insulated cables

RT oil-filled cables

RT power substations

RT power systems

RT power transmission

RT rights-of-way

RT shunt reactors

## POWER TRANSMISSION TOWERS

INIS: 1993-03-26; ETDE: 1976-08-04

UF transmission towers

SF towers

BT1 mechanical structures

RT overhead power transmission

## POWERED SUPPORTS

INIS: 2000-04-12; ETDE: 1977-06-24

\*BT1 supports

NTI shield supports

## POYNTING THEOREM

UF poynting vector

RT flux density

RT maxwell equations

RT radiation flux

RT vectors

## poynting vector

USE poynting theorem

## pp chain

INIS: 1978-11-24; ETDE: 1980-07-23

USE hydrogen burning

## pp-factor

USE nicotinamide

## pr-10 aeg pruefreaktor

USE aeg-pr-10 reactor

## pr-6 device

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE magnetic mirrors

## pr-7 device

2000-04-12

(Prior to February 1996 this was a valid ETDE

descriptor; from March 1996 till March 1997

PR DEVICES was used for this concept.)

USE magnetic mirrors

## pr devices

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE magnetic mirrors

## PR SPRINGS DEPOSIT

INIS: 2000-04-12; ETDE: 1976-11-17

\*BT1 oil sand deposits

RT oil sands

RT utah

## PRAETORIAN PROJECT

INIS: 2000-04-12; ETDE: 1983-11-09

\*BT1 nuclear explosions

RT contained explosions

RT underground explosions

## prague wwr-s reactor

INIS: 1998-09-23; ETDE: 2002-03-27

USE lvr-15 reactor

## PRAIRIE DOGS

INIS: 2000-04-12; ETDE: 1977-12-22

\*BT1 rodents

## PRAIRIE ISLAND-1 REACTOR

Nuclear Management Co., LLC, Red Wing, Minnesota, USA.

UF red wing prairie island-1 reactor

\*BT1 pwr type reactors

## PRAIRIE ISLAND-2 REACTOR

Nuclear Management Co., LLC, Red Wing, Minnesota, USA.

UF red wing prairie island-2 reactor

\*BT1 pwr type reactors

## PRANDTL NUMBER

BT1 dimensionless numbers

RT boundary layers

RT diffusion

RT heat transfer

RT thermal diffusivity

RT thermodynamic properties

RT viscous flow

## PRASEODYMIUM

\*BT1 rare earths

## PRASEODYMIUM 121

INIS: 1992-09-23; ETDE: 1979-07-24

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

## PRASEODYMIUM 122

2007-04-20

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

## PRASEODYMIUM 123

2007-04-20

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

## PRASEODYMIUM 124

INIS: 1987-02-25; ETDE: 1987-05-01

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

## PRASEODYMIUM 125

2004-12-15

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

## PRASEODYMIUM 126

INIS: 1984-10-19; ETDE: 1984-11-06

\*BT1 beta-plus decay radioisotopes

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

## PRASEODYMIUM 127

1998-09-23

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

## PRASEODYMIUM 128

INIS: 1985-07-22; ETDE: 1985-08-08

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

## PRASEODYMIUM 129

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

## PRASEODYMIUM 130

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

## PRASEODYMIUM 131

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

## PRASEODYMIUM 132

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

## PRASEODYMIUM 133

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

## PRASEODYMIUM 134

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei



**PRASEODYMIUM 135**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 136**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 137**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 138**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 139**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 140**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 141**

- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**PRASEODYMIUM 141 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**PRASEODYMIUM 142**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 147**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 148**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 149**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 150**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PRASEODYMIUM 151**

- 1977-01-26*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes

**PRASEODYMIUM 152**

- INIS: 1984-06-21; ETDE: 1984-07-10*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes

**PRASEODYMIUM 153**

- INIS: 1987-08-27; ETDE: 1987-09-18*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes

**PRASEODYMIUM 154**

- 1988-10-10*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes

**PRASEODYMIUM 155**

- 2007-04-20*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei

**PRASEODYMIUM 156**

- 2007-04-20*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei

**PRASEODYMIUM 157**

- 2007-04-20*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei

**PRASEODYMIUM 158**

- 2007-04-20*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei

**PRASEODYMIUM 159**

- 2007-04-20*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 praseodymium isotopes
  - \*BT1 rare earth nuclei

**PRASEODYMIUM ADDITIONS**

*Alloys containing not more than 1% Pr are listed here.*  
\*BT1 rare earth additions  
*RT* praseodymium alloys

**PRASEODYMIUM ALLOYS**

*Alloys containing more than 1% Pr.*  
\*BT1 rare earth alloys  
**NT1** praseodymium base alloys  
*RT* praseodymium additions

**PRASEODYMIUM ARSENIDES**

*INIS: 1976-02-05; ETDE: 1975-10-28*  
\*BT1 arsenides  
\*BT1 praseodymium compounds

**PRASEODYMIUM BASE ALLOYS**

\*BT1 praseodymium alloys

**PRASEODYMIUM BORIDES**

\*BT1 borides  
\*BT1 praseodymium compounds

**PRASEODYMIUM BROMIDES**

\*BT1 bromides  
\*BT1 praseodymium compounds

**PRASEODYMIUM CARBIDES**

\*BT1 carbides  
\*BT1 praseodymium compounds

**PRASEODYMIUM CARBONATES**

\*BT1 carbonates  
\*BT1 praseodymium compounds

**PRASEODYMIUM CHLORIDES**

\*BT1 chlorides  
\*BT1 praseodymium compounds

**PRASEODYMIUM COMPLEXES**

\*BT1 rare earth complexes

**PRASEODYMIUM COMPOUNDS**

BT1 rare earth compounds  
**NT1** praseodymium arsenides  
**NT1** praseodymium borides  
**NT1** praseodymium bromides  
**NT1** praseodymium carbides  
**NT1** praseodymium carbonates  
**NT1** praseodymium chlorides  
**NT1** praseodymium fluorides

NT1 praseodymium hydrides  
 NT1 praseodymium hydroxides  
 NT1 praseodymium iodides  
 NT1 praseodymium nitrates  
 NT1 praseodymium nitrides  
 NT1 praseodymium oxides  
 NT1 praseodymium perchlorates  
 NT1 praseodymium phosphates  
 NT1 praseodymium phosphides  
 NT1 praseodymium selenides  
 NT1 praseodymium silicates  
 NT1 praseodymium silicides  
 NT1 praseodymium sulfates  
 NT1 praseodymium sulfides  
 NT1 praseodymium tellurides  
 NT1 praseodymium tungstates

**PRASEODYMIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 praseodymium compounds

**PRASEODYMIUM HYDRIDES**

\*BT1 hydrides  
 \*BT1 praseodymium compounds

**PRASEODYMIUM HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 praseodymium compounds

**PRASEODYMIUM IODIDES**

\*BT1 iodides  
 \*BT1 praseodymium compounds

**PRASEODYMIUM IONS**

\*BT1 ions

**PRASEODYMIUM ISOTOPES**

BT1 isotopes  
 NT1 praseodymium 121  
 NT1 praseodymium 122  
 NT1 praseodymium 123  
 NT1 praseodymium 124  
 NT1 praseodymium 125  
 NT1 praseodymium 126  
 NT1 praseodymium 127  
 NT1 praseodymium 128  
 NT1 praseodymium 129  
 NT1 praseodymium 130  
 NT1 praseodymium 131  
 NT1 praseodymium 132  
 NT1 praseodymium 133  
 NT1 praseodymium 134  
 NT1 praseodymium 135  
 NT1 praseodymium 136  
 NT1 praseodymium 137  
 NT1 praseodymium 138  
 NT1 praseodymium 139  
 NT1 praseodymium 140  
 NT1 praseodymium 141  
 NT1 praseodymium 142  
 NT1 praseodymium 143  
 NT1 praseodymium 144  
 NT1 praseodymium 145  
 NT1 praseodymium 146  
 NT1 praseodymium 147  
 NT1 praseodymium 148  
 NT1 praseodymium 149  
 NT1 praseodymium 150  
 NT1 praseodymium 151  
 NT1 praseodymium 152  
 NT1 praseodymium 153  
 NT1 praseodymium 154  
 NT1 praseodymium 155  
 NT1 praseodymium 156  
 NT1 praseodymium 157  
 NT1 praseodymium 158  
 NT1 praseodymium 159

**PRASEODYMIUM NITRATES**

\*BT1 nitrates  
 \*BT1 praseodymium compounds

**PRASEODYMIUM NITRIDES**

\*BT1 nitrides  
 \*BT1 praseodymium compounds

**PRASEODYMIUM OXIDES**

\*BT1 oxides  
 \*BT1 praseodymium compounds

**PRASEODYMIUM PERCHLORATES**

\*BT1 perchlorates  
 \*BT1 praseodymium compounds

**PRASEODYMIUM PHOSPHATES**

1975-10-23  
 \*BT1 phosphates  
 \*BT1 praseodymium compounds

**PRASEODYMIUM PHOSPHIDES**

INIS: 1977-07-05; ETDE: 1975-11-28  
 \*BT1 phosphides  
 \*BT1 praseodymium compounds

**PRASEODYMIUM SELENIDES**

\*BT1 praseodymium compounds  
 \*BT1 selenides

**PRASEODYMIUM SILICATES**

1988-10-10  
 \*BT1 praseodymium compounds  
 \*BT1 silicates

**PRASEODYMIUM SILICIDES**

INIS: 1975-10-29; ETDE: 1975-12-16  
 \*BT1 praseodymium compounds  
 \*BT1 silicides

**PRASEODYMIUM SULFATES**

\*BT1 praseodymium compounds  
 \*BT1 sulfates

**PRASEODYMIUM SULFIDES**

\*BT1 praseodymium compounds  
 \*BT1 sulfides

**PRASEODYMIUM TELLURIDES**

\*BT1 praseodymium compounds  
 \*BT1 tellurides

**PRASEODYMIUM TUNGSTATES**

INIS: 1991-09-16; ETDE: 1977-06-02  
 \*BT1 praseodymium compounds  
 \*BT1 tungstates

**PRAWNS**

INIS: 1977-04-07; ETDE: 1977-06-03  
 \*BT1 decapods  
 RT lobsters  
 RT seafood  
 RT shrimp

**PRCF REACTOR**

PNL, Richland, Washington, USA.  
 UF plutonium recycle critical facility  
 UF pnl-pref reactor  
 \*BT1 plutonium reactors  
 \*BT1 tank type reactors  
 \*BT1 zero power reactors

**pre (photoreactivating enzyme)**

INIS: 1984-04-04; ETDE: 2002-04-26  
 USE enzymes  
 USE photoreactivation

**PREAMPLIFIERS**

\*BT1 amplifiers

**PRECAMBRIAN ERA**

INIS: 1992-04-14; ETDE: 1977-10-19  
 BT1 geologic ages

**PRECESSION**

NT1 larmor precession  
 RT gyroscopes  
 RT migma devices

RT orbits  
 RT rotation

**precetron storage ring**

1996-07-08  
 (Until June 1996 this was a valid descriptor.)  
 USE storage rings

**PRECIPITATION**

In chemical processes only; see also  
 ATMOSPHERIC PRECIPITATIONS,  
 ELECTRON PRECIPITATION, PROTON  
 PRECIPITATION, and PRECIPITATION  
 HARDENING.

BT1 separation processes  
 NT1 coprecipitation  
 NT1 flocculation  
 RT agglomeration  
 RT crystallization  
 RT deposition  
 RT hydrometallurgy  
 RT salting-out agents  
 RT scaling  
 RT sedimentation  
 RT solubility  
 RT supersaturation  
 RT waste processing

**PRECIPITATION HARDENING**

BT1 hardening  
 RT age hardening

**PRECIPITATION SCAVENGING**

BT1 separation processes  
 RT washout

**precipitations (atmospheric)**

USE atmospheric precipitations

**PRECIPITINS**

BT1 antibodies

**precision**

INIS: 1975-12-09; ETDE: 2002-04-26  
 USE accuracy

**PRECOMPOUND-NUCLEUS  
 EMISSION**

Emission of a few high-energy nucleons  
 resulting from direct processes before  
 establishment of the statistical equilibrium of  
 the compound nucleus.

UF pre-equilibrium nuclear processes  
 BT1 nuclear reactions  
 RT deep inelastic heavy ion reactions  
 RT evaporation model  
 RT incomplete fusion reactions  
 RT quasi-fission

**PRECURSOR**

RT biosynthesis  
 RT earthquakes  
 RT metabolism  
 RT nucleic acids  
 RT rock bursts

**precursors (delayed neutron)**

INIS: 2000-04-12; ETDE: 1976-12-16  
 USE delayed neutron precursors

**precursors (delayed neutrons)**

USE delayed neutron precursors

**precursors (delayed proton)**

INIS: 2000-04-12; ETDE: 1976-12-16  
 USE delayed proton precursors

**precursors (delayed protons)**

INIS: 1976-10-29; ETDE: 2002-04-26  
 USE delayed proton precursors

**PREDATOR-PREY INTERACTIONS**

INIS: 1992-05-04; ETDE: 1979-03-28

- RT behavior
- RT ecology
- RT ecosystems
- RT food chains
- RT population dynamics
- RT symbiosis

**prediction**

- USE forecasting

**PREDICTION EQUATIONS**

- BT1 equations

**PREDISSOCIATION**

- BT1 dissociation

**PREDNISOLONE**

- \*BT1 glucocorticoids

**PREDNISONONE**

- \*BT1 glucocorticoids

**preequilibrium nuclear processes**

INIS: 2000-04-12; ETDE: 1976-11-01

- USE precompound-nucleus emission

**PREFABRICATED BUILDINGS**

INIS: 2000-04-12; ETDE: 1982-01-07

- UF manufactured buildings
- UF metal buildings
- BT1 buildings
- RT mobile homes

**preferred orientation**

- USE grain orientation

**PREFERRED SPECIES**

INIS: 1986-07-09; ETDE: 1976-04-19

Species particularly suited for revegetation of reclaimed land.

- BT1 plants
- RT gramineae
- RT land reclamation
- RT revegetation
- RT shrubs
- RT trees

**PREGNANCY**

- RT abortion
- RT embryos
- RT fetuses
- RT gynecology
- RT hpl
- RT life cycle
- RT parturition
- RT placenta
- RT prenatal exposure
- RT prenatal irradiation
- RT progesterone
- RT reproduction
- RT reproductive disorders
- RT uterus

**pregnanediol**

INIS: 1996-10-23; ETDE: 1980-11-25

(Until October 1996 this was a valid descriptor.)

- USE hydroxy compounds
- USE pregnanes

**PREGNANES**

1996-10-23

- UF pregnanediol
- UF pregnanetriol
- \*BT1 steroids
- NT1 corticosteroids
- NT2 glucocorticoids
- NT3 corticosterone
- NT3 cortisone
- NT3 dexamethasone

- NT3 hydrocortisone
- NT3 prednisolone
- NT3 prednisone
- NT2 mineralocorticoids
- NT3 aldosterone
- NT1 hydroxypregnenone
- NT1 progesterone

**pregnanetriol**

INIS: 1996-07-08; ETDE: 1980-11-25

(Until June 1996 this was a valid descriptor.)

- USE hydroxy compounds
- USE pregnanes

**pregnenolone**

- USE hydroxypregnenone

**preheating**

INIS: 2000-04-12; ETDE: 1979-06-06

- USE heat treatments

**PRENATAL EXPOSURE**

INIS: 1986-04-04; ETDE: 1980-05-06

For prenatal exposure to radiation use

**PRENATAL IRRADIATION.**

- NT1 prenatal irradiation
- RT biological effects
- RT biological stress
- RT fetuses
- RT pregnancy
- RT toxicity

**PRENATAL IRRADIATION**

- UF in utero irradiation
- BT1 irradiation
- BT1 prenatal exposure
- RT embryos
- RT fetuses
- RT perinatal irradiation
- RT pregnancy

**PRENFLO PROCESS**

INIS: 2000-04-12; ETDE: 1989-05-31

Pressurized entrained flow gasification process derived from Koppers-Totzek atmospheric pressure process.

- \*BT1 coal gasification

**PREONS**

INIS: 1984-07-20; ETDE: 1984-08-20

Postulated particles which are constituents of both quarks and leptons.

- \*BT1 postulated particles
- RT color model
- RT composite models
- RT leptons
- RT quarks

**preparation (chemical)**

- USE chemical preparation

**preparation (sample)**

- USE sample preparation

**PRESENT WORTH METHOD**

- RT cost
- RT fuel cycle
- RT power reactors

**PRESERVATION**

- NT1 radiopreservation
- NT2 radurization
- RT bacterial spores
- RT cultural objects
- RT disinfection
- RT food
- RT food processing
- RT fumigants
- RT grain disinfection
- RT ifip
- RT inactivation
- RT organoleptic properties

- RT pasteurization
- RT preservatives
- RT sterilization
- RT wholesomeness

**PRESERVATIVES**

INIS: 1999-05-03; ETDE: 1975-12-16

- RT additives
- RT creosote
- RT dioxin
- RT preservation

**PRESSES**

- RT extrusion
- RT forging
- RT machine tools
- RT pressing
- RT tools

**PRESSING**

- \*BT1 materials working
- NT1 cold pressing
- NT1 hot pressing
- RT compacting
- RT dies
- RT extrusion
- RT forging
- RT presses

**pressure (1-10 atm)**

2003-11-19

- USE pressure range kilo pa

**pressure (1-10 bar)**

2003-11-19

- USE pressure range kilo pa

**pressure (1-10 milli bar)**

2003-11-19

- USE pressure range pa

**pressure (10-100 atm)**

2003-11-19

- USE pressure range mega pa 01-10

**pressure (10-100 bar)**

2003-11-19

- USE pressure range mega pa 01-10

**pressure (10-1000 milli bar)**

2003-11-19

- USE pressure range kilo pa

**pressure (100-1000 atm)**

2003-11-19

- USE pressure range mega pa 10-100

**pressure (1000-10000 atm)**

2003-11-19

- USE pressure range mega pa 100-1000

**pressure (10000 atm and above)**

2003-11-19

- USE pressure range giga pa

**pressure (7.5 - 7.5x10(3) torr)**

2003-11-19

- USE pressure range kilo pa

**pressure (7.5x10(-3) - 7.5 torr)**

2003-11-19

- USE pressure range pa

**pressure (critical)**

- USE critical pressure

**pressure (plasma)**

- USE plasma pressure

**pressure (radiation)**

- USE radiation pressure

**pressure (vapor)**

- USE vapor pressure

**PRESSURE COEFFICIENT**

BT1 reactivity coefficients

**PRESSURE CONTROL**

1986-04-04

BT1 control  
 RT pressure measurement  
 RT pressure regulators  
 RT pressure release  
 RT pressure suppression  
 RT pressure vessels

**PRESSURE DEPENDENCE**

Combine with the relevant descriptor from the PRESSURE RANGE word block.

UF pressure effects  
 RT pressure drop  
 RT pressure range

**PRESSURE DROP**

RT flow rate  
 RT fluid flow  
 RT pressure dependence  
 RT pressure gradients

**pressure effects**

INIS: 1992-04-29; ETDE: 1984-03-19  
 (Prior to June 1993, this was a valid ETDE descriptor.)

USE pressure dependence

**PRESSURE GAGES**

UF gages (pressure)  
 UF manometers  
 BT1 measuring instruments  
 NT1 barometers  
 NT1 hot-wire gages  
 NT2 pirani gages  
 NT1 vacuum gages  
 NT2 ionization gages  
 NT3 bayard-alpert gages  
 NT3 philips gages  
 NT3 radioactive ionization gages  
 NT2 knudsen gages  
 NT2 pirani gages  
 RT bellows  
 RT pressure measurement

**PRESSURE GRADIENTS**

RT onsager relations  
 RT pressure drop  
 RT pressure measurement  
 RT pressurization

**pressure groups**

INIS: 1982-12-03; ETDE: 1980-12-08  
 USE interest groups

**pressure maintenance**

INIS: 1984-12-04; ETDE: 1976-07-07  
 USE pressurization

**PRESSURE MEASUREMENT**

NT1 piezometry  
 RT atmospheric pressure  
 RT geobarometry  
 RT pressure control  
 RT pressure gages  
 RT pressure gradients

**PRESSURE RANGE**

2003-11-19

NT1 pressure range below 1 nano pa  
 NT1 pressure range giga pa  
 NT1 pressure range kilo pa  
 NT1 pressure range mega pa  
 NT2 pressure range mega pa 01-10  
 NT2 pressure range mega pa 10-100  
 NT2 pressure range mega pa 100-1000  
 NT1 pressure range micro pa  
 NT1 pressure range milli pa  
 NT1 pressure range nano pa

NT1 pressure range pa  
 RT pressure dependence  
 RT vacuum pumps

**PRESSURE RANGE BELOW 1 NANO PA**

PA

2003-11-19

From 0 to 10 exp -9 pascal.

(Prior to November 2003 ULTRAHIGH VACUUM was used for this pressure range.)

UF vacuum (below 1 nano pa)  
 UF vacuum (below  $7.5 \times 10^{-12}$  torr)  
 SF ultrahigh vacuum  
 BT1 pressure range

**PRESSURE RANGE GIGA PA**

2003-11-19

From 10 exp 9 to 10 exp 12 pascal.

(Prior to November 2003 VERY HIGH PRESSURE was used for this pressure range.)

UF pressure (10000 atm and above)  
 SF very high pressure  
 BT1 pressure range

**PRESSURE RANGE KILO PA**

2003-11-19

From 10 exp 3 to 10 exp 6 pascal.

(Prior to November 2003 MEDIUM PRESSURE or LOW PRESSURE was used for this pressure range.)

UF pressure (1-10 atm)  
 UF pressure (1-10 bar)  
 UF pressure (10-1000 milli bar)  
 UF pressure ( $7.5 - 7.5 \times 10(3)$  torr)  
 UF vacuum ( $7.5 - 7.5 \times 10(3)$  torr)  
 SF low pressure  
 SF medium pressure  
 SF rough vacuum  
 SF vacuum (rough)  
 BT1 pressure range

**PRESSURE RANGE MEGA PA**

2003-11-19

From 10 exp 6 to 10 exp 9 pascal.

BT1 pressure range  
 NT1 pressure range mega pa 01-10  
 NT1 pressure range mega pa 10-100  
 NT1 pressure range mega pa 100-1000

**PRESSURE RANGE MEGA PA 01-10**

2003-11-19

(Prior to November 2003 MEDIUM PRESSURE was used for this pressure range.)

UF pressure (10-100 atm)  
 UF pressure (10-100 bar)  
 SF medium pressure  
 \*BT1 pressure range mega pa

**PRESSURE RANGE MEGA PA 10-100**

2003-11-19

(Prior to November 2003 HIGH PRESSURE was used for this pressure range.)

UF high pressure  
 UF pressure (100-1000 atm)  
 \*BT1 pressure range mega pa

**PRESSURE RANGE MEGA PA 100-1000**

2003-11-19

(Prior to November 2003 VERY HIGH PRESSURE was used for this pressure range.)

UF pressure (1000-10000 atm)  
 SF very high pressure  
 \*BT1 pressure range mega pa

**PRESSURE RANGE MICRO PA**

2003-11-19

From 10 exp -6 to 10 exp -3 pascal.

(Prior to November 2003 HIGH VACUUM was used for this pressure range.)

UF vacuum (1-1000 micro pa)

UF vacuum ( $7.5 \times 10(-9) - 7.5 \times 10(-6)$  torr)  
 SF high vacuum  
 SF ultrahigh vacuum  
 BT1 pressure range

**PRESSURE RANGE MILLI PA**

2003-11-19

From 10 exp -3 to 1 pascal.

(Prior to November 2003 MEDIUM VACUUM or HIGH VACUUM was used for this pressure range.)

UF vacuum (1-1000 milli pa)  
 UF vacuum ( $7.5 \times 10(-6) - 7.5 \times 10(-3)$  torr)  
 SF high vacuum  
 SF medium vacuum  
 SF very low pressure  
 BT1 pressure range

**PRESSURE RANGE NANO PA**

2003-11-19

From 10 exp -9 to 10 exp -6 pascal.

(Prior to November 2003 ULTRAHIGH VACUUM was used for this pressure range.)

UF vacuum (1-1000 nano pa)  
 UF vacuum ( $7.5 \times 10(-12) - 7.5 \times 10(-9)$  torr)  
 SF ultrahigh vacuum  
 BT1 pressure range

**PRESSURE RANGE PA**

2003-11-19

From 1 to 1000 pascal.

(Prior to November 2003 LOW PRESSURE or MEDIUM VACUUM was used for this pressure range.)

UF pressure (1-10 milli bar)  
 UF pressure ( $7.5 \times 10(-3) - 7.5$  torr)  
 UF vacuum (1-1000 pa)  
 UF vacuum ( $7.5 \times 10(-3) - 7.5$  torr)  
 UF vacuum insulation panels  
 SF low pressure  
 SF medium vacuum  
 SF rough vacuum  
 SF vacuum (rough)  
 SF very low pressure  
 BT1 pressure range

**PRESSURE REGULATORS**

\*BT1 control equipment  
 RT pressure control

**PRESSURE RELEASE**

RT hazards  
 RT pressure control  
 RT reactor safety  
 RT safety engineering

**PRESSURE SUPPRESSION**

The suppression of pressure within a containment by some technique such as a water spray.

RT condensation chambers  
 RT containment spray systems  
 RT pressure control  
 RT pressure vessels  
 RT reactor accidents  
 RT reactor safety

**PRESSURE TUBE REACTORS**

1999-09-07

\*BT1 power reactors  
 NT1 atucha-2 reactor  
 NT1 atucha reactor  
 NT1 candu type reactors  
 NT2 bruce-1 reactor  
 NT2 bruce-2 reactor  
 NT2 bruce-3 reactor  
 NT2 bruce-4 reactor  
 NT2 bruce-5 reactor  
 NT2 bruce-6 reactor  
 NT2 bruce-7 reactor

**NT2** bruce-8 reactor  
**NT2** cernavoda-1 reactor  
**NT2** cordoba reactor  
**NT2** darlington-1 reactor  
**NT2** darlington-2 reactor  
**NT2** darlington-3 reactor  
**NT2** darlington-4 reactor  
**NT2** douglas point ontario reactor  
**NT2** embalse reactor  
**NT2** gentilly-2 reactor  
**NT2** gentilly reactor  
**NT2** kaiga-1 reactor  
**NT2** kaiga-2 reactor  
**NT2** kakrapar-1 reactor  
**NT2** kakrapar-2 reactor  
**NT2** kanupp reactor  
**NT2** npd reactor  
**NT2** pickering-1 reactor  
**NT2** pickering-2 reactor  
**NT2** pickering-3 reactor  
**NT2** pickering-4 reactor  
**NT2** pickering-5 reactor  
**NT2** pickering-6 reactor  
**NT2** pickering-7 reactor  
**NT2** pickering-8 reactor  
**NT2** point lepreau-1 reactor  
**NT2** point lepreau-2 reactor  
**NT2** qinshan-3-1 reactor  
**NT2** qinshan-3-2 reactor  
**NT2** rajasthan-1 reactor  
**NT2** rajasthan-2 reactor  
**NT2** rajasthan-3 reactor  
**NT2** rajasthan-4 reactor  
**NT2** wolsung-1 reactor  
**NT2** wolsung-2 reactor  
**NT2** wolsung-3 reactor  
**NT2** wolsung-4 reactor  
**NT1** cirene reactor  
**NT1** cvtr reactor  
**NT1** el-4 reactor  
**NT1** jatr reactor  
**NT1** kalpakkam-1 reactor  
**NT1** kalpakkam-2 reactor  
**NT1** lucens reactor  
**NT1** niederaichbach reactor  
**NT1** prtr reactor  
**NT1** sghwr reactor

### PRESSURE TUBES

**BT1** tubes  
**RT** borescopes  
**RT** calandrias  
**RT** reactor cooling systems

### PRESSURE VESSELS

**UF** vessels (pressure)  
**BT1** containers  
**RT** autoclaves  
**RT** depressurization  
**RT** depressurization systems  
**RT** pipe fittings  
**RT** pressure control  
**RT** pressure suppression

### PRESSURIZATION

*INIS: 1984-12-04; ETDE: 1976-07-07*  
 (Prior to November 1990 this material was indexed to PRESSURIZING in ETDE.)

**UF** pressure maintenance  
**UF** pressurizing  
**UF** repressuring  
**RT** compression  
**RT** depressurization  
**RT** fluid injection  
**RT** pressure gradients  
**RT** pressurizers  
**RT** transients

### pressurized heavy water cooled/moderated reactor

*1993-11-09*  
**USE** phwr type reactors

### pressurized subcritical experiment savannah

*1993-11-09*  
**USE** pse reactor

### pressurized water cooled moderated reactor

*1993-11-09*  
**USE** pwr type reactors

### pressurized water reactors

**USE** pwr type reactors

### PRESSURIZERS

**RT** compressors  
**RT** pressurization  
**RT** reactor cooling systems

### pressurizing

*INIS: 1984-12-04; ETDE: 1976-07-07*  
 (Prior to November 1990 this was a valid ETDE descriptor.)  
**USE** pressurization

### PRESTRESSED CONCRETE

**\*BT1** composite materials  
**\*BT1** concretes

### prevention of marine pollution, 1972 london convention on

*INIS: 2002-03-02; ETDE: 2002-04-26*  
**USE** lcpmpdpw

### prevention of significant deterioration

*INIS: 2000-04-12; ETDE: 1979-07-24*  
*US pollution regulation resulting from the Clean Air and Clean Water Acts of 1976 and 1980, respectively. Use the appropriate descriptor(s) for POLLUTION ABATEMENT below and OPTIMIZATION, if appropriate.*  
 (Prior to March 1997 this was a valid ETDE descriptor.)

**SEE** air pollution abatement  
**SEE** land pollution abatement  
**SEE** water pollution abatement

### PREVENTIVE MEDICINE

**UF** prophylaxis  
**BT1** medicine  
**RT** accidents  
**RT** environment  
**RT** epidemiology  
**RT** health hazards  
**RT** immunity  
**RT** inspection  
**RT** medical examinations  
**RT** medical surveillance  
**RT** public health  
**RT** radiation protection

### PRICE-ANDERSON ACT

*INIS: 1978-04-21; ETDE: 1976-10-13*  
**BT1** laws  
**RT** civil liability  
**RT** legal aspects  
**RT** nuclear insurance  
**RT** nuclear liability

### PRICES

*1992-02-21*

(Prior to June 1979 CHARGES was used for this concept in ETDE. From April 1978 till March 1997 RATE STRUCTURE was a valid descriptor.)

**UF** rate structure  
**NT1** incremental-cost pricing  
**NT1** marginal-cost pricing  
**NT1** peak-load pricing  
**NT1** retail prices  
**NT1** rolled-in pricing  
**NT1** time-of-use pricing  
**NT1** wellhead prices  
**NT1** wholesale prices  
**RT** charges  
**RT** cost  
**RT** economic elasticity  
**RT** energy expenses  
**RT** entitlements program  
**RT** fuel adjustment mechanisms  
**RT** income  
**RT** pricing regulations  
**RT** retailers  
**RT** spot market

### PRICING REGULATIONS

*INIS: 1992-02-23; ETDE: 1979-11-23*  
**\*BT1** regulations  
**RT** deregulation  
**RT** economic policy  
**RT** prices  
**RT** us natural gas policy act

### prigogine-balescu theory

**USE** prigogine theorem

### PRIGOGINE THEOREM

**UF** balescu theory  
**UF** prigogine-balescu theory  
**UF** van hove-prigogine theory  
**RT** irreversible processes

### PRIMAKOFF EFFECT

**\*BT1** photoproduction  
**RT** pions neutral

### PRIMAKOFF THEORY

**RT** fermi interactions

### PRIMARY BATTERIES

*INIS: 2000-04-12; ETDE: 1976-05-17*  
**RT** electric batteries  
**RT** electrochemical cells

### PRIMARY COOLANT CIRCUITS

**\*BT1** reactor cooling systems  
**NT1** coolant cleanup systems  
**RT** electromagnetic filters

### PRIMARY COSMIC RADIATION

**\*BT1** cosmic radiation  
**NT1** cosmic alpha particles  
**NT1** cosmic gamma bursts  
**NT1** cosmic nuclei  
**NT1** cosmic x-ray bursts  
**RT** cosmic gamma sources  
**RT** cosmic ray sources

### PRIMARY RECOVERY

*INIS: 2000-04-12; ETDE: 1979-02-23*  
**UF** natural depletion  
**SF** recovery  
**RT** natural gas  
**RT** petroleum

### PRIMARY-SECONDARY HYBRID BATTERIES

*2000-04-12*

Hybrid systems consisting of a primary battery and a rechargeable battery.

**\*BT1** electric batteries

**PRIMATES**

- \*BT1 mammals
- NT1 apes
- NT1 man
  - NT2 children
    - NT3 infants
  - NT2 elderly people
  - NT2 men
  - NT2 women
- NT1 monkeys
  - NT2 baboons
  - NT2 macacus

**PRIMENE**

- \*BT1 amines

**PRINCE EDWARD ISLAND**

- INIS: 1979-02-21; ETDE: 1980-07-23
- \*BT1 canada
- BT1 islands
- RT atlantic ocean

**princeton beta experiment**

- INIS: 1988-11-16; ETDE: 2001-01-23
- USE pbx devices

**PRINCETON CYCLOTRON**

- \*BT1 isochronous cyclotrons

**princeton large torus**

- INIS: 1975-10-23; ETDE: 1975-08-19
- USE plt devices

**PRINCETON SYNCHROTRON**

- \*BT1 synchrotrons

**PRINTED CIRCUITS**

- BT1 electronic circuits
- RT microelectronic circuits

**PRINTING AND PUBLISHING INDUSTRY**

- INIS: 1999-05-26; ETDE: 1979-12-10
- BT1 industry
  - RT paper industry
  - RT wood products industry

**PRIPET RIVER**

- INIS: 1992-05-13; ETDE: 1992-09-21
- UF pripyat river
- \*BT1 rivers
  - RT chernobylsk-4 reactor
  - RT dneiper river
  - RT ukraine

**pripyat river**

- INIS: 1992-05-13; ETDE: 1992-09-21
- USE pripet river

**PRISM PLOT**

- INIS: 1977-07-05; ETDE: 1977-10-19
- Phase-space plot of a three-particle final state.
- \*BT1 scatterplots
  - RT linear momentum
  - RT phase space
  - RT resonance particles

**PRISMATIC CONFIGURATION**

- BT1 configuration
  - RT plates
  - RT slabs

**PRISMS**

- INIS: 2000-01-21; ETDE: 1976-02-19
- RT geometry
- RT shape

**PRIVACY ACT**

- INIS: 2000-04-12; ETDE: 1976-10-13
- The U.S. Privacy Act of 1974.
- BT1 laws
  - RT documentation

RT information

**private law**

INIS: 1990-12-15; ETDE: 2002-04-26  
(Prior to December 1990, this was a valid descriptor.)

USE laws

**PRIVATE VEHICLES**

2006-05-24  
Transportation means not available for general public use, for such vehicles see MASS TRANSIT SYSTEMS. Use also a more specific term from the word block of VEHICLES if appropriate.

BT1 transportation systems

**PRNC-L-77 REACTOR**

Univ. of Puerto Rico, College Station, Mayaguez, Puerto Rico, USA. Shut down in 1979.

UF l-77 puerto rico reactor  
UF mayaguez puerto rico l-77 reactor  
UF puerto rico nuclear center l-77 reactor

- \*BT1 aqueous homogeneous reactors
- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 training reactors

**PROBABILISTIC ESTIMATION**

INIS: 1986-04-04; ETDE: 1983-01-21  
Analytical technique for calculation of unknown quantities and the uncertainty associated with the probabilistic estimates of those quantities.

UF probabilistic safety assessment  
BT1 calculation methods  
RT deterministic estimation  
RT fault tree analysis  
RT forecasting  
RT probability  
RT resource assessment  
RT risk assessment  
RT safety analysis  
RT statistics

**probabilistic safety assessment**

2003-12-17  
USE probabilistic estimation  
USE risk assessment

**PROBABILITY**

RT chaos theory  
RT ergodic hypothesis  
RT expectation value  
RT fuzzy logic  
RT game theory  
RT maximum-likelihood fit  
RT monte carlo method  
RT probabilistic estimation  
RT probability density functions  
RT risk assessment  
RT statistics

**PROBABILITY DENSITY FUNCTIONS**

2007-01-08  
Real-valued functions whose integrals over sets give the probabilities that random variables have values in these sets.

BT1 functions  
RT density functional method  
RT probability  
RT statistics

**PROBES**

UF sondes  
NT1 deuteron probes  
NT1 electric probes  
NT2 langmuir probe

NT2 plasma eaters

NT1 electron probes  
NT1 electrostatic probes  
NT1 ion probes  
NT1 magnetic probes  
NT1 muon probes  
NT1 neutron probes  
NT1 proton probes  
NT1 sonic probes  
RT measuring instruments  
RT sensors  
RT well logging equipment

**PROCA EQUATIONS**

\*BT1 partial differential equations  
RT quantum mechanics

**PROCAINE**

UF novocaine  
\*BT1 anesthetics

**PROCEEDINGS**

1996-05-14  
Use only for items about proceedings, not for items which are proceedings.  
BT1 document types  
RT meetings

**PROCESS COMPUTERS**

INIS: 1976-07-16; ETDE: 1979-05-25  
Computers - usually digital - used for the control of technical processes.  
BT1 computers  
RT on-line control systems  
RT reactor control systems  
RT real time systems

**PROCESS CONTROL**

INIS: 1992-02-04; ETDE: 1975-12-16  
BT1 control  
RT ore processing  
RT processing  
RT reprocessing  
RT waste processing

**process development pile**

USE pdp reactor

**PROCESS DEVELOPMENT UNITS**

INIS: 1984-04-04; ETDE: 1977-01-10  
UF pdu  
BT1 functional models  
RT bench-scale experiments  
RT demonstration plants  
RT field tests  
RT pilot plants

**PROCESS HEAT**

INIS: 2000-05-17; ETDE: 1975-09-12  
Heat for industrial processes.  
UF heat (process)  
\*BT1 heat  
NT1 geothermal process heat  
NT1 solar process heat  
RT dual-purpose power plants  
RT process heat reactors  
RT retorting

**PROCESS HEAT REACTORS**

BT1 reactors  
NT1 agesta reactor  
NT1 midland-1 reactor  
NT1 midland-2 reactor  
NT1 nhr-5 reactor  
NT1 pm-2a reactor  
NT1 ser reactor  
NT1 sl-1 reactor  
NT1 slowpoke-wvnr reactor  
NT1 sm-1a reactor  
NT1 snap 10 reactor  
NT2 s10fs-1 reactor  
NT2 s10fs-3 reactor

- NT2 s10fs-4 reactor
- NT1 snap-tsrf reactor
- NT1 thermos reactor
- RT power reactors
- RT process heat

**PROCESS SOLUTIONS**

INIS: 1992-04-02; ETDE: 1978-04-27

- UF plating solutions
- \*BT1 solutions

**processes (adiabatic)**

- USE adiabatic processes

**processes (isentropic)**

- USE isentropic processes

**processes (isothermal)**

- USE isothermal processes

**PROCESSING**

2000-02-01

Use of one of the more specific terms listed below is recommended.

- NT1 coprocessing
- NT1 data processing
  - NT2 distributed data processing
  - NT2 memory management
  - NT2 spectra unfolding
  - NT2 task scheduling
- NT1 food processing
  - NT2 pasteurization
  - NT3 radication
    - NT2 radappertization
    - NT2 radurization
- NT1 image processing
- NT1 in-situ processing
  - NT2 in-situ combustion
  - NT2 in-situ gasification
  - NT2 in-situ liquefaction
  - NT2 in-situ retorting
  - NT2 solution mining
- NT1 odorization
- NT1 ore processing
  - NT2 ore enrichment
  - NT2 retorting
    - NT3 in-situ retorting
- NT1 refining
  - NT2 electrorefining
  - NT2 gulf hds process
  - NT2 zone refining
- NT1 waste processing
  - NT2 activated sludge process
  - NT2 composting
  - NT2 fluidized bed refuse gasification
  - NT2 landgard pyrolysis system
  - NT2 lime-soda sinter process
  - NT2 materials recovery
  - NT2 molten salt waste gasification process
    - NT2 occidental flash pyrolysis process
    - NT2 purox pyrolysis process
    - NT2 radioactive waste processing
      - NT3 harvest process
    - NT2 slagging pyrolysis process
    - NT2 steam stripping
    - NT2 syngas process
    - NT2 unisulf process
    - NT2 wet oxidation processes
  - RT process control

**processing (data)**

- USE data processing

**processing (food)**

INIS: 1997-06-05; ETDE: 2002-04-26

- USE food processing

**processing (images)**

INIS: 1997-06-05; ETDE: 2002-04-26

- USE image processing

**processing (ores)**

- USE ore processing

**processing (wastes)**

- USE waste processing

**PROCTITIS**

- \*BT1 digestive system diseases
- RT rectum

**PROCUREMENT**

INIS: 1992-05-26; ETDE: 1976-04-19

- BT1 business
  - RT accounting
  - RT cost
    - RT cost overruns
    - RT debt collection
  - RT goods and services
  - RT proposals
  - RT time delay

**PRODUCER GAS**

2000-04-12

Gas manufactured by the action of air and steam on coke or coal. 130 to 140 btu per cubic foot.

- \*BT1 low btu gas

**producer price index**

INIS: 2000-04-12; ETDE: 1981-10-24

(Prior to March 1996 WHOLESale PRICE INDEX was used for this concept in ETDE.)

- USE wholesale prices

**PRODUCT LABELING**

INIS: 2000-04-12; ETDE: 1979-03-27

- RT advertising
- RT consumer protection

**PRODUCTION**

Limited to industrial production; see also PARTICLE PRODUCTION.

- UF output
- RT availability
- RT capacity
- RT computer-aided manufacturing
- RT fabrication
- RT gross domestic product
- RT gross national product
- RT isotope production
- RT manufacturing
- RT planning
- RT productivity

**production (beam)**

- USE beam production

**production (hydrogen)**

INIS: 1994-10-13; ETDE: 1980-11-08

- USE hydrogen production

**production (isotope)**

INIS: 2000-04-12; ETDE: 1980-07-09

- USE isotope production

**production (pair)**

INIS: 2000-04-12; ETDE: 1980-11-08

- USE pair production

**production (particle)**

INIS: 2000-04-12; ETDE: 1980-07-09

- USE particle production

**production (plasma)**

INIS: 2000-04-12; ETDE: 1980-11-08

- USE plasma production

**production capacity**

INIS: 1982-12-03; ETDE: 1977-06-02

- USE capacity

**PRODUCTION LOGGING**

INIS: 2000-04-12; ETDE: 1977-01-10

Logging run inside tubing to measure production rate of oil or natural gas wells.

Instrumentation may be flowmeters, gradiomanometer, densitometer, watercutmeter, thermometer, radioactive tracer tool, caliper, casing-collar locator, or fluid sampler.

- BT1 well logging

**production mechanisms (particle)**

INIS: 1993-11-09; ETDE: 2002-04-26

Production of elementary particles; when appropriate, more specific descriptors listed under PARTICLE PRODUCTION should be used instead.

- USE particle production

**PRODUCTION REACTORS**

For the production of fissile materials only; see also IRRADIATION REACTORS.

- BT1 reactors
  - NT1 plutonium production reactors
    - NT2 calder hall a-1 reactor
    - NT2 calder hall a-2 reactor
    - NT2 calder hall b-3 reactor
    - NT2 calder hall b-4 reactor
    - NT2 chapelcross-1 reactor
    - NT2 chapelcross-2 reactor
    - NT2 chapelcross-3 reactor
    - NT2 chapelcross-4 reactor
    - NT2 g-1 reactor
    - NT2 g-2 reactor
    - NT2 g-3 reactor
    - NT2 hanford production reactors
      - NT2 n-reactor
      - NT2 windscale production reactors
  - NT1 rtr reactor
  - NT1 special production reactors
    - NT2 c reactor
    - NT2 k reactor
    - NT2 l reactor
    - NT2 p reactor
    - NT2 r reactor
  - NT1 sr-305 reactor

**production risers**

INIS: 2000-04-12; ETDE: 1977-04-12

- USE marine risers

**production tax**

INIS: 2000-04-12; ETDE: 1981-03-17

- USE severance tax

**PRODUCTIVITY**

- UF yield (biological)
- RT efficiency
- RT feasibility studies
- RT gas yields
- RT oil yields
- RT performance
- RT plant breeding
- RT production
- RT yields

**productivity factor**

INIS: 2000-04-12; ETDE: 1983-01-21

- USE formation damage

**professional personnel**

INIS: 2000-04-12; ETDE: 1979-03-28

- SEE architects
- SEE engineers
- SEE personnel
- SEE scientific personnel

**professions**

- USE occupations

**PROFITS**

1992-04-09

- UF margins
- RT economics
- RT income
- RT royalties
- RT windfall profits tax

**PROFLAVINE**

- \*BT1 flavines
- BT1 mutagens
- RT acriflavine

**PROGENY**

- UF offsprings
- RT animal breeding
- RT children
- RT fertility
- RT litter size
- RT parturition
- RT plant breeding
- RT reproduction
- RT sex ratio

**PROGESTERONE**

1996-10-23

- UF progestin
- \*BT1 ketones
- \*BT1 pregnanes
- \*BT1 steroid hormones
- RT hydroxypregnenone
- RT lth
- RT ovaries
- RT pregnancy

**progestin**

INIS: 2000-04-12; ETDE: 1978-10-23

- USE progesterone

**PROGNOZ SATELLITES**

- BT1 satellites

**PROGRAM MANAGEMENT**

1992-05-21

(From February to May 1992, this concept was indexed to USDOE PROGRAM MANAGEMENT in ETDE.)

- UF financial management
- UF project management
- UF us doe program management
- BT1 management
- NT1 contract management
- RT demonstration programs
- RT property management
- RT research programs

**PROGRAMMING**

Limited to computer programming. See also PLANNING.

- UF computer programming
- NT1 data-flow processing
- NT1 parallel processing
- NT1 vector processing
- RT artificial intelligence
- RT computer codes
- RT computer program documentation
- RT computers
- RT executive codes
- RT expert systems
- RT fault tolerant computers
- RT knowledge base
- RT memory management
- RT programming languages
- RT translators

**PROGRAMMING LANGUAGES**

1996-07-23

(Natural language as well as specific languages listed below as UF terms have been valid ETDE descriptors.)

- UF computer languages

- UF forth
- UF languages (programming)
- UF mimic
- UF natural language
- UF pl-11 language
- UF speakeasy
- NT1 ada
- NT1 algol
- NT1 basic
- NT1 cobol
- NT1 fortran
- NT1 java
- NT1 lisp
- NT1 pascal
- NT1 pl-1 language
- NT1 prolog
- RT computer codes
- RT computer program documentation
- RT programming
- RT translators

**PROGRESS REPORT**

INIS: 1987-09-22; ETDE: 1987-10-23

Use only in conjunction with the literary indicator Y for indexing progress reports.

- BT1 document types

**prohibition of nuclear weapons (latin american treaty)**

INIS: 1993-11-09; ETDE: 2002-04-26

- USE tlatelolco treaty

**PROHIBITION ORDERS**

INIS: 2000-04-12; ETDE: 1980-08-12

- BT1 administrative procedures

**project anvil**

INIS: 1978-04-21; ETDE: 2002-06-13

- USE anvil project

**project apollo**

- USE apollo project

**project bedrock**

INIS: 1976-11-08; ETDE: 2002-06-13

- USE bedrock project

**project buffalo**

1996-06-26

(Prior to June 1996 BUFFALO PROJECT was a valid ETDE descriptor.)

- USE nuclear explosions

**project castle**

1976-11-17

- USE castle project

**project crossroads**

1976-11-17

- USE crossroads project

**project dominic**

1976-11-17

- USE dominic project

**project greenhouse**

1976-11-17

- USE greenhouse project

**project hardtack**

1976-11-17

- USE hardtack project

**PROJECT INDEPENDENCE**

2000-04-12

- \*BT1 energy policy

**project independence evaluation system**

INIS: 2000-04-12; ETDE: 1979-02-23

- USE pies

**project ivy**

2002-06-07

(Prior to March 1996 IVY PROJECT was a valid ETDE descriptor.)

- USE nuclear explosions

**project jangle**

2002-06-07

(Prior to March 1996 JANGLE PROJECT was a valid ETDE descriptor.)

- USE nuclear explosions

**project management**

INIS: 2000-04-12; ETDE: 1980-09-05

- USE program management

**project plowshare**

- USE plowshare project

**project plumbbob**

1976-11-17

- USE plumbbob project

**project redwing**

INIS: 1985-01-17; ETDE: 2002-06-13

- USE redwing project

**project salt vault**

INIS: 2000-04-12; ETDE: 1980-12-08

- USE salt vault project

**project sunshine**

INIS: 2000-04-12; ETDE: 1976-05-17

- USE sunshine project

**project thunderbird**

INIS: 1983-09-05; ETDE: 1975-11-26

- USE thunderbird project

**project upshot**

1976-11-17

- USE upshot project

**project vela**

1976-11-17

- USE vela project

**PROJECTILES**

- RT armor
- RT earth penetrators
- RT guns
- RT nuclear weapons
- RT rockets

**PROJECTION OPERATORS**

A mathematical operator for projecting a quantity, e.g., angular momentum, on a given coordinate.

- BT1 mathematical operators
- RT aligned coupling scheme
- RT quantum mechanics
- RT wave functions

**PROJECTION SERIES**

INIS: 1994-07-01; ETDE: 1980-08-12

- BT1 energy models
- BT1 forecasting
- RT mathematical models

**PROJECTION SPARK CHAMBERS**

Charged-particle detectors that provide particle identification through ionization loss sampling as well as three-dimensional particle trajectory measurement.

- \*BT1 spark chambers
- RT drift chambers
- RT fermilab collider detector
- RT multiwire proportional chambers
- RT time projection chambers



**projection welding**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE resistance welding

**projectors (scanning)**

USE scanning measuring projectors

**prolactin**

USE lth

**PROLIFERATION**

INIS: 1978-02-23; ETDE: 1977-08-09

(From May 1987 till March 1997

TERRORISM was a valid ETDE descriptor.)

UF non-proliferation

UF nonproliferation

UF nuclear weapons proliferation

SF terrorism

RT denatured fuel

RT fuel cycle

RT non-proliferation policy

RT non-proliferation treaty

RT nuclear deterrence

RT nuclear materials possession

RT nuclear weapons dismantlement

RT safeguards

**proliferation (cell)**

INIS: 1978-04-21; ETDE: 2002-04-26

USE cell proliferation

**proliferation resistant molten****salt/metal extraction**

INIS: 2000-04-12; ETDE: 1979-09-26

USE reprocessing

**PROLINE**

UF 2-pyrrolidinedicarboxylic acid

\*BT1 amino acids

\*BT1 heterocyclic acids

\*BT1 pyrrolidines

RT collagen

RT hydroxyproline

**PROLOG**

INIS: 1989-04-20; ETDE: 1985-12-11

BT1 programming languages

**promazine**

USE tranquilizers

**promethazine**

ETDE: 1981-04-20

(Prior to April 1994, this was a valid ETDE descriptor.)

USE antihistaminics

**PROMETHIUM**

UF illinium

\*BT1 rare earths

**PROMETHIUM 126**

2007-11-22

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 127**

2007-11-22

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 128**

2007-11-22

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 129**

2006-01-18

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 130**

INIS: 1985-07-22; ETDE: 1985-08-08

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 131**

INIS: 1998-10-20; ETDE: 1998-11-04

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 132**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 133**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 134**

INIS: 1977-04-07; ETDE: 1977-06-03

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 135**

INIS: 1976-01-28; ETDE: 1976-03-12

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 136**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 137**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 138**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 139**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 140**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 141**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 142**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 143**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 144**

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 years living radioisotopes

**PROMETHIUM 145**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 internal conversion radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 years living radioisotopes

**PROMETHIUM 145 TARGET**

INIS: 1992-09-23; ETDE: 1986-04-29

BT1 targets

**PROMETHIUM 146**

\*BT1 beta-minus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 years living radioisotopes

**PROMETHIUM 147**

\*BT1 beta-minus decay radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 years living radioisotopes

**PROMETHIUM 147 TARGET**

INIS: 1984-05-24; ETDE: 1980-01-15

BT1 targets

**PROMETHIUM 148**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 149**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 149 TARGET**

*INIS: 1976-03-17; ETDE: 1976-07-12*  
BT1 targets

**PROMETHIUM 150**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 151**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 152**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 153**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 154**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 155**

*INIS: 1982-04-14; ETDE: 1981-09-08*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM 156**

*INIS: 1986-10-29; ETDE: 1986-11-20*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM 157**

*INIS: 1987-08-27; ETDE: 1987-10-02*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM 158**

*INIS: 1987-08-27; ETDE: 1987-10-02*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-odd nuclei

- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PROMETHIUM 159**

*2007-11-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM 160**

*2007-11-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei

**PROMETHIUM 161**

*2007-11-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei

**PROMETHIUM 162**

*2007-11-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei

**PROMETHIUM 163**

*2007-11-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei

**PROMETHIUM ADDITIONS**

*1996-07-23*  
*Alloys containing not more than 1% Pm are listed here.*  
\*BT1 rare earth additions

***promethium alloys***

*1996-07-23*  
*See also PROMETHIUM ADDITIONS.*  
(Until July 1996 this was a valid descriptor.)  
USE rare earth alloys

**PROMETHIUM BROMIDES**

*1996-07-23*  
(From July 1996 to September 2007  
PROMETHIUM COMPOUNDS +  
BROMIDES was used for this concept.)  
\*BT1 bromides  
\*BT1 promethium compounds

**PROMETHIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 promethium compounds

**PROMETHIUM COMPLEXES**

- \*BT1 rare earth complexes

**PROMETHIUM COMPOUNDS**

*1997-06-19*  
BT1 rare earth compounds  
NT1 promethium bromides  
NT1 promethium chlorides  
NT1 promethium fluorides  
NT1 promethium halides  
NT2 promethium iodides  
NT1 promethium hydroxides  
NT1 promethium nitrates  
NT1 promethium oxides  
NT1 promethium phosphates

**PROMETHIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 promethium compounds

**PROMETHIUM HALIDES**

*2008-02-07*  
\*BT1 halides  
\*BT1 promethium compounds  
NT1 promethium iodides

**PROMETHIUM HYDROXIDES**

*2000-04-12*  
\*BT1 hydroxides  
\*BT1 promethium compounds

**PROMETHIUM IODIDES**

*1996-07-23*  
(From July 1996 to February 2008  
PROMETHIUM COMPOUNDS + IODIDES  
was used for this concept.)  
\*BT1 iodides  
\*BT1 promethium halides

**PROMETHIUM IONS**

- \*BT1 ions

**PROMETHIUM ISOTOPES**

BT1 isotopes  
NT1 promethium 126  
NT1 promethium 127  
NT1 promethium 128  
NT1 promethium 129  
NT1 promethium 130  
NT1 promethium 131  
NT1 promethium 132  
NT1 promethium 133  
NT1 promethium 134  
NT1 promethium 135  
NT1 promethium 136  
NT1 promethium 137  
NT1 promethium 138  
NT1 promethium 139  
NT1 promethium 140  
NT1 promethium 141  
NT1 promethium 142  
NT1 promethium 143  
NT1 promethium 144  
NT1 promethium 145  
NT1 promethium 146  
NT1 promethium 147  
NT1 promethium 148  
NT1 promethium 149  
NT1 promethium 150  
NT1 promethium 151  
NT1 promethium 152  
NT1 promethium 153  
NT1 promethium 154  
NT1 promethium 155  
NT1 promethium 156  
NT1 promethium 157  
NT1 promethium 158  
NT1 promethium 159  
NT1 promethium 160  
NT1 promethium 161  
NT1 promethium 162  
NT1 promethium 163

**PROMETHIUM NITRATES**

- \*BT1 nitrates
- \*BT1 promethium compounds

**PROMETHIUM OXIDES**

- \*BT1 oxides
- \*BT1 promethium compounds

**PROMETHIUM PHOSPHATES**

*2000-04-12*  
(From March 1997 to November 2007  
PROMETHIUM COMPOUNDS +  
PHOSPHATES was used for this concept.)  
\*BT1 phosphates  
\*BT1 promethium compounds

**promex process**

INIS: 2000-04-12; ETDE: 1979-09-26  
 Method for reprocessing ceramic oxide or carbide fuels using extraction by molten salts followed by liquid metal extraction. (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE reprocessing

**prominences (solar)**

USE solar prominences

**PROMOTERS**

NT1 tumor promoters  
 RT catalysts

**PROMPT ELECTRONS**

\*BT1 electrons

**PROMPT GAMMA RADIATION**

UF pige analysis  
 \*BT1 gamma radiation  
 RT nuclear reactions  
 RT photons

**PROMPT NEUTRONS**

\*BT1 fission neutrons  
 RT fission spectra  
 RT watt fission spectrum

**PROMPT PROTONS**

\*BT1 protons

**prongs**

USE particle tracks

**PRONY METHOD**

INIS: 2000-04-12; ETDE: 1979-10-03  
 Means of obtaining parametric characterization of experimental data by fitting with sum of complex exponentials.  
 BT1 mathematics  
 BT1 parametric analysis  
 RT data analysis  
 RT data processing  
 RT least square fit  
 RT numerical analysis

**proof test facility united nuclear corporation**

1993-11-09  
 USE ptf-unc reactor

**propadiene**

USE allene

**propagation (wave)**

USE wave propagation

**PROPAGATOR**

RT feynman path integral  
 RT quantum field theory

**PROPANE**

\*BT1 alkanes

**propanol (1-)**

ETDE: 2002-04-26  
 USE propanols

**PROPANOLS**

UF 1-propanol  
 UF 2-propanol  
 UF propanol (1-)  
 UF propyl alcohols  
 \*BT1 alcohols

**propanone**

USE acetone

**PROPARGYL RADICALS**

\*BT1 alkyl radicals

**propellants**

2000-04-12  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 SEE explosives  
 SEE fuels

**propenal**

USE acrolein

**propene**

USE propylene

**PROPER MOTION**

Motion of a star with relation to the celestial sphere.  
 BT1 motion  
 RT stars

**properdin**

2000-04-12  
 One component of a complement. (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE complement  
 USE serine proteinases

**properties (chemical)**

INIS: 2000-04-12; ETDE: 1978-04-28  
 USE chemical properties

**properties (mechanical)**

INIS: 2000-04-12; ETDE: 1978-04-28  
 USE mechanical properties

**properties (physical)**

INIS: 2000-04-12; ETDE: 1978-04-28  
 USE physical properties

**property insurance**

INIS: 1990-12-15; ETDE: 2002-04-26  
 (Prior to December 1990, this was a valid descriptor.)  
 USE insurance

**PROPERTY MANAGEMENT**

INIS: 1992-07-22; ETDE: 1983-03-24  
 BT1 management  
 RT program management  
 RT resource management

**PROPERTY RIGHTS**

INIS: 1986-07-09; ETDE: 1978-12-11  
 RT legal aspects  
 RT licenses  
 RT ownership  
 RT site approvals  
 RT water rights

**property tax exemption**

INIS: 1982-12-03; ETDE: 1980-04-14  
 USE financial incentives

**PROPERTY VALUES**

INIS: 1993-02-18; ETDE: 1978-02-14  
 RT economics  
 RT investment  
 RT socio-economic factors

**prophase**

USE mitosis

**prophylaxis**

USE preventive medicine

**propine**

USE propyne

**PROPIOLONITRILE**

2000-04-12  
 UF cyanoacetylene  
 \*BT1 nitriles

**PROPIONIC ACID**

\*BT1 monocarboxylic acids

**PROPORTIONAL COUNTERS**

\*BT1 radiation detectors  
 NT1 bf3 counters  
 NT1 boron lined counters  
 NT1 he-3 counters  
 NT1 liquid proportional counters  
 NT1 multiwire proportional chambers  
 NT2 drift chambers  
 NT3 time projection chambers  
 NT1 needle chambers  
 RT avalanche quenching  
 RT corona counters  
 RT flow counters  
 RT gas scintillation detectors  
 RT proton recoil detectors  
 RT wall effects  
 RT wall-less counters

**PROPOSALS**

INIS: 1999-03-15; ETDE: 1983-05-21  
 (From June 1978 until March 1996 BIDS was a valid ETDE descriptor.)  
 UF bids  
 UF unsolicited proposals  
 RT contracts  
 RT procurement

**PROPOSED REMEDIAL ORDERS**

INIS: 2000-04-12; ETDE: 1979-12-10  
 BT1 administrative procedures

**PROPPING AGENTS**

INIS: 2000-04-12; ETDE: 1977-01-10  
 Materials, generally sand or other rock material, used to prop the artificial crevices formed when underground formations are fractured.  
 RT borehole linking  
 RT natural gas wells  
 RT well completion

**PROPRIETARY INFORMATION**

INIS: 2000-04-12; ETDE: 1983-03-24  
 BT1 information  
 RT information dissemination

**PROPULSION**

NT1 ion propulsion  
 NT1 solar electric propulsion  
 RT ion thrusters  
 RT propulsion reactors  
 RT propulsion systems  
 RT thrusters  
 RT transport

**PROPULSION REACTORS**

SF 710 reactor  
 \*BT1 power reactors  
 NT1 aircraft propulsion reactors  
 NT2 xma-1 reactor  
 NT1 ship propulsion reactors  
 NT2 efd-50 reactor  
 NT2 lenin reactor  
 NT2 leonid brezhnev reactor  
 NT2 mutsu reactor  
 NT2 otto hahn reactor  
 NT2 savannah reactor  
 NT2 sibir reactor  
 NT1 space propulsion reactors  
 NT2 kiwi reactors  
 NT3 kiwi-tnt reactor  
 NT2 nerva reactor  
 NT2 nrx-a1 reactor  
 NT2 nrx-a2 reactor  
 NT2 nrx-a3 reactor  
 NT2 nrx-a4-est reactor  
 NT2 nrx-a5 reactor  
 NT2 nrx-a6 reactor

**NT2** nrx-a7 reactor  
**NT2** pewee-1 reactor  
**NT2** pewee-2 reactor  
**NT2** pewee-3 reactor  
**NT2** pewee-4 reactor  
**NT2** phoebus-1a reactor  
**NT2** phoebus-1b reactor  
**NT2** phoebus-2a reactor  
**NT2** rover reactors  
**NT2** twmr reactor  
**NT2** xe-2 reactor  
**NT1** tory-2a reactor  
**NT1** tory-2c reactor  
**NT1** xe-prime reactor  
**RT** propulsion  
**RT** propulsion systems  
**RT** zpr-9 reactor

**PROPULSION SYSTEMS**

*INIS: 1986-01-21; ETDE: 1981-10-24*

**RT** aircraft  
**RT** ion thrusters  
**RT** missiles  
**RT** propulsion  
**RT** propulsion reactors  
**RT** rockets  
**RT** thrusters  
**RT** vehicles

**propyl alcohols**

**USE** propanols

**PROPYL RADICALS**

\*BT1 alkyl radicals

**PROPYLENE**

**UF** propene  
 \*BT1 alkenes  
**RT** polypropylene

**propylene carbonate**

*INIS: 2000-04-12; ETDE: 1980-12-08*

**USE** carbonic acid esters

**PROPYNE**

**UF** methylacetylene  
**UF** propine  
 \*BT1 alkynes

**PROSPECTING**

**NT1** aerial prospecting  
**RT** exploration  
**RT** geochemical surveys  
**RT** geologic surveys  
**RT** geophysical surveys

**PROSTAGLANDINS**

**RT** hormones  
**RT** prostate

**PROSTATE**

\*BT1 glands  
 \*BT1 male genitals  
**RT** prostaglandins

**PROSTHESES**

*1995-11-15*

**BT1** medical supplies  
**NT1** mechanical heart  
**RT** artificial organs  
**RT** cardiac pacemakers  
**RT** surgical materials

**PROTACTINIUM**

\*BT1 actinides

**PROTACTINIUM 212**

*INIS: 2000-04-12; ETDE: 1997-10-10*

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 213**

*INIS: 1995-05-22; ETDE: 1995-06-08*

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 214**

*INIS: 1995-05-22; ETDE: 1995-06-08*

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 215**

*INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 216**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 217**

*1977-09-15*

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 218**

*INIS: 1977-09-15; ETDE: 1977-11-10*

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 219**

*INIS: 1986-12-09; ETDE: 1987-02-24*

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 220**

*1984-11-30*

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 221**

*1984-11-30*

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 222**

*INIS: 1977-03-01; ETDE: 1976-12-15*

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 223**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes

\*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 224**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 225**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes  
 \*BT1 seconds living radioisotopes

**PROTACTINIUM 226**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 227**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 228**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 229**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 230**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 231**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 neon 24 decay radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes  
 \*BT1 years living radioisotopes

**PROTACTINIUM 231 TARGET**

*ETDE: 1976-07-09*

**BT1** targets

**PROTACTINIUM 232**

\*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 232 TARGET**

*1979-11-02*

**BT1** targets

**PROTACTINIUM 233**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 233 TARGET**

*INIS: 1980-07-24; ETDE: 1980-08-12*  
BT1 targets

**PROTACTINIUM 234**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 235**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 236**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 237**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 238**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 239**

*1996-01-11*  
\*BT1 actinide nuclei  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 protactinium isotopes

**PROTACTINIUM 240**

*2007-11-22*  
\*BT1 actinide nuclei  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 protactinium isotopes

**protactinium additions**

*2000-03-28*  
(Until July 1996 this was a valid descriptor.)  
USE protactinium alloys

**PROTACTINIUM ALLOYS**

*1996-07-23*  
*Alloys containing more than 1% Pa.*  
*UF protactinium additions*  
\*BT1 actinide alloys

**PROTACTINIUM BROMIDES**

- \*BT1 bromides
- \*BT1 protactinium compounds

**PROTACTINIUM CARBIDES**

*1997-01-28*  
(From November 1996 to November 2007  
PROTACTINIUM COMPOUNDS +  
CARBIDES was used for this concept.)  
\*BT1 carbides

- \*BT1 protactinium compounds

**PROTACTINIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 protactinium compounds

**PROTACTINIUM COMPLEXES**

- \*BT1 actinide complexes

**PROTACTINIUM COMPOUNDS**

*1996-11-13*  
BT1 actinide compounds  
NT1 actinium hydrides  
NT1 protactinium bromides  
NT1 protactinium carbides  
NT1 protactinium chlorides  
NT1 protactinium fluorides  
NT1 protactinium halides  
NT2 protactinium iodides  
NT1 protactinium hydrides  
NT1 protactinium hydroxides  
NT1 protactinium nitrates  
NT1 protactinium oxides  
NT1 protactinium phosphates  
NT1 protactinium sulfates

**PROTACTINIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 protactinium compounds

**PROTACTINIUM HALIDES**

*2008-02-07*  
\*BT1 halides  
\*BT1 protactinium compounds  
NT1 protactinium iodides

**PROTACTINIUM HYDRIDES**

*INIS: 1997-01-28; ETDE: 1984-08-06*  
(From November 1996 to November 2007  
PROTACTINIUM COMPOUNDS +  
HYDRIDES was used for this concept.)  
\*BT1 hydrides  
\*BT1 protactinium compounds

**PROTACTINIUM HYDROXIDES**

*1996-07-23*  
(From July 1996 to November 2007  
PROTACTINIUM COMPOUNDS +  
HYDROXIDES was used for this concept.)  
\*BT1 hydroxides  
\*BT1 protactinium compounds

**PROTACTINIUM IODIDES**

*1997-01-28*  
(From October 1996 to February 2008  
PROTACTINIUM COMPOUNDS +  
IODIDES was used for this concept.)  
\*BT1 iodides  
\*BT1 protactinium halides

**PROTACTINIUM IONS**

- \*BT1 ions

**PROTACTINIUM ISOTOPES**

*1999-07-16*  
BT1 isotopes  
NT1 protactinium 212  
NT1 protactinium 213  
NT1 protactinium 214  
NT1 protactinium 215  
NT1 protactinium 216  
NT1 protactinium 217  
NT1 protactinium 218  
NT1 protactinium 219  
NT1 protactinium 220  
NT1 protactinium 221  
NT1 protactinium 222  
NT1 protactinium 223  
NT1 protactinium 224  
NT1 protactinium 225  
NT1 protactinium 226  
NT1 protactinium 227

NT1 protactinium 228  
NT1 protactinium 229  
NT1 protactinium 230  
NT1 protactinium 231  
NT1 protactinium 232  
NT1 protactinium 233  
NT1 protactinium 234  
NT1 protactinium 235  
NT1 protactinium 236  
NT1 protactinium 237  
NT1 protactinium 238  
NT1 protactinium 239  
NT1 protactinium 240

**PROTACTINIUM NITRATES**

*1996-07-23*  
(From July 1996 to November 2007  
PROTACTINIUM COMPOUNDS +  
NITRATES was used for this concept.)  
\*BT1 nitrates  
\*BT1 protactinium compounds

**PROTACTINIUM OXIDES**

- \*BT1 oxides
- \*BT1 protactinium compounds

**PROTACTINIUM PHOSPHATES**

*INIS: 2000-04-12; ETDE: 1976-09-15*  
(From March 1997 to November 2007  
PROTACTINIUM COMPOUNDS +  
PHOSPHATES was used for this concept.)  
\*BT1 phosphates  
\*BT1 protactinium compounds

**PROTACTINIUM SULFATES**

*1996-07-23*  
(From July 1996 to November 2007  
PROTACTINIUM COMPOUNDS +  
SULFATES was used for this concept.)  
\*BT1 protactinium compounds  
\*BT1 sulfates

**PROTAMINES**

*1996-07-08*  
(Prior to August 1996 SALMIN was a valid  
ETDE descriptor.)  
*UF salmin*  
\*BT1 coagulants  
\*BT1 proteins  
*RT nucleoproteins*

**protection**

*2000-04-12*  
USE safety

**protection (corrosion)**

USE corrosion protection

**protection (radiation)**

USE radiation protection

**protection (safety)**

*INIS: 1976-03-02; ETDE: 2002-04-26*  
USE safety

**protective chemicals**

*INIS: 2000-04-12; ETDE: 1977-04-12*  
USE response modifying factors

**PROTECTIVE CLOTHING**

BT1 clothing  
NT1 gloves  
*RT life support systems*  
*RT radiation protection*  
*RT respirators*  
*RT skin absorption*

**PROTECTIVE COATINGS**

BT1 coatings  
*RT decontamination*  
*RT latex*  
*RT waterproofing*

**protein-bound iodine**

USE pbi

**PROTEIN DENATURATION**

UF denaturation (protein)  
 RT heat treatments  
 RT molecular structure  
 RT ph value  
 RT protein structure  
 RT proteins

**PROTEIN ENGINEERING**

INIS: 1994-09-08; ETDE: 1988-04-15  
 Alteration of the primary structure of a protein to enhance a desired property.  
 RT amino acid sequence  
 RT biochemical reaction kinetics  
 RT biotechnology  
 RT genetic engineering  
 RT polymerase chain reaction  
 RT structure-activity relationships

**protein sequencing**

INIS: 2000-04-12; ETDE: 1984-02-10  
 USE amino acid sequence

**PROTEIN STRUCTURE**

1984-12-04  
 RT amino acid sequence  
 RT amino acids  
 RT molecular structure  
 RT post-translation modification  
 RT protein denaturation  
 RT proteins  
 RT structure-activity relationships

**PROTEINS**

1996-07-23

BT1 organic compounds  
 NT1 actin  
 NT1 albumins  
 NT2 luciferin  
 NT1 blood coagulation factors  
 NT2 fibrin  
 NT2 fibrinogen  
 NT2 kallikrein  
 NT2 plasminogen  
 NT2 prothrombin  
 NT2 thrombin  
 NT2 thromboplastin  
 NT2 urokinase  
 NT1 calmodulin  
 NT1 casein  
 NT1 chlorophyll-binding proteins  
 NT1 complement  
 NT1 cytochromes  
 NT1 enzymes  
 NT2 dna helicases  
 NT2 gene recombination proteins  
 NT2 hydrolases  
 NT3 acid anhydrases  
 NT4 gtp-ases  
 NT4 phosphohydrolases  
 NT5 atp-ase  
 NT3 esterases  
 NT4 carboxylesterases  
 NT5 cholinesterase  
 NT5 lipases  
 NT4 phosphatases  
 NT5 acid phosphatase  
 NT5 alkaline phosphatase  
 NT5 nucleotidases  
 NT4 phosphodiesterases  
 NT5 nucleases  
 NT6 dna-ase  
 NT7 endonucleases  
 NT6 rna-ase  
 NT3 glycosyl hydrolases  
 NT4 o-glycosyl hydrolases  
 NT5 amylase

NT5 cellulase  
 NT5 galactosidase  
 NT5 glucosidase  
 NT5 glucuronidase  
 NT5 hyaluronidase  
 NT5 lysozyme  
 NT5 xylanase  
 NT3 non-peptide c-n hydrolases  
 NT4 amidases  
 NT5 arginase  
 NT5 urease  
 NT4 amidinases  
 NT3 peptide hydrolases  
 NT4 acid proteinases  
 NT5 pepsin  
 NT4 aminopeptidases  
 NT4 carboxypeptidases  
 NT4 nonspecific peptidases  
 NT5 renin  
 NT5 urokinase  
 NT4 serine proteinases  
 NT5 chymotrypsin  
 NT5 fibrinolysin  
 NT5 kallikrein  
 NT5 thrombin  
 NT5 trypsin  
 NT4 sh-proteinases  
 NT5 cathepsins  
 NT5 papain  
 NT5 streptococcal proteinase  
 NT2 isomerases  
 NT2 ligases  
 NT2 lyases  
 NT3 carbon-carbon lyases  
 NT4 aldehyde-lyases  
 NT4 aldolases  
 NT4 carboxy-lyases  
 NT5 carboxylase  
 NT5 decarboxylases  
 NT5 ribulose diphosphate carboxylase  
 NT3 carbon-oxygen lyases  
 NT4 hyaluronidase  
 NT4 hydro-lyases  
 NT5 carbonic anhydrase  
 NT3 cyclases  
 NT3 dna methylases  
 NT2 oxidoreductases  
 NT3 amine oxidases  
 NT3 aryl 4-monooxygenase  
 NT3 diaphorase  
 NT3 hemiacetal dehydrogenases  
 NT4 alcohol dehydrogenase  
 NT4 lactate dehydrogenase  
 NT3 hydrogenases  
 NT3 hydroxylases  
 NT4 tyrosinase  
 NT3 nitro-group dehydrogenases  
 NT4 nitrogenase  
 NT3 oxidases  
 NT4 cytochrome oxidase  
 NT4 luciferase  
 NT3 oxygenases  
 NT4 mixed-function oxidases  
 NT3 peroxidases  
 NT4 catalase  
 NT3 superoxide dismutase  
 NT2 transferases  
 NT3 carbon-group transferases  
 NT4 methyl transferases  
 NT3 glycosyl transferases  
 NT4 hexosyl transferases  
 NT4 pentosyl transferases  
 NT5 hypoxanthine phosphoribosyltransferase  
 NT3 nitrogen transferases  
 NT4 aminotransferases  
 NT3 phosphorus-group transferases  
 NT4 nucleotidyltransferases

NT5 polymerases  
 NT6 dna polymerases  
 NT6 rna polymerases  
 NT4 phosphotransferases  
 NT5 hexokinase  
 NT1 gelatin  
 NT1 globins  
 NT2 hemoglobin  
 NT3 methemoglobin  
 NT2 myoglobin  
 NT1 globulins  
 NT2 angiotensin  
 NT2 fibrinogen  
 NT2 globulins-alpha  
 NT3 ceruloplasmin  
 NT3 haptoglobins  
 NT2 globulins-beta  
 NT3 transferrin  
 NT2 globulins-gamma  
 NT2 immunoglobulins  
 NT2 lactoferrin  
 NT2 myosin  
 NT2 thyroglobulin  
 NT1 glycoproteins  
 NT2 avidin  
 NT2 glucoproteins  
 NT3 lactoferrin  
 NT3 ovalbumin  
 NT2 luteinizing hormone  
 NT1 growth factors  
 NT2 lymphokines  
 NT3 interferon  
 NT1 heat-shock proteins  
 NT1 histones  
 NT1 lipoproteins  
 NT2 apolipoproteins  
 NT2 myelin  
 NT1 membrane proteins  
 NT2 porins  
 NT2 receptors  
 NT2 thylakoid membrane proteins  
 NT3 phycoobiliproteins  
 NT4 phycocyanin  
 NT1 metalloproteins  
 NT2 ceruloplasmin  
 NT2 ferredoxin  
 NT2 ferritin  
 NT2 hemocyanin  
 NT2 hemosiderin  
 NT2 lactoferrin  
 NT2 metallothionein  
 NT2 rubredoxin  
 NT2 transferrin  
 NT1 mucoproteins  
 NT2 haptoglobins  
 NT2 intrinsic factor  
 NT2 phytohemagglutinin  
 NT1 nucleoproteins  
 NT1 pbi  
 NT1 peptide hormones  
 NT2 calcitonin  
 NT2 erythropoietin  
 NT2 gastrin  
 NT2 glucagon  
 NT2 insulin  
 NT2 leptin  
 NT2 parathormone  
 NT2 pituitary hormones  
 NT3 acth  
 NT3 gonadotropins  
 NT4 fsh  
 NT4 hcg  
 NT4 lth  
 NT4 luteinizing hormone  
 NT3 liberins  
 NT4 lh-rh  
 NT3 oxytocin  
 NT3 sth  
 NT3 tsh

- NT3 vasopressin
- NT2 secretin
- NT2 thyroid hormones
- NT3 diiodothyronine
- NT3 thyrocalcitonin
- NT3 thyroxine
- NT3 triiodothyronine
- NT2 thyronine
- NT2 trh
- NT1 peptides
- NT2 cyclosporine
- NT2 glycylglycine
- NT2 polypeptides
- NT3 calcitonin
- NT3 endorphins
- NT4 enkephalins
- NT3 endothelins
- NT3 gastrin
- NT3 glucagon
- NT3 glutathione
- NT3 kinins
- NT4 bradykinin
- NT3 leptin
- NT1 peptone
- NT1 phosphoproteins
- NT1 phytochromes
- NT2 chlorophyll
- NT1 protamines
- NT1 rhodopsin
- NT1 scleroproteins
- NT2 collagen
- NT2 fibrin
- NT2 glutin
- NT2 keratin
- NT1 transcription factors
- NT1 tropomyosin
- NT1 zein
- RT amino acid sequence
- RT amino acids
- RT blood plasma
- RT cpb
- RT dialysis
- RT food
- RT microtubules
- RT peanuts
- RT polyamides
- RT post-translation modification
- RT protein denaturation
- RT protein structure
- RT proteolysis
- RT single cell protein

**proteolipids**

- USE lipoproteins

**PROTEOLYSIS**

- \*BT1 decomposition
- NT1 fibrinolysis
- RT catabolism
- RT clostridium
- RT peptide hydrolases
- RT post-translation modification
- RT proteins

**PROTEUS**

- \*BT1 bacteria
- RT feces
- RT soils

**PROTEUS REACTOR**

*Eidgenoessisches Institut fuer Reaktorforschung, Wuerlingen, Argovie, Switzerland.*

- UF *wuerenlingen proteus reactor*
- \*BT1 enriched uranium reactors
- \*BT1 graphite moderated reactors
- \*BT1 research reactors
- \*BT1 test reactors

**PROTHROMBIN**

- \*BT1 blood coagulation factors

**protium**

*INIS: 1975-09-01; ETDE: 2002-04-26*  
 USE hydrogen 1

**PROTO-CLEO STELLARATORS**

- \*BT1 stellarators
- RT cleo stellarator

**PROTON-ANTINEUTRON INTERACTIONS**

(Prior to February 1995 ANTINEUTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

- UF *antineutron-deuteron interactions*
- \*BT1 nucleon-antinucleon interactions

**PROTON-ANTI-PROTON INTERACTIONS**

(From January 1975 till May 1996 antiproton-deuteron interactions was a valid ETDE descriptor.)

- UF *antiproton-deuteron interactions*
- UF *antiproton-proton interactions*
- \*BT1 nucleon-antinucleon interactions

**proton-atom collisions**

*INIS: 1984-04-04; ETDE: 2002-04-26*  
 USE hydrogen ions 1 plus  
 USE ion-atom collisions

**PROTON BEAMS**

- \*BT1 nucleon beams
- RT electron cooling
- RT proton channeling
- RT proton probes
- RT protons

**proton blocking**

- USE proton channeling

**PROTON CHANNELING**

- UF *proton blocking*
- BT1 channeling
- RT proton beams

**PROTON COMPUTED TOMOGRAPHY**

*INIS: 1980-04-02; ETDE: 1981-04-17*  
 UF *proton scanners (tomography)*  
 \*BT1 computerized tomography  
 RT biomedical radiography  
 RT image scanners  
 RT proton radiography

**PROTON CONDUCTIVITY**

*2007-05-16*  
 \*BT1 ionic conductivity

**proton decay (nuclear decay)**

*INIS: 1985-03-19; ETDE: 2002-04-26*  
*Emission of protons from ground states of nuclei.*  
 USE proton-emission decay

**proton decay (particle decay)**

*INIS: 1985-03-19; ETDE: 2002-04-26*  
*Decay of the proton. Coordinate the descriptor below with a descriptor for the decay, e.g. SEMILEPTONIC DECAY.*  
 USE protons

**PROTON DECAY RADIOISOTOPES**

*INIS: 1995-02-27; ETDE: 1984-12-27*  
 \*BT1 radioisotopes

- NT1 aluminium 21
- NT1 argon 30
- NT1 arsenic 62
- NT1 arsenic 63
- NT1 arsenic 64
- NT1 bismuth 185
- NT1 calcium 34
- NT1 cesium 112

- NT1 cesium 113
- NT1 chlorine 28
- NT1 chlorine 29
- NT1 chlorine 30
- NT1 cobalt 49
- NT1 cobalt 52
- NT1 cobalt 53
- NT1 copper 52
- NT1 copper 53
- NT1 copper 54
- NT1 europium 130
- NT1 europium 131
- NT1 europium 132
- NT1 fluorine 14
- NT1 germanium 62
- NT1 gold 170
- NT1 gold 171
- NT1 holmium 140
- NT1 holmium 141
- NT1 iodine 109
- NT1 iridium 164
- NT1 iridium 165
- NT1 iron 45
- NT1 lanthanum 117
- NT1 lutetium 150
- NT1 lutetium 151
- NT1 manganese 45
- NT1 nitrogen 10
- NT1 potassium 33
- NT1 potassium 34
- NT1 rhenium 159
- NT1 rhenium 160
- NT1 rubidium 71
- NT1 rubidium 72
- NT1 scandium 36
- NT1 scandium 37
- NT1 scandium 38
- NT1 scandium 39
- NT1 selenium 66
- NT1 sodium 19
- NT1 sulfur 26
- NT1 tantalum 155
- NT1 terbium 135
- NT1 terbium 137
- NT1 terbium 138
- NT1 thallium 176
- NT1 thallium 177
- NT1 thulium 144
- NT1 thulium 145
- NT1 thulium 146
- NT1 thulium 147
- NT1 vanadium 40
- NT1 vanadium 41
- NT1 zinc 54
- NT1 zinc 55
- NT1 zinc 56
- RT proton-emission decay

**PROTON DENSITY**

- UF *density (proton)*
- RT protons

**PROTON DETECTION**

- \*BT1 charged particle detection
- RT proton dosimetry
- RT recoils

**proton-deuteron interactions**

(Prior to May 1996 this was a valid ETDE descriptor.)

- USE proton-neutron interactions
- USE proton-proton interactions

**PROTON DOSIMETRY**

- BT1 dosimetry
- RT proton detection

**PROTON-EMISSION DECAY**

*INIS: 1985-03-19; ETDE: 1984-12-27*

*Emission of protons from ground states of nuclei.*

*UF proton decay (nuclear decay)*

\*BT1 nuclear decay

*RT proton decay radioisotopes*

*RT protons*

**PROTON EXCHANGE MEMBRANE****FUEL CELLS**

*INIS: 2000-04-12; ETDE: 1999-09-09*

*UF polymer electrolyte fuel cells*

\*BT1 solid electrolyte fuel cells

*RT direct methanol fuel cells*

*RT regenerative fuel cells*

**proton halos**

*1995-07-03*

*USE nuclear halos*

**proton-induced x-ray emission analysis**

*INIS: 1993-11-09; ETDE: 1980-10-07*

*USE pixe analysis*

**proton magnetic resonance spectra**

*INIS: 1993-11-09; ETDE: 2002-04-26*

*USE nmr spectra*

*USE protons*

**PROTON MICROPROBE ANALYSIS**

*INIS: 1979-04-27; ETDE: 1978-09-11*

BT1 microanalysis

\*BT1 nondestructive analysis

*RT proton probes*

**proton-molecule collisions**

*INIS: 1984-04-04; ETDE: 2002-04-26*

*USE hydrogen ions 1 plus*

*USE ion-molecule collisions*

**PROTON-NEUTRON INTERACTIONS**

(From February 1975 till May 1996

NEUTRON-DEUTERON INTERACTIONS

and PROTON-DEUTERON

INTERACTIONS were valid descriptors.)

*UF neutron-deuteron interactions*

*UF proton-deuteron interactions*

\*BT1 proton-nucleon interactions

**PROTON-NUCLEON INTERACTIONS**

*1986-04-04*

(Prior to April 1986 the coordination of

PROTON-NEUTRON INTERACTIONS and

PROTON-PROTON INTERACTIONS was

used for this concept.)

\*BT1 nucleon-nucleon interactions

NT1 proton-neutron interactions

NT1 proton-proton interactions

**PROTON PRECESSION MAGNETOMETERS**

\*BT1 magnetometers

**PROTON PRECIPITATION**

BT1 charged-particle precipitation

*RT aurorae*

*RT auroral oval*

*RT midday aurorae*

*RT polar cusp*

*RT radiation belts*

*RT trapped protons*

**PROTON PROBES**

*INIS: 1978-04-21; ETDE: 1976-09-28*

BT1 probes

*RT ion probes*

*RT proton beams*

*RT proton microprobe analysis*

**proton-proton cycle**

*INIS: 1978-11-24; ETDE: 1980-07-23*

*USE hydrogen burning*

**PROTON-PROTON INTERACTIONS**

(From February 1975 till May 1996

PROTON-DEUTERON INTERACTIONS

was a valid ETDE descriptor.)

*UF proton-deuteron interactions*

\*BT1 proton-nucleon interactions

**PROTON RADIOGRAPHY**

*INIS: 1976-08-17; ETDE: 1975-07-29*

\*BT1 industrial radiography

*RT biomedical radiography*

*RT proton computed tomography*

**PROTON REACTIONS**

*UF pige analysis*

\*BT1 charged-particle reactions

\*BT1 nucleon reactions

**PROTON RECOIL DETECTORS**

\*BT1 neutron detectors

*RT proportional counters*

*RT radiator counters*

*RT recoils*

*RT scintillation counters*

**PROTON SATELLITES**

BT1 satellites

*RT interkosmos satellites*

*RT kosmos satellites*

**proton scanners (tomography)**

*INIS: 1984-04-04; ETDE: 2002-04-26*

*USE proton computed tomography*

**PROTON SOURCES**

\*BT1 particle sources

*RT protons*

**PROTON SPECTRA**

BT1 spectra

*RT protons*

**PROTON SPECTROMETERS**

\*BT1 spectrometers

**PROTON TEMPERATURE**

*UF temperature (proton)*

*RT energy*

*RT protons*

**PROTON TRANSPORT**

*UF transport (proton)*

\*BT1 charged-particle transport

**PROTONIUM**

*2000-04-10*

\*BT1 hadronic atoms

*RT antiprotons*

*RT baryonium*

*RT muonium*

*RT positronium*

*RT protons*

**PROTONS**

*UF pmr spectra*

*UF proton decay (particle decay)*

*UF proton magnetic resonance spectra*

\*BT1 nucleons

NT1 antiprotons

NT1 cosmic protons

NT1 delayed protons

NT1 diprotons

NT1 photoprotons

NT1 prompt protons

NT1 solar protons

NT1 trapped protons

*RT hydrogen ions 1 plus*

*RT proton beams*

*RT proton density*

*RT proton-emission decay*

*RT proton sources*

*RT proton spectra*

*RT proton temperature*

*RT protonium*

**PROTOPLANETS**

*RT cosmological models*

*RT planets*

*RT solar nebula*

*RT solar system evolution*

**protoplasts**

*USE plant cells*

**PROTOPORPHYRINS**

BT1 pigments

\*BT1 porphyrins

*RT hemoglobin*

**PROTOSTARS**

*RT cosmological models*

*RT origin*

*RT star accretion*

*RT stars*

**prototype a terre**

*2000-04-12*

*USE pat reactor*

**prototype fast reactor downreay**

*2000-04-12*

*USE pfr reactor*

**prototype fast reactor japan**

*USE monju reactor*

**prototype large breeder reactor**

*INIS: 1993-11-09; ETDE: 1977-08-24*

*USE plbr reactor*

**PROTOZOA**

\*BT1 invertebrates

BT1 microorganisms

NT1 ciliata

NT2 paramecium

NT2 tetrahymena

NT1 mastigophora

NT2 dinoflagellate

NT2 euglena

NT2 trypanosoma

NT1 sarcodina

NT2 amoeba

NT2 foraminifera

NT1 sporozoa

NT2 babesidae

NT2 plasmodium

*RT parasites*

*RT plankton*

*RT zooplankton*

**protracted irradiation**

*USE chronic irradiation*

**provincial government**

*INIS: 1980-11-07; ETDE: 2002-04-26*

*USE state government*

**PROXIMITY EFFECT**

*RT superconductivity*

**PROXIMITY SCATTERING**

*1986-04-04*

*Mutual scatterings of two outgoing particles*

*from sequential nuclear reactions.*

BT1 scattering

*RT final-state interactions*

*RT nuclear reactions*



**PRPR REACTOR**

*Univ. of Puerto Rico, College Station, Mayaguez, Puerto Rico, USA. Shut down in 1976.*

- UF mayaguez puerto rico pool reactor  
 UF puerto rico pool type reactor  
 \*BT1 pool type reactors  
 \*BT1 triga type reactors

**PRR-1 REACTOR**

*Quezon City, Philippines.*

- UF philippine research reactor-1  
 UF quezon philippine reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors

**PRR REACTOR**

*United Nuclear Corp., Pawling, New York, USA. Shut down in 1971.*

- UF nda remote experiment station  
 UF pawling research reactor  
 UF platr reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**PRTR REACTOR**

*Richland, Washington, USA.*

- UF plutonium recycle test reactor  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 pressure tube reactors  
 \*BT1 research reactors

**PRUDHOE BAY**

*INIS: 1992-01-09; ETDE: 1977-06-02*

- \*BT1 bays  
 \*BT1 beaufort sea  
 RT alaska

**prussian blue**

*ETDE: 2002-04-26*

- USE ferrocyanides  
 USE potassium compounds

**PS SOLAR CELLS**

*INIS: 2000-04-12; ETDE: 1981-07-18*

- UF polymer-semiconductor solar cells  
 \*BT1 solar cells  
 RT organic solar cells

**psd**

*INIS: 2000-04-12; ETDE: 1979-07-24*

*Prevention of Significant Deterioration. US pollution regulation.*

(Prior to March 1997 PREVENTION OF SIGNIFICANT DETERIORATION was used for this concept in ETDE.)

- SEE air pollution abatement  
 SEE land pollution abatement  
 SEE water pollution abatement

**PSE REACTOR**

*Savannah River Plant, Aiken, South Carolina, USA.*

- UF pressurized subcritical experiment savannah  
 UF savannah pressurized subcritical experiment

- \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 natural uranium reactors  
 \*BT1 subcritical assemblies  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**PSEUDOMONAS**

- \*BT1 bacteria

**pseudoparticles**

*INIS: 2000-04-12; ETDE: 1977-11-29*  
 USE instantons

**PSEUDOSCALAR ANTIMESONS**

*1999-03-05*

- \*BT1 antimesons  
 \*BT1 pseudoscalar mesons  
 NT1 anti-b neutral mesons  
 NT1 anti-d neutral mesons

**PSEUDOSCALAR MESONS**

*1995-08-07*

*Mesons with spin and parity 0-.*

- \*BT1 mesons  
 NT1 b c mesons  
 NT1 b mesons  
 NT2 b minus mesons  
 NT2 b neutral mesons  
 NT3 anti-b neutral mesons  
 NT2 b plus mesons  
 NT1 b s mesons  
 NT1 d mesons  
 NT2 d minus mesons  
 NT2 d neutral mesons  
 NT3 anti-d neutral mesons  
 NT2 d plus mesons  
 NT1 d s mesons  
 NT1 eta-1295 mesons  
 NT1 eta-1440 mesons  
 NT1 eta c-2980 mesons  
 NT1 eta mesons  
 NT1 eta prime-958 mesons  
 NT1 k-1460 mesons  
 NT1 k-1830 mesons  
 NT1 kaons  
 NT2 antikaons  
 NT3 antikaons neutral  
 NT2 cosmic kaons  
 NT2 kaons minus  
 NT2 kaons neutral  
 NT3 antikaons neutral  
 NT3 kaons neutral long-lived  
 NT3 kaons neutral short-lived  
 NT2 kaons plus  
 NT1 pi-1300 mesons  
 NT1 pi-1770 mesons  
 NT1 pions  
 NT2 cosmic pions  
 NT2 pions minus  
 NT2 pions neutral  
 NT2 pions plus  
 NT1 pseudoscalar antimesons  
 NT2 anti-b neutral mesons  
 NT2 anti-d neutral mesons  
 RT meson nonets  
 RT sigma model

**PSEUDOSCALARS**

- RT scalars

**PSEUDOVECTOR COUPLING**

- BT1 coupling  
 RT nucleons

**pseudovector mesons**

*INIS: 1987-12-21; ETDE: 1988-01-25*  
 USE axial vector mesons

**psi-3105 resonances**

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

- USE j psi-3097 mesons

**PSI-3685 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*

(Prior to December 1987 this concept was indexed by PSI-3695 RESONANCES.)

- UF psi-3695 resonances  
 \*BT1 charmonium

- \*BT1 vector mesons

**psi-3695 resonances**

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

- USE psi-3685 mesons

**PSI-3770 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*

(Prior to December 1987 this concept was indexed by PSI-3772 RESONANCES.)

- UF psi-3772 resonances  
 \*BT1 charmonium  
 \*BT1 vector mesons

**psi-3772 resonances**

*INIS: 1987-12-21; ETDE: 1978-04-06*

(Prior to December 1987 this was a valid descriptor.)

- USE psi-3770 mesons

**psi-4028 resonances**

*INIS: 1987-12-21; ETDE: 1978-07-06*

(Prior to December 1987 this was a valid descriptor.)

- USE psi-4040 mesons

**psi-4030 mesons**

*INIS: 1995-08-07; ETDE: 1988-02-01*

(From December 1987 until July 1995 this was a valid term.)

- USE psi-4040 mesons

**PSI-4040 MESONS**

*1995-08-07*

(Until December 1987 this concept was indexed by PSI-4028 RESONANCES; from then until July 1995 it was indexed by PSI-4030 MESONS.)

- UF psi-4028 resonances  
 UF psi-4030 mesons  
 \*BT1 charmonium  
 \*BT1 vector mesons

**psi-4100 resonances**

*INIS: 1987-12-21; ETDE: 1975-10-28*

(Prior to December 1987 this was a valid descriptor.)

- USE psi-4160 mesons

**PSI-4160 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*

(Prior to December 1987 this concept was indexed by PSI-4100 RESONANCES.)

- UF psi-4100 resonances  
 \*BT1 charmonium  
 \*BT1 vector mesons

**psi-4300 resonances**

*INIS: 1988-03-08; ETDE: 1975-12-16*

(Prior to December 1987 this was a valid descriptor.)

- USE mesons

**psi-4414 resonances**

*INIS: 1987-12-21; ETDE: 1978-07-06*

(Prior to December 1987 this was a valid descriptor.)

- USE psi-4415 mesons

**PSI-4415 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*

(Prior to December 1987 this concept was indexed by PSI-4414 RESONANCES.)

- UF psi-4414 resonances  
 \*BT1 charmonium  
 \*BT1 vector mesons

**psi resonances**

INIS: 1988-03-08; ETDE: 1976-11-02  
(Prior to December 1987 this was a valid descriptor.)  
USE mesons

**PSORALEN**

\*BT1 anticoagulants  
\*BT1 heterocyclic compounds  
\*BT1 organic oxygen compounds  
RT benzofurans  
RT coumarin

**PSORIASIS**

\*BT1 skin diseases  
RT skin

**psr reactor**

USE pstr reactor

**PSS METHOD**

*Perturbed stationary states method.*  
UF *perturbed stationary states method*  
RT collisions

**PSTR REACTOR**

*Pennsylvania State Univ., University Park, Pennsylvania, USA.*  
UF *pennsylvania state triga reactor*  
UF *pennsylvania state university research reactor*  
UF *psr reactor*  
UF *triga-pennsylvania reactor*  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors  
\*BT1 triga type reactors

**psychoactive agents**

INIS: 2000-04-12; ETDE: 1981-04-20  
USE psychotropic drugs

**psychology**

INIS: 2000-03-28; ETDE: 1980-03-04  
(Prior to March 1997 this was a valid ETDE descriptor.)  
SEE behavior  
SEE human factors

**psychoses**

USE mental disorders

**PSYCHOTROPIC DRUGS**

UF *psychoactive agents*  
\*BT1 central nervous system agents  
NT1 antidepressants  
NT2 cocaine  
NT2 imipramine  
NT1 hallucinogens  
NT2 bufotenine  
NT1 tranquilizers  
NT2 chlorpromazine  
NT2 reserpine  
RT analeptics  
RT mental disorders

**psychrometry**

INIS: 2000-04-12; ETDE: 1981-11-24  
*The science and techniques associated with measurements of the water vapor content of air or other gases. See also HUMIDITY and/or MOISTURE.*  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE hygrometry

**PTERIDINES**

UF *pterins*  
\*BT1 azaarenes  
NT1 aminopterin  
NT1 folic acid

RT pyrazines  
RT pyrimidines

**pterins**

USE pteridines

**pteroylglutamic acid**

USE folic acid

**PTF-UNC REACTOR**

*United Nuclear Corp., Elmsford, New York, USA.*  
UF *proof test facility united nuclear corporation*  
UF *united nuclear corporation proof test reactor*  
\*BT1 zero power reactors

**ptfe**

2000-04-12  
USE polytetrafluoroethylene

**PTR REACTOR**

*AECL, Chalk River, Ontario, Canada.*  
UF *chalk river pool test reactor*  
UF *pool test reactor chalk river*  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors

**PUBLIC ANXIETY**

INIS: 1991-12-11; ETDE: 1992-01-24  
RT accidents  
RT attitudes  
RT behavior  
RT nuclear facilities  
RT sociology

**public attitudes**

INIS: 1978-01-13; ETDE: 1977-07-23  
USE public opinion

**PUBLIC BUILDINGS**

INIS: 1992-05-18; ETDE: 1978-10-23  
*Government-owned buildings.*  
UF *county buildings*  
UF *court buildings*  
UF *fire stations*  
UF *jails*  
UF *municipal buildings*  
UF *senior centers*  
UF *state buildings*  
UF *visitor centers*  
BT1 buildings  
RT government buildings  
RT hospitals  
RT libraries  
RT office buildings  
RT school buildings  
RT skating rinks

**public corporations**

INIS: 2000-04-12; ETDE: 1979-07-24  
USE public enterprises

**PUBLIC ENTERPRISES**

INIS: 1992-04-02; ETDE: 1979-07-24  
*Government-owned enterprises.*  
UF *national enterprises*  
UF *public corporations*  
UF *state enterprises*  
SF *public transport*  
SF *public transportation systems*  
RT government policies  
RT ownership

**PUBLIC HEALTH**

1982-12-03  
UF *health (public)*  
RT health hazards  
RT human populations  
RT medical establishments

RT preventive medicine  
RT quarantine  
RT radiation protection  
RT water reclamation

**PUBLIC INFORMATION**

INIS: 1994-04-12; ETDE: 1979-12-17  
(Until April 1994 this concept was indexed to PUBLIC RELATIONS.)  
BT1 information  
RT declassification  
RT information dissemination  
RT public relations

**PUBLIC LANDS**

1986-07-09  
*Lands not owned by private persons, corporations, etc.*  
SF *parks*  
NT1 everglades national park  
NT1 natural bridges national monument  
NT1 yellowstone national park  
RT land resources  
RT recreational areas

**PUBLIC LAW**

INIS: 1999-02-18; ETDE: 1992-01-08  
*Body of rules governing state action and relationship with citizens.*  
BT1 laws

**PUBLIC OFFICIALS**

INIS: 1985-09-09; ETDE: 1979-11-23  
BT1 personnel  
NT1 state officials  
RT government policies  
RT local government  
RT national government  
RT political aspects  
RT state government

**PUBLIC OPINION**

INIS: 1978-01-13; ETDE: 1977-07-23  
UF *attitudes of the public*  
UF *nuclear controversy*  
UF *public attitudes*  
SF *surveys*  
NT1 environmental awareness  
RT aesthetics  
RT attitudes  
RT ethical aspects  
RT political aspects  
RT public relations

**PUBLIC POLICY**

INIS: 1998-01-28; ETDE: 1979-05-25  
*Body of rules governing State action and relationship with citizens.*  
(Until March 1992, this concept was indexed by PUBLIC LAW.)  
RT government policies  
RT institutional factors  
RT laws  
RT legal aspects  
RT legislation  
RT political aspects  
RT regulations

**PUBLIC RELATIONS**

UF *nuclear contestation*  
RT advertising  
RT aesthetics  
RT consumer protection  
RT hazards  
RT management  
RT public information  
RT public opinion  
RT safety analysis  
RT sociology

**public service newbold island-1 reactor**

ETDE: 2002-04-26

USE newbold island-1 reactor

**public service newbold island-2 reactor**

ETDE: 2002-04-26

USE newbold island-2 reactor

**public transport**

2004-08-26

SEE public enterprises

SEE transport

**public transportation systems**

INIS: 1992-09-09; ETDE: 1992-06-12

SEE mass transit systems

SEE public enterprises

**PUBLIC UTILITIES**

1976-01-28

*A business organization performing some public service and subject to special government regulation.*

SF utilities

NT1 electric utilities

NT1 gas utilities

NT1 water utilities

RT afudc

RT cwip

RT electric power

RT fuel adjustment mechanisms

RT fuel gas

RT integrated energy utility systems

RT marginal-cost pricing

RT modular integrated utility systems

RT natural gas

RT off-peak power

RT peak-load pricing

RT sellback

RT telephones

RT us public utility regulatory policies act

RT water supply

**public utility regulatory policies act**

INIS: 2000-04-12; ETDE: 1980-03-29

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us public utility regulatory policies act

**PUERTO RICO**

\*BT1 greater antilles

BT1 latin america

\*BT1 usa

**puerto rico bonus reactor**

USE bonus reactor

**puerto rico nuclear center l-77 reactor**

1993-11-09

USE prnc-l-77 reactor

**puerto rico pool type reactor**

USE prpr reactor

**PUGET SOUND**

INIS: 1992-06-04; ETDE: 1976-04-19

\*BT1 pacific ocean

RT washington

**puget sound naval shipyard**

INIS: 2000-04-12; ETDE: 1977-07-23

(Prior to February 1995, this was a valid ETDE descriptor.)

USE maintenance facilities

USE ships

**pullman washington state university reactor**

1993-11-09

USE wsur reactor

**pulmonary cancer***Use LUNGS and/or BRONCHI, as appropriate, in coordination with the descriptors below.*

USE carcinomas

**pulmonary lavage**

USE lavage

USE lungs

**pulps**

USE slurries

**pulsar concept**

INIS: 2000-04-12; ETDE: 1979-09-26

*Pulsar is a system which produces pulsed power by magnetic flux compression with metallic or plasma armatures.*

(Prior to February 1995, this was a valid ETDE descriptor.)

USE magnetic compression

USE pulse generators

**PULSARS**

BT1 cosmic radio sources

RT crab nebula

RT magnetic stars

RT neutron stars

RT starquakes

RT supernova remnants

**PULSATING VARIABLE STARS**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 variable stars

NT1 cepheids

**PULSATIONS**

UF micropulsations

UF pearl pulsations

RT disturbances

RT oscillations

RT periodicity

RT pulses

RT variations

**PULSATOR DEVICES**

2000-04-12

\*BT1 tokamak devices

**pulsator stellarator**

1994-08-22

(Until August 1994 this was a valid descriptor.)

USE stellarators

**PULSE AMPLIFIERS**

\*BT1 amplifiers

RT cathode followers

RT pulse circuits

RT pulse techniques

**PULSE ANALYZERS**

UF analyzers (pulse)

UF kicksorters

\*BT1 electronic equipment

NT1 multi-channel analyzers

RT pulse circuits

RT pulse discriminators

RT pulse techniques

RT spectrometers

**PULSE CIRCUITS**

BT1 electronic circuits

NT1 multivibrators

NT2 flip-flop circuits

NT1 pulse discriminators

NT1 signal conditioners

NT2 digitizers

NT3 cathode ray tube digitizers

NT3 flying spot digitizers

NT3 scanning measuring projectors

NT3 spiral reader digitizers

NT2 pulse shapers

NT1 trigger circuits

NT2 transistor trigger circuits

RT coincidence circuits

RT counting circuits

RT pulse amplifiers

RT pulse analyzers

RT pulse generators

RT pulse techniques

RT transistor oscillators

**pulse columns**

USE extraction columns

**PULSE COMBUSTION**

INIS: 1997-06-19; ETDE: 1980-08-12

\*BT1 combustion

RT burners

RT combustion chambers

RT combustion control

RT pulse combustors

**PULSE COMBUSTORS**

INIS: 2000-04-12; ETDE: 1980-08-12

BT1 combustors

RT burners

RT combustion chambers

RT combustion control

RT pulse combustion

**PULSE CONVERTERS**

UF converters (pulse)

\*BT1 electronic equipment

NT1 current-to-frequency converters

NT1 time-to-amplitude converters

RT pulse techniques

**PULSE DISCRIMINATORS**

\*BT1 discriminators

\*BT1 pulse circuits

RT pulse analyzers

**PULSE GENERATORS**

UF generators (pulse)

UF pulsar concept

\*BT1 function generators

NT1 high-voltage pulse generators

NT2 marx generators

RT blocking oscillators

RT frequency converters

RT multivibrators

RT plasma switches

RT pulse circuits

RT pulse shapers

RT pulse techniques

**PULSE INTEGRATORS**

UF integrators (pulse)

\*BT1 electronic equipment

RT counting ratemeters

RT pulse techniques

**PULSE PILEUP**

RT time resolution

RT timing properties

**PULSE RISE TIME**

UF rise time

BT1 timing properties

RT peaks

RT pulses

RT time measurement

**PULSE SHAPERS**

UF clipping circuits

UF pulse stretchers

\*BT1 signal conditioners

- RT pulse generators  
RT signal conditioning

**pulse stretchers**

- USE pulse shapers

**PULSE TECHNIQUES**

- RT counting circuits  
RT counting ratemeters  
RT counting techniques  
RT counting tubes  
RT delay circuits  
RT electronic equipment  
RT oscillators  
RT plasma switches  
RT pulse amplifiers  
RT pulse analyzers  
RT pulse circuits  
RT pulse converters  
RT pulse generators  
RT pulse integrators  
RT pulses  
RT radiation detection  
RT radiation detectors  
RT resonators  
RT scalars

**pulsed beam deflectors**

2000-04-12

- USE beam pulsers

**PULSED D-T REACTORS**

- \*BT1 d-t reactors  
\*BT1 pulsed fusion reactors  
NT1 reference theta pinch reactor

**PULSED FUSION REACTORS**

- BT1 thermonuclear reactors  
NT1 pulsed d-t reactors  
NT2 reference theta pinch reactor  
RT direct drive laser implosion  
RT indirect drive laser implosion  
RT laser implosions

**pulsed graphite reactor**

INIS: 2003-11-26; ETDE: 2003-12-03  
Kurchatov city, East Kazakhstan.

- USE igr reactor

**PULSED IRRADIATION**

- BT1 irradiation  
RT beam pulsers  
RT dose rates  
RT temporal dose distributions

**PULSED MAGNET COILS**

- \*BT1 magnet coils

**PULSED MHD GENERATORS**

INIS: 1993-04-27; ETDE: 1977-05-07

MHD generators driven by explosives, shock tubes, plasma jets, etc.

- UF explosively-driven mhd generators  
\*BT1 mhd generators

**PULSED NEUTRON TECHNIQUES**

- RT neutron beams  
RT neutron guides  
RT pulses

**PULSED REACTORS**

- UF burst reactors  
BT1 reactors  
NT1 acpr reactor  
NT1 aprf reactor  
NT1 atpr reactor  
NT1 bigr reactor  
NT1 bir reactor  
NT1 fbrf reactor  
NT1 fir-1 reactor  
NT1 gidra reactor  
NT1 hector reactor

- NT1 hpr reactor  
NT1 ibr-2 reactor  
NT1 ibr-30 reactor  
NT1 igr reactor  
NT1 kalpakkam pfr reactor  
NT1 nsrr reactor  
NT1 ostr reactor  
NT1 pbf reactor  
NT1 sora reactor  
NT1 spr-2 reactor  
NT1 spr-3 reactor  
NT1 spr-4 reactor  
NT1 super kukla reactor  
NT1 tibr reactor  
NT1 triga-1-california reactor  
NT1 triga-1-michigan reactor  
NT1 triga-2-bangladesh reactor  
NT1 triga-2-illinois reactor  
NT1 triga-2-kansas reactor  
NT1 triga-2-mainz reactor  
NT1 triga-2-pavia reactor  
NT1 triga-2-pitesti reactor  
NT1 triga-3-munich reactor  
NT1 triga-texas reactor  
NT1 ucbr reactor  
NT1 viper reactor  
NT1 wsur reactor  
NT1 xapr reactor  
RT reactivity insertions

**PULSES**

1999-07-01

Not for edible seeds of leguminous crops.

- UF electric pulses  
UF impulse  
UF impulse (pulses)  
NT1 electromagnetic pulses  
NT2 internal electromagnetic pulses  
RT beam pulsers  
RT electrocardiograms  
RT pulsations  
RT pulse rise time  
RT pulse techniques  
RT pulsed neutron techniques  
RT signals  
RT surges

**PULSTAR-BUFFALO REACTOR**

State Univ. of New York, Buffalo, New York, USA.

- UF buffalo pulstar reactor  
UF buspr reactor  
UF western new york nuclear research reactor

- \*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors

**PULSTAR-RALEIGH REACTOR**

North Carolina State Univ., Raleigh, North Carolina, USA.

- UF ncuspr reactor  
UF north carolina pulstar reactor  
UF raleigh pulstar reactor  
\*BT1 pool type reactors  
\*BT1 research reactors

**pulverization**

INIS: 1992-02-18; ETDE: 1978-04-27

- USE comminution

**pulverized fuel ash**

INIS: 2000-04-12; ETDE: 1977-06-24

- USE fly ash

**PULVERIZED FUELS**

INIS: 1999-07-09; ETDE: 1985-04-09

- RT coal fines  
RT powders  
RT solid fuels

**PULVERIZERS**

INIS: 1992-04-03; ETDE: 1978-08-07

- \*BT1 machinery  
RT comminution  
RT crushing  
RT fuel feeding systems

**pumice**

2000-04-12

A light-colored, vesicular, glassy rock commonly having the composition of a rhyolite.

(Prior to March 1997 this was a valid ETDE descriptor.)

- SEE abrasives  
SEE rhyolites

**PUMP TURBINES**

INIS: 1992-02-19; ETDE: 1980-01-24

Reversible hydraulic turbines.

UF reversible turbines

UF turbine pumps

- \*BT1 hydraulic turbines  
RT pumped storage  
RT pumped storage power plants

**PUMPED LIMITERS**

INIS: 1986-07-09; ETDE: 1985-10-25

- BT1 limiters  
RT helium ash

**PUMPED STORAGE**

1982-12-07

- \*BT1 energy storage  
RT hydroelectric power plants  
RT off-peak energy storage  
RT pump turbines  
RT pumped storage power plants  
RT pumping

**PUMPED STORAGE POWER PLANTS**

INIS: 1992-10-01; ETDE: 1976-05-13

- \*BT1 hydroelectric power plants  
\*BT1 peaking power plants  
RT hydroelectric power  
RT pump turbines  
RT pumped storage  
RT water reservoirs

**pumpherson retort**

INIS: 2000-04-12; ETDE: 1975-11-11

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE retorts

**PUMPING**

1999-08-26

- SF laser pumping  
NT1 electrical pumping  
NT2 electron beam pumping  
NT1 nuclear pumping  
NT1 optical pumping  
RT circulating systems  
RT drawdown  
RT materials handling  
RT pumped storage  
RT pumps  
RT self-pumping systems

**pumping (electrical)**

INIS: 1995-04-10; ETDE: 2002-04-26

- USE electrical pumping

**pumping (laser)**

INIS: 1975-11-07; ETDE: 2002-04-26

- USE optical pumping

**pumping (nuclear)**

INIS: 1975-11-07; ETDE: 2002-04-26

- USE nuclear pumping

**PUMPS**

UF *hydraulic rams*  
 BT1 equipment  
 NT1 centrifugal pumps  
 NT1 electromagnetic pumps  
 NT1 rod pumps  
 NT1 vacuum pumps  
 NT2 cryopumps  
 NT2 sputter-ion pumps  
 NT2 turbomolecular pumps  
 NT1 water pumps  
 NT2 solar water pumps  
 NT1 wind-powered pumps  
 RT automotive accessories  
 RT bellows  
 RT blowers  
 RT circulating systems  
 RT compressors  
 RT heat pumps  
 RT pumping  
 RT reactor components  
 RT reactor cooling systems  
 RT self-pumping systems  
 RT turbomachinery

**punched cards**

1994-08-22  
 (Until August 1994 this was a valid descriptor.)  
 USE memory devices

**PUNCHED TAPES**

RT memory devices

**PUPAE**

RT age groups  
 RT insects  
 RT life cycle  
 RT metamorphosis

**PUR-1 REACTOR**

2005-01-19  
*Purdue Univ., West Lafayette, Indiana, USA.*  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**purasiv s process**

INIS: 2000-04-12; ETDE: 1977-12-22  
*Fixed-bed sulfur dioxide adsorption process using molecular sieve.*  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**PUREX PROCESS**

1996-07-08  
 (Prior to 1996 HALEX PROCESS and SALTEX PROCESS were valid ETDE descriptors.)  
 UF *halax process*  
 UF *saltex process*  
 \*BT1 reprocessing  
 RT solvent extraction

**PURIFICATION**

NT1 hot gas cleanup  
 RT cleaning  
 RT coolant cleanup systems  
 RT crystallization  
 RT deashing  
 RT decontamination  
 RT enrichment  
 RT impurities  
 RT refining  
 RT scrubbing  
 RT separation processes

**PURINES**

\*BT1 azaarenes

NT1 adenines  
 NT2 kinetin  
 NT1 guanine  
 NT1 guanosine  
 NT1 hypoxanthine  
 NT1 inosine  
 NT1 mercaptopurine  
 NT1 xanthines  
 NT2 caffeine  
 NT2 theobromine  
 NT2 theophylline  
 NT2 uric acid  
 RT nucleosides

**PURISOL PROCESS**

2000-04-12  
*Process for removal of acid gases from syngas and natural gas streams using physical absorption in n-methylpyrrolidone (nmp).*  
 \*BT1 desulfurization

**purity**

USE impurities

**purnima-1 reactor**

INIS: 1981-11-27; ETDE: 1982-01-07  
 USE purnima reactor

**PURNIMA-2 REACTOR**

INIS: 1981-10-15; ETDE: 1981-11-10  
 \*BT1 fast reactors  
 \*BT1 zero power reactors

**PURNIMA-3 REACTOR**

INIS: 1993-03-11; ETDE: 1993-04-16  
*Bhabha Atomic Research Center, Bombay, India.*  
 \*BT1 research and test reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**PURNIMA REACTOR**

UF *purnima-1 reactor*  
 \*BT1 fast reactors  
 \*BT1 zero power reactors

**PUROMYCIN**

\*BT1 antibiotics  
 \*BT1 antineoplastic drugs

**PUROX PYROLYSIS PROCESS**

INIS: 2000-04-12; ETDE: 1975-11-26  
*Union carbide process for pyrolysis of solid wastes using pure oxygen to supply high temperature zone for production of low btu gas that can be upgraded to high btu gas.*  
 UF *union carbide waste processing system*  
 \*BT1 waste processing  
 RT pyrolysis  
 RT solid wastes  
 RT waste processing plants

**purpa**

INIS: 2000-04-12; ETDE: 1980-03-29  
 USE us public utility regulatory policies act

**PURPURA**

\*BT1 hemic diseases

**purpuric acid**

1996-07-18  
*Also known as murexide.*  
 USE dyes  
 USE organic oxygen compounds  
 USE pyrimidines

**pusan kori-1 reactor**

USE kori-1 reactor

**pusan kori-2 reactor**

INIS: 1986-09-26; ETDE: 1977-04-14  
 USE kori-2 reactor

**pusan kori-3 reactor**

INIS: 1997-01-28; ETDE: 2002-04-26  
 USE kori-3 reactor

**pusan kori-4 reactor**

INIS: 1997-01-28; ETDE: 2002-04-26  
 USE kori-4 reactor

**PUSPATI**

1984-12-04  
 UF *tun ismail atomic research center*  
 UF *unit tenaga nuklear (malaysia)*  
 \*BT1 malaysian organizations

**puspati triga reactor**

1984-12-04  
 USE rtp reactor

**PUTRESCINE**

UF *1,4-diaminobutane*  
 UF *tetramethylenediamine*  
 \*BT1 amines

**PVA**

UF *polyvinyl alcohol*  
 \*BT1 alcohols  
 \*BT1 polyvinyls

**PVC**

UF *polyvinyl chloride*  
 \*BT1 chlorinated aliphatic hydrocarbons  
 \*BT1 polyvinyls

**pvd**

INIS: 2000-04-12; ETDE: 1989-10-11  
 USE physical vapor deposition

**PVP**

UF *polyvinylpyrrolidone*  
 \*BT1 blood substitutes  
 \*BT1 polyvinyls  
 \*BT1 pyrrolidones

**pwba**

USE born approximation

**pwr/241 type reactors**

2000-04-12  
 (Prior to 1975, PWR/241 TYPE REACTORS was used.)  
 USE bw standard reactor

**pwr/41 type reactors**

2000-04-12  
 USE westinghouse standard reactor

**pwr/80 type reactors**

2000-04-12  
 USE ce standard reactor

**PWR TYPE REACTORS**

1997-10-03  
 UF *pressurized water cooled moderated reactor*  
 UF *pressurized water reactors*  
 SF *enrico fermi reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
 NT1 aguirre reactor  
 NT1 almaraz-1 reactor  
 NT1 almaraz-2 reactor  
 NT1 angra-1 reactor  
 NT1 angra-2 reactor  
 NT1 angra-3 reactor  
 NT1 ardennes b-1 reactor

NT1	ardennes b-2 reactor	NT1	doel-3 reactor	NT1	mihama-2 reactor
NT1	ardennes reactor	NT1	doel-4 reactor	NT1	mihama-3 reactor
NT1	arkansas-1 reactor	NT1	efdr-50 reactor	NT1	millstone-2 reactor
NT1	arkansas-2 reactor	NT1	emsland reactor	NT1	millstone-3 reactor
NT1	asco-1 reactor	NT1	erie-1 reactor	NT1	muelheim-kaerlich reactor
NT1	asco-2 reactor	NT1	erie-2 reactor	NT1	mutsu reactor
NT1	atlantic-1 reactor	NT1	farley-1 reactor	NT1	neckar-1 reactor
NT1	atlantic-2 reactor	NT1	farley-2 reactor	NT1	neckar-2 reactor
NT1	basf-1 reactor	NT1	fessenheim-1 reactor	NT1	nep-1 reactor
NT1	basf-2 reactor	NT1	flamanville-1 reactor	NT1	nep-2 reactor
NT1	beaver valley-1 reactor	NT1	flamanville-2 reactor	NT1	neupotz-1 reactor
NT1	beaver valley-2 reactor	NT1	forked river-1 reactor	NT1	neupotz-2 reactor
NT1	bellefonte-1 reactor	NT1	genkai-1 reactor	NT1	nogent sur seine-1 reactor
NT1	bellefonte-2 reactor	NT1	genkai-2 reactor	NT1	nogent sur seine-2 reactor
NT1	belleville sur loire-1 reactor	NT1	genkai-3 reactor	NT1	north anna-1 reactor
NT1	belleville sur loire-2 reactor	NT1	genkai-4 reactor	NT1	north anna-2 reactor
NT1	beznau-1 reactor	NT1	ginna-1 reactor	NT1	north anna-3 reactor
NT1	beznau-2 reactor	NT1	goesgen reactor	NT1	north anna-4 reactor
NT1	biblis-1 reactor	NT1	golfech-1 reactor	NT1	north coast-1 reactor
NT1	biblis-2 reactor	NT1	golfech-2 reactor	NT1	obrigheim reactor
NT1	biblis-3 reactor	NT1	grafenhainfeld reactor	NT1	oconee-1 reactor
NT1	biblis-4 reactor	NT1	gravelines-1 reactor	NT1	oconee-2 reactor
NT1	blayais-1 reactor	NT1	gravelines-2 reactor	NT1	oconee-3 reactor
NT1	blue hills-1 reactor	NT1	gravelines-3 reactor	NT1	oi-1 reactor
NT1	blue hills-2 reactor	NT1	gravelines-4 reactor	NT1	oi-2 reactor
NT1	borssele reactor	NT1	gravelines-5 reactor	NT1	oi-3 reactor
NT1	br-3 reactor	NT1	gravelines-6 reactor	NT1	oi-4 reactor
NT1	braidwood-1 reactor	NT1	greene county reactor	NT1	oktemberyan-2 reactor
NT1	braidwood-2 reactor	NT1	greenwood-2 reactor	NT1	olkiluoto-3 reactor
NT1	brokdorf reactor	NT1	greenwood-3 reactor	NT1	otto hahn reactor
NT1	bugey-2 reactor	NT1	grohnde reactor	NT1	palisades-1 reactor
NT1	bugey-3 reactor	NT1	hamm-uentrop reactor	NT1	palo verde-1 reactor
NT1	bugey-4 reactor	NT1	harris-1 reactor	NT1	palo verde-2 reactor
NT1	bugey-5 reactor	NT1	harris-2 reactor	NT1	palo verde-3 reactor
NT1	bw standard reactor	NT1	harris-3 reactor	NT1	palo verde-4 reactor
NT1	byron-1 reactor	NT1	harris-4 reactor	NT1	palo verde-5 reactor
NT1	byron-2 reactor	NT1	haven-1 reactor	NT1	paluel-1 reactor
NT1	calhoun-1 reactor	NT12	koshkonong-1 reactor	NT1	paluel-2 reactor
NT1	calhoun-2 reactor	NT1	haven-2 reactor	NT1	paluel-3 reactor
NT1	callaway-1 reactor	NT12	koshkonong-2 reactor	NT1	paluel-4 reactor
NT1	callaway-2 reactor	NT1	ikata-2 reactor	NT1	pat reactor
NT1	calvert cliffs-1 reactor	NT1	ikata-3 reactor	NT1	pebble springs-1 reactor
NT1	calvert cliffs-2 reactor	NT1	ikata reactor	NT1	pebble springs-2 reactor
NT1	catawba-1 reactor	NT1	indian point-1 reactor	NT1	penly-1 reactor
NT1	catawba-2 reactor	NT1	indian point-2 reactor	NT1	perkins-1 reactor
NT1	cattenom-1 reactor	NT1	indian point-3 reactor	NT1	perkins-2 reactor
NT1	cattenom-2 reactor	NT1	iran-1 reactor	NT1	perkins-3 reactor
NT1	cattenom-3 reactor	NT1	iran-2 reactor	NT1	philippsburg-2 reactor
NT1	cattenom-4 reactor	NT1	isar-2 reactor	NT1	pilgrim-2 reactor
NT1	ce standard reactor	NT1	jamesport-1 reactor	NT1	pilgrim-3 reactor
NT1	cherokee-1 reactor	NT1	jamesport-2 reactor	NT1	pm-2a reactor
NT1	cherokee-2 reactor	NT1	kewaunee reactor	NT1	pm-3a reactor
NT1	cherokee-3 reactor	NT1	koeberg-1 reactor	NT1	pnpp-1 reactor
NT1	chinon-b1 reactor	NT1	koeberg-2 reactor	NT1	point beach-1 reactor
NT1	civaux-1 reactor	NT1	kori-1 reactor	NT1	point beach-2 reactor
NT1	civaux-2 reactor	NT1	kori-2 reactor	NT1	prairie island-1 reactor
NT1	comanche peak-1 reactor	NT1	kori-3 reactor	NT1	prairie island-2 reactor
NT1	comanche peak-2 reactor	NT1	kori-4 reactor	NT1	qinshan-1 reactor
NT1	connecticut yankee reactor	NT1	krsko reactor	NT1	qinshan-2-1 reactor
NT1	cook-1 reactor	NT1	lemoniz-1 reactor	NT1	qinshan-2-2 reactor
NT1	cook-2 reactor	NT1	lemoniz-2 reactor	NT1	quanicassee-1 reactor
NT1	cruas-2 reactor	NT1	lenin reactor	NT1	quanicassee-2 reactor
NT1	cruas-3 reactor	NT1	leonid brezhnev reactor	NT1	rancho seco-1 reactor
NT1	cruas-4 reactor	NT1	lingao-1 reactor	NT1	remerschen reactor
NT1	crystal river-3 reactor	NT1	lingao-2 reactor	NT1	rheinsberg akw1 reactor
NT1	crystal river-4 reactor	NT1	loft reactor	NT1	ringhals-2 reactor
NT1	dampierre-1 reactor	NT1	lucie-1 reactor	NT1	ringhals-3 reactor
NT1	dampierre-2 reactor	NT1	lucie-2 reactor	NT1	ringhals-4 reactor
NT1	dampierre-3 reactor	NT1	maanshan-1 reactor	NT1	robinson-2 reactor
NT1	dampierre-4 reactor	NT1	maine yankee reactor	NT1	rooppur reactor
NT1	davis besse-1 reactor	NT1	malibu-1 reactor	NT1	rowe yankee reactor
NT1	davis besse-2 reactor	NT1	marble hill-1 reactor	NT1	s1c prototype reactor
NT1	davis besse-3 reactor	NT1	marble hill-2 reactor	NT1	saint alban-1 reactor
NT1	daya bay-1 reactor	NT1	mc guire-1 reactor	NT1	saint alban-2 reactor
NT1	daya bay-2 reactor	NT1	mc guire-2 reactor	NT1	saint laurent-b1 reactor
NT1	diablo canyon-1 reactor	NT1	mh-1a reactor	NT1	salem-1 reactor
NT1	diablo canyon-2 reactor	NT1	midland-1 reactor	NT1	salem-2 reactor
NT1	doel-1 reactor	NT1	midland-2 reactor	NT1	san onofre-1 reactor
NT1	doel-2 reactor	NT1	mihama-1 reactor	NT1	san onofre-2 reactor

NT1 san onofre-3 reactor  
 NT1 savannah reactor  
 NT1 saxton reactor  
 NT1 seabrook-1 reactor  
 NT1 seabrook-2 reactor  
 NT1 selni reactor  
 NT1 sendai-1 reactor  
 NT1 sendai-2 reactor  
 NT1 sequoyah-1 reactor  
 NT1 sequoyah-2 reactor  
 NT1 shippingport reactor  
 NT1 sizewell-b reactor  
 NT1 sm-1 reactor  
 NT1 sm-1a reactor  
 NT1 south texas project-1 reactor  
 NT1 south texas project-2 reactor  
 NT1 stade reactor  
 NT1 sterling-1 reactor  
 NT1 sterling-2 reactor  
 NT1 summer-1 reactor  
 NT1 sundesert-1 reactor  
 NT1 sundesert-2 reactor  
 NT1 surry-1 reactor  
 NT1 surry-2 reactor  
 NT1 surry-3 reactor  
 NT1 surry-4 reactor  
 NT1 takahama-1 reactor  
 NT1 takahama-2 reactor  
 NT1 takahama-3 reactor  
 NT1 takahama-4 reactor  
 NT1 three mile island-1 reactor  
 NT1 three mile island-2 reactor  
 NT1 tihange-2 reactor  
 NT1 tihange-3 reactor  
 NT1 tihange reactor  
 NT1 tomari-1 reactor  
 NT1 tomari-2 reactor  
 NT1 tricastin-1 reactor  
 NT1 tricastin-4 reactor  
 NT1 trillo-1 reactor  
 NT1 trojan reactor  
 NT1 tsuruga-2 reactor  
 NT1 turkey point-3 reactor  
 NT1 turkey point-4 reactor  
 NT1 tva-1 reactor  
 NT1 tva-2 reactor  
 NT1 tyrone-1 reactor  
 NT1 tyrone-2 reactor  
 NT1 ulchin-1 reactor  
 NT1 ulchin-2 reactor  
 NT1 ulchin-3 reactor  
 NT1 ulchin-4 reactor  
 NT1 unterweser reactor  
 NT1 vahnum-1 reactor  
 NT1 vahnum-2 reactor  
 NT1 vandellos-2 reactor  
 NT1 vogtle-1 reactor  
 NT1 vogtle-2 reactor  
 NT1 vogtle-3 reactor  
 NT1 vogtle-4 reactor  
 NT1 waterford-3 reactor  
 NT1 waterford-4 reactor  
 NT1 watts bar-1 reactor  
 NT1 watts bar-2 reactor  
 NT1 westinghouse standard reactor  
 NT1 wnp-1 reactor  
 NT1 wnp-3 reactor  
 NT1 wnp-4 reactor  
 NT1 wnp-5 reactor  
 NT1 wolf creek-1 reactor  
 NT1 wup-3 reactor  
 NT1 wup-4 reactor  
 NT1 wup-5 reactor  
 NT1 wup-6 reactor  
 NT1 wwver type reactors  
 NT2 armenian-1 reactor  
 NT2 armenian-2 reactor  
 NT2 balakovo-1 reactor  
 NT2 balakovo-2 reactor

NT2 balakovo-3 reactor  
 NT2 balakovo-4 reactor  
 NT2 blahutovice-1 reactor  
 NT2 bohunice v-1 reactor  
 NT2 bohunice v-2 reactor  
 NT2 dukovany-1 reactor  
 NT2 dukovany-2 reactor  
 NT2 dukovany-3 reactor  
 NT2 dukovany-4 reactor  
 NT2 greifswald-1 reactor  
 NT2 greifswald-2 reactor  
 NT2 greifswald-3 reactor  
 NT2 greifswald-4 reactor  
 NT2 greifswald-5 reactor  
 NT2 greifswald-6 reactor  
 NT2 juragua-1 reactor  
 NT2 kalinin-1 reactor  
 NT2 kalinin-3 reactor  
 NT2 kecerovce-1 reactor  
 NT2 khmelnitskij-1 reactor  
 NT2 kola-1 reactor  
 NT2 kola-2 reactor  
 NT2 kola-3 reactor  
 NT2 kola-4 reactor  
 NT2 kozloduy-1 reactor  
 NT2 kozloduy-2 reactor  
 NT2 kozloduy-3 reactor  
 NT2 kozloduy-4 reactor  
 NT2 kozloduy-5 reactor  
 NT2 kozloduy-6 reactor  
 NT2 kudankulam-1 reactor  
 NT2 kudankulam-2 reactor  
 NT2 loviisa-1 reactor  
 NT2 loviisa-2 reactor  
 NT2 mochovce-1 reactor  
 NT2 mochovce-2 reactor  
 NT2 novovoronezh-1 reactor  
 NT2 novovoronezh-2 reactor  
 NT2 novovoronezh-3 reactor  
 NT2 novovoronezh-4 reactor  
 NT2 novovoronezh-5 reactor  
 NT2 paks-1 reactor  
 NT2 paks-2 reactor  
 NT2 paks-3 reactor  
 NT2 paks-4 reactor  
 NT2 rovno-1 reactor  
 NT2 rovno-2 reactor  
 NT2 rovno-3 reactor  
 NT2 rovno-4 reactor  
 NT2 rovno-5 reactor  
 NT2 south ukrainian-1 reactor  
 NT2 south ukrainian-2 reactor  
 NT2 south ukrainian-3 reactor  
 NT2 stendal-1 reactor  
 NT2 tatarian reactor  
 NT2 temelin-1 reactor  
 NT2 temelin-2 reactor  
 NT2 tianwan-1 reactor  
 NT2 zaporozhe-1 reactor  
 NT2 zaporozhe-2 reactor  
 NT2 zaporozhe-3 reactor  
 NT2 zaporozhe-4 reactor  
 NT2 zaporozhe-5 reactor  
 NT2 zaporozhe-6 reactor  
 NT1 wyhl-1 reactor  
 NT1 wyhl-2 reactor  
 NT1 yellow creek-1 reactor  
 NT1 yellow creek-2 reactor  
 NT1 yonggwang-1 reactor  
 NT1 yonggwang-2 reactor  
 NT1 yonggwang-3 reactor  
 NT1 yonggwang-4 reactor  
 NT1 zion-1 reactor  
 NT1 zion-2 reactor  
 NT1 zorita-1 reactor

#### PYCNOMETERS

\*BT1 densimeters

#### PYRANOMETERS

2000-04-12

BT1 measuring instruments  
 \*BT1 solar equipment  
 RT photometers  
 RT radiometers  
 RT solar radiation

#### PYRANS

1996-06-28

*Compounds that contain a six-membered heterocyclic ring containing one oxygen atom.*

\*BT1 heterocyclic oxygen compounds  
 NT1 coumarin  
 NT1 hematopylin  
 NT1 pyrones  
 NT1 quercetin  
 NT1 tetrahydropyran

#### PYRAZINES

1996-10-23

*Compounds that contain a six-membered heterocyclic ring containing nitrogen atoms in the 1 and 4 positions.*

UF 1,4-diazines  
 UF neutral red  
 UF toluylene red  
 \*BT1 azines  
 NT1 phenazine  
 NT1 piperazines  
 RT pteridines

#### PYRAZOLES

*Compounds that contain a five-membered heterocyclic ring containing nitrogen atoms in the 1 and 2 positions.*

\*BT1 azoles  
 NT1 indazoles  
 NT1 pyrazolines  
 NT2 antipyrine

#### PYRAZOLINES

UF aminopyrine  
 UF dam  
 UF diantipyrylmethane  
 \*BT1 pyrazoles  
 NT1 antipyrine

#### PYRENE

\*BT1 condensed aromatics  
 \*BT1 hydrocarbons

#### PYREX

\*BT1 borosilicate glass

#### PYRHELIOMETERS

2000-04-12

BT1 measuring instruments  
 \*BT1 solar equipment  
 BT1 telescopes  
 RT solar flux

#### PYRIDAZINES

*Compounds that contain a six-membered heterocyclic ring containing nitrogen atoms in the 1 and 2 positions.*

\*BT1 azines  
 NT1 phthalazines  
 NT2 luminol

#### PYRIDINE

*INIS: 1992-09-18; ETDE: 1992-10-13*  
 (Prior to April 1992 this was a valid ETDE descriptor. From April to October 1992 PYRIDINES was used for this concept in ETDE.)

\*BT1 pyridines

#### pyridineazohydroxynaphthalene

USE pyridylazonaphthol

**PYRIDINES**

1996-07-18

Compounds that contain a six-membered heterocyclic ring containing one nitrogen atom.

UF diodrast  
 UF iodopyracet  
 \*BT1 azines  
 NT1 acridines  
 NT2 acridine orange  
 NT2 flavines  
 NT3 acriflavine  
 NT3 proflavine  
 NT1 bipyridines  
 NT1 nicotinamide  
 NT1 nicotine  
 NT1 nicotinic acid  
 NT1 picolines  
 NT2 picolinic acid  
 NT1 piperidines  
 NT2 dipyridamole  
 NT2 pethidine  
 NT2 triacetoneamine-n-oxyl  
 NT1 pyridine  
 NT1 pyridinium compounds  
 NT1 pyridoxal  
 NT1 pyridoxine  
 NT1 pyridoxylideneglutamate  
 NT1 pyridylazonaphthol  
 NT1 pyridylazoresorcinol  
 NT1 quinolines  
 NT2 ferron  
 NT2 oxine  
 NT2 quinaldine  
 RT isoniazid  
 RT nad

**PYRIDINIUM COMPOUNDS**

\*BT1 pyridines  
 \*BT1 quaternary compounds

**PYRIDOXAL**

\*BT1 aldehydes  
 \*BT1 organic oxygen compounds  
 \*BT1 pyridines  
 RT coenzymes  
 RT picolines  
 RT vitamin b group

**PYRIDOXINE**

UF vitamin b-6  
 \*BT1 hydroxy compounds  
 \*BT1 pyridines  
 \*BT1 vitamin b group

**PYRIDOXYLIDENEGlutamate**

INIS: 1977-11-21; ETDE: 1978-03-08

\*BT1 glutamic acid  
 \*BT1 pyridines

**PYRIDYL RADICALS**

BT1 radicals

**PYRIDYLAZONAPHTHOL**

ETDE: 2005-02-01

(Prior to January 2005 PAN was used for this concept.)

UF pan (pyridylazonaphthol)  
 UF pyridineazohydroxynaphthalene  
 \*BT1 diazo compounds  
 \*BT1 naphthols  
 \*BT1 pyridines

**PYRIDYLAZORESORCINOL**

\*BT1 diazo compounds  
 \*BT1 polyphenols  
 \*BT1 pyridines  
 BT1 reagents

**PYRIMIDINE DIMERS**

INIS: 1986-03-04; ETDE: 1984-06-29

The product of the chemical fusion of two neighboring pyrimidine nucleotides which results from radiation exposure of the cell.

BT1 dimers  
 RT dna repair  
 RT mutations  
 RT pyrimidines  
 RT strand breaks

**PYRIMIDINES**

1996-10-23

Compounds that contain a six-membered heterocyclic ring containing nitrogen atoms in the 1 and 3 positions.

UF 1,3-diazines  
 UF murexide  
 UF purpuric acid  
 UF sulfadiazine  
 \*BT1 azines  
 NT1 alloxan  
 NT1 barbiturates  
 NT2 nembutal  
 NT2 phenobarbital  
 NT1 cytidine  
 NT1 cytosine  
 NT1 deoxycytidine  
 NT1 thiamine  
 NT1 thymidine  
 NT1 uracils  
 NT2 bromouracils  
 NT3 budr  
 NT2 chlorouracils  
 NT2 deoxyuridine  
 NT2 fluorouracils  
 NT3 fudr  
 NT2 iodouracils  
 NT3 iododeoxyuridine  
 NT2 orotic acid  
 NT2 thiouracil  
 NT2 thymine  
 NT2 uridine  
 RT nucleosides  
 RT pteridines  
 RT pyrimidine dimers

**PYRITE**

1978-07-03

UF pyrites  
 \*BT1 sulfide minerals  
 RT iron ores  
 RT iron sulfides  
 RT ledgemont process  
 RT marcasite

**pyrites**

INIS: 2000-04-12; ETDE: 1976-04-19

(Prior to May 1982 this was a valid ETDE descriptor.)

USE pyrite

**pyrocarbon**

2000-04-12

USE pyrolytic carbon

**pyrocatechin**

USE pyrocatechol

**PYROCATECHOL**

UF 1,2-dihydroxybenzene  
 UF catechol  
 UF dihydroxybenzene-ortho  
 UF pyrocatechin  
 BT1 developers  
 \*BT1 polyphenols  
 RT catecholamines  
 RT dopamine  
 RT pyrocatechol violet

**PYROCATECHOL VIOLET**

BT1 dyes  
 BT1 indicators  
 RT pyrocatechol

**PYROCHEMICAL REPROCESSING**

INIS: 1980-07-24; ETDE: 1979-12-10

Processes that are carried out at elevated temperatures to effect the chemical reactions and transformations required to purify and recover spent reactor fuels. Molten metals or salts rather than aqueous or organic liquids are used to effect the purification.

UF melt refining process  
 UF salt transport process  
 UF zinc distillation process  
 \*BT1 reprocessing

**PYROCHLORE**

INIS: 1998-10-23; ETDE: 1982-02-11

UF pyrrhite  
 BT1 minerals

**PYROELECTRIC DETECTORS**

INIS: 1978-11-24; ETDE: 1979-05-25

\*BT1 radiation detectors

**PYROELECTRIC EFFECT**

2000-04-12

Electric polarity produced in certain crystals by a change in temperature.

RT electric charges  
 RT electric potential

**pyroelectricity**

INIS: 1984-04-04; ETDE: 2002-04-26

Property of certain crystals to produce a state of electrical polarity by a change of temperature.

USE electric charges  
 USE polarization  
 USE temperature dependence

**pyrogalllic acid**

USE pyrogallol

**PYROGALLOL**

UF 1,2,3-trihydroxybenzene

UF pyrogalllic acid

BT1 developers  
 \*BT1 polyphenols

**PYROGENS**

RT fever  
 RT peptides  
 RT polysaccharides

**PYROLYSIS**

1998-01-28

UF thermal decomposition

\*BT1 decomposition  
 BT1 thermochemical processes  
 NT1 calcination  
 NT1 cracking  
 NT2 catalytic cracking  
 NT2 hydrocracking  
 NT2 thermal cracking  
 NT1 flash hydrolysis process  
 RT destructive distillation  
 RT dissociation  
 RT landgard pyrolysis system  
 RT occidental flash pyrolysis process  
 RT purox pyrolysis process  
 RT pyrolysis products  
 RT retorting  
 RT rope process  
 RT slagging pyrolysis process  
 RT syngas process  
 RT thermal degradation



**PYROLYSIS PRODUCTS**

INIS: 1983-02-03; ETDE: 1979-07-24

Products from the pyrolysis or thermochemical reactions of carbonaceous materials.

- NT1 chars
- NT1 coal gas
- NT1 pyrolytic gases
- NT1 pyrolytic oils
- RT by-products
- RT combustion products
- RT pyrolysis
- RT synthetic fuels
- RT volatile matter
- RT wastes

**PYROLYTIC CARBON**

- UF pyrocarbon
- \*BT1 carbon

**PYROLYTIC GASES**

INIS: 1992-07-17; ETDE: 1979-07-24

Gaseous products from pyrolysis or thermochemical reactions of carbonaceous materials.

- \*BT1 gases
- BT1 pyrolysis products
- RT chemical feedstocks
- RT pyrolytic oils
- RT synthetic fuels
- RT volatile matter

**PYROLYTIC OILS**

INIS: 1992-07-17; ETDE: 1978-10-23

Oils produced from organic materials by pyrolysis or thermochemical reactions.

- \*BT1 oils
- BT1 pyrolysis products
- \*BT1 synthetic fuels
- RT coal liquids
- RT pyrolytic gases
- RT shale oil
- RT volatile matter

**PYROMETALLURGY**

- \*BT1 extractive metallurgy
- NT1 chloride volatility process
- NT1 fluoride volatility process
- RT calcination
- RT reduction
- RT roasting
- RT smelters
- RT smelting

**PYROMETERS**

Instruments that measure high temperature, e.g. of molten lavas, by electrical or optical means.

- BT1 measuring instruments
- NT1 optical pyrometers
- RT temperature measurement

**PYRONES**

INIS: 2000-04-12; ETDE: 1979-10-23

Oxopyran.

- UF chromone
- \*BT1 pyrans

**PYROPHOSPHATES**

- BT1 oxygen compounds
- BT1 phosphorus compounds

**PYROPHYLLITE**

2000-04-12

A white, greenish, gray, or brown mineral.

- \*BT1 silicate minerals
- RT aluminium silicates

**PYROSOL PROCESS**

INIS: 2000-04-12; ETDE: 1985-09-24

A two-step coal hydrogenation process, including partial hydrogenation at 455 to 465

degrees C and a pressure of 200 bar and coking of the hydrogenation residue in the presence of hydrogen at about 500 degrees C.

- \*BT1 coal liquefaction

**pyrotechnic devices**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE chemical explosives

**pyrotek process**

INIS: 2000-04-12; ETDE: 1977-04-12

Shredded refuse is heated on a vibrating conveyor in less than stoichiometric air to produce low btu gas in this process developed by Foster Wheeler Corp.

- USE low btu gas
- USE waste processing

**pyroxenes**

1976-05-07

A group of dark, rock-forming silicate minerals.

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE silicate minerals

**pyroxylin**

- USE nitrocellulose

**pyrrhite**

INIS: 1998-10-23; ETDE: 1984-02-10

- USE pyrochlore

**PYRRHOTITE**

ETDE: 1976-03-31

- \*BT1 sulfide minerals
- NT1 troilite
- RT iron sulfides

**pyrrolase (tryptophan)**

1996-11-13

(Prior to March 1997 TRYPTOPHAN OXYGENASE was used for this concept in ETDE.)

- USE oxygenases

**PYRROLES**

1996-10-22

Compounds that contain a five-membered heterocyclic ring containing one nitrogen atom.

- UF biliverdin
- UF urobilinogen
- \*BT1 azoles
- NT1 bilirubin
- NT1 indoles
- NT2 indigo
- NT2 indocyanine green
- NT2 lysergic acid
- NT2 reserpine
- NT2 strychnine
- NT2 tryptamines
- NT3 melatonin
- NT3 serotonin
- NT4 bufotenine
- NT2 tryptophan
- NT2 vinblastine
- NT1 pyrrolidines
- NT2 hydroxyproline
- NT2 nicotine
- NT2 proline
- NT1 pyrrolidones
- NT2 pvp
- RT carbazoles

**PYRROLIDINES**

- UF tetrahydropyrroles
- \*BT1 amines
- \*BT1 pyrroles

- NT1 hydroxyproline
- NT1 nicotine
- NT1 proline

**pyrrolidinones**

1996-04-29

- USE pyrrolidones

**PYRROLIDONES**

- UF butyrolactam
- UF pyrrolidinones
- \*BT1 lactams
- \*BT1 pyrroles
- NT1 pvp

**PYRUVIC ACID**

- UF ketopropionic acid-alpha
- \*BT1 keto acids

**PZT**

INIS: 1986-09-26; ETDE: 1982-12-23

Lead zirconate titanate.

- UF lead zirconate titanate
- BT1 lead compounds
- \*BT1 titanates
- \*BT1 zirconates
- RT ceramics

**q centers**

INIS: 1996-07-23; ETDE: 1977-11-10

(Until July 1996 this was a valid descriptor.)

- USE color centers

**Q CODES**

- BT1 computer codes

**Q DEVICES**

- \*BT1 open plasma devices
- NT1 helios devices
- NT1 qp devices
- RT magnetic mirrors

**q enhancement**

2000-04-12

- SEE k1-1270 mesons
- SEE k1-1400 mesons

**q resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

- SEE k1-1270 mesons
- SEE k1-1400 mesons

**Q-SHIFT**

INIS: 1976-03-25; ETDE: 1976-08-26

- RT betatron oscillations
- RT particle beams

**Q-SWITCHING**

- RT lasers
- RT switches

**Q-VALUE**

- BT1 energy
- RT nuclear reaction kinetics

**QATAR**

INIS: 1991-11-06; ETDE: 1976-10-13

- BT1 arab countries
- BT1 asia
- BT1 developing countries
- BT1 middle east
- RT oapec
- RT opec

**qbits**

2005-09-30

- USE qubits

**qcd**

INIS: 2000-04-12; ETDE: 1995-01-09

- USE quantum chromodynamics

**qf (radiation)**

USE quality factor

**QINSHAN-1 REACTOR**

1997-04-29

Near Shanghai, China.

(Until April 1997 this descriptor was spelled QINSHAN REACTOR.)

UF qinshan reactor

\*BT1 pwr type reactors

**QINSHAN-2-1 REACTOR**

2003-01-22

Near Shanghai, China.

(Prior to January 2003 QINSHAN-2 REACTOR was used.)

UF qinshan-2 reactor

\*BT1 pwr type reactors

**QINSHAN-2-2 REACTOR**

2003-01-22

Near Shanghai, China.

\*BT1 pwr type reactors

**qinshan-2 reactor**

1997-04-29

Near Shanghai, China.

(Prior to January 2003 this was a valid descriptor.)

USE qinshan-2-1 reactor

**QINSHAN-3-1 REACTOR**

2003-01-22

Near Shanghai, China.

(Prior to January 2003 QINSHAN-3 REACTOR was used.)

UF qinshan-3 reactor

\*BT1 candu type reactors

**QINSHAN-3-2 REACTOR**

2003-01-22

Near Shanghai, China.

\*BT1 candu type reactors

**qinshan-3 reactor**

1999-03-23

Near Shanghai, China.

(Prior to January 2003 this was a valid descriptor.)

USE qinshan-3-1 reactor

**qinshan reactor**

INIS: 1997-04-29; ETDE: 1986-09-05

(Until April 1997 this was a valid descriptor.)

USE qinshan-1 reactor

**QP DEVICES**

\*BT1 q devices

**QUAD CITIES-1 REACTOR**

Exelon Generation Co., LLC, Cordova, Illinois, USA.

UF cordova quad cities-1 reactor

\*BT1 bwr type reactors

**QUAD CITIES-2 REACTOR**

Exelon Generation Co., LLC, Cordova, Illinois, USA.

UF cordova quad cities-2 reactor

\*BT1 bwr type reactors

**QUADRATURES**

UF gauss quadratures

RT integrals

**QUADRICYCLENE**

INIS: 2000-04-12; ETDE: 1977-12-22

\*BT1 cycloalkenes

**QUADRUPOLE CONFIGURATIONS**

\*BT1 multipolar configurations

**QUADRUPOLE LINACS**

INIS: 1983-02-03; ETDE: 1981-01-09

*Linear accelerator having four longitudinal vanes in its resonating cavity, which are shaped to create rf electric fields that simultaneously accelerate, bunch, and focus the charged particle beam.*

UF radio frequency quadrupoles

UF rfq (accelerators)

\*BT1 linear accelerators

RT fimit linac

RT pigmi facilities

**QUADRUPOLE MOMENTS**

RT electric moments

RT magnetic moments

RT nuclear electric moments

RT nuclear magnetic moments

RT nuclear quadrupole resonance

RT quadrupoles

**QUADRUPOLES**

BT1 multipoles

RT beam focusing magnets

RT quadrupole moments

**QUALITATIVE CHEMICAL ANALYSIS**

UF analysis (qualitative chemical)

UF assaying (qualitative)

UF urinalysis

BT1 chemical analysis

RT activation analysis

RT blood chemistry

RT chemistry

RT emission spectroscopy

RT microanalysis

RT radioassay

**QUALITY ASSURANCE***The planned and systematic actions necessary to provide adequate confidence that a structure, system, or component will perform satisfactorily in service.*

RT audits

RT certification

RT evaluation

RT licensing

RT quality control

RT reliability

RT safety

RT safety culture

RT standardization

**QUALITY CONTROL***An aggregate of functions designed to insure adequate quality in manufactured products by initial critical study of engineering design, materials, processes, equipment, and workmanship followed by periodic inspection and analysis.*

BT1 control

RT errors

RT inspection

RT materials testing

RT nondestructive testing

RT performance testing

RT quality assurance

RT reliability

RT safety

RT sampling

RT specifications

RT standardization

RT tolerance

**QUALITY FACTOR**

UF qf (radiation)

BT1 dimensionless numbers

RT dose equivalents

RT let

RT oxygen enhancement ratio

RT radiation quality

RT rbe

**quality of life**

INIS: 2000-04-12; ETDE: 1978-11-14

(Prior to March 1997 this was a valid ETDE descriptor.)

USE standard of living

**QUANICASSEE-1 REACTOR**

Consumers Power Co., Quanicasssee, Michigan, USA. Canceled in 1974 before construction began.

\*BT1 pwr type reactors

**QUANICASSEE-2 REACTOR**

Consumers Power Co., Quanicasssee, Michigan, USA. Canceled in 1974 before construction began.

\*BT1 pwr type reactors

**QUANTITATIVE CHEMICAL ANALYSIS**

1995-11-22

UF analysis (quantitative chemical)

UF assaying (quantitative)

BT1 chemical analysis

NT1 gravimetric analysis

NT2 thermal gravimetric analysis

NT1 radio-release analysis

NT1 radiochemical analysis

NT1 radiometric analysis

NT1 volumetric analysis

NT2 titration

NT3 amperometry

NT3 iodometry

NT3 potentiometry

NT3 thermometric titration

RT activation analysis

RT blood chemistry

RT body composition

RT chemical composition

RT chemistry

RT concentration ratio

RT emission spectroscopy

RT fluorescence spectroscopy

RT gas analysis

RT isotope dilution

RT kjeldahl method

RT microanalysis

RT polarography

RT radioenzymatic assay

RT raman spectroscopy

RT substoichiometry

RT voltametry

RT x-ray emission analysis

RT x-ray fluorescence analysis

**quantity ratio**

INIS: 1993-07-12; ETDE: 1993-01-28

(Prior to July 1991 this was a valid ETDE descriptor.)

USE concentration ratio

**QUANTIZATION**

1983-03-15

*Transition from a description of a system of particles or fields in the classical approximation to a description in which canonically conjugate variables are treated as noncommuting operators.*

NT1 second quantization

RT quantum field theory

RT quantum mechanics

RT quantum operators

**quantum bits**

2005-09-30

USE qubits

**QUANTUM CHROMODYNAMICS**

INIS: 1978-02-23; ETDE: 1977-11-28  
*Renormalizable quantum field theory, in which colored quark fields are coupled to gluon fields.*

UF chromodynamics  
 UF qcd  
 \*BT1 quantum field theory  
 RT bag model  
 RT cim model  
 RT color model  
 RT flavor model  
 RT gauge invariance  
 RT gluon-gluon interactions  
 RT gluon model  
 RT gluons  
 RT grand unified theory  
 RT instantons  
 RT quantum electrodynamics  
 RT quantum flavordynamics  
 RT quark-gluon interactions  
 RT standard model  
 RT string models  
 RT su-3 groups  
 RT vector fields  
 RT wilson loop  
 RT yang-mills theory

**QUANTUM COMPUTERS**

2005-09-30  
*Devices for computation that make direct use of distinctively quantum mechanical phenomena, such as superposition and entanglement, to perform operations on data.*

UF quantum computing  
 BT1 computers  
 RT quantum electronics  
 RT quantum entanglement  
 RT quantum information  
 RT quantum mechanics

**quantum computing**

2005-09-30  
 USE quantum computers

**QUANTUM CRYPTOGRAPHY**

INIS: 2005-11-01; ETDE: 2005-10-31  
*Approach to making communications secure based on phenomena of quantum mechanics.*

BT1 cryptography  
 RT memory devices  
 RT quantum mechanics  
 RT qubits

**quantum crystals**

2000-04-12  
*Crystals with large zero-point motions caused by light mass and a weak interaction of the lattice particles.*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE crystals

**QUANTUM DECOHERENCE**

INIS: 2005-11-01; ETDE: 2005-10-31  
 RT quantum entanglement  
 RT quantum mechanics

**QUANTUM DOTS**

2003-11-03  
 BT1 nanostructures

**QUANTUM EFFICIENCY**

INIS: 1982-06-10; ETDE: 1979-09-06  
*Average number of electrons emitted per incident photon.*

BT1 efficiency  
 RT photocathodes  
 RT photoelectric emission

**QUANTUM ELECTRODYNAMICS**

BT1 electrodynamics  
 \*BT1 quantum field theory  
 NT1 schwinger-tomonaga formalism  
 RT bhabha scattering  
 RT dirac equation  
 RT dirac operators  
 RT equivalent-photon approximation  
 RT infrared divergences  
 RT joos-weinberg equation  
 RT moeller scattering  
 RT quantum chromodynamics  
 RT quantum flavordynamics  
 RT self-energy  
 RT standard model  
 RT ultraviolet divergences  
 RT vacuum polarization  
 RT ward identity

**QUANTUM ELECTRONICS**

INIS: 1981-05-11; ETDE: 1976-08-04  
*Unites the classical areas of electronics with those of optics, spectroscopy and quantum mechanics and is based upon the quantum nature of waves and atomic and molecular systems.*

UF electronics (quantum)  
 RT lasers  
 RT masers  
 RT optics  
 RT quantum computers  
 RT quantum mechanics  
 RT spectroscopy

**QUANTUM ENTANGLEMENT**

2005-09-30  
*Quantum mechanical phenomenon in which the quantum states of two or more objects have to be described with reference to each other, even though the individual objects may be spatially separated.*

RT quantum computers  
 RT quantum decoherence  
 RT quantum mechanics  
 RT quantum numbers  
 RT quantum teleportation  
 RT wave functions

**QUANTUM FIELD THEORY**

UF non-linear field theory  
 UF nonlinear field theory  
 BT1 field theories  
 NT1 axiomatic field theory  
 NT2 algebraic field theory  
 NT2 lsz theory  
 NT2 wightman field theory  
 NT1 constructive field theory  
 NT2 lattice field theory  
 NT1 lagrangian field theory  
 NT1 phi4-field theory  
 NT1 quantum chromodynamics  
 NT1 quantum electrodynamics  
 NT2 schwinger-tomonaga formalism  
 NT1 quantum flavordynamics  
 NT1 quantum gravity  
 NT1 unified gauge models  
 NT2 grand unified theory  
 NT3 standard model  
 NT2 weinberg-salam gauge model  
 NT1 yukawa nonlocal theory  
 RT anyons  
 RT bethe-salpeter equation  
 RT current algebra  
 RT dispersion relations  
 RT dyson representation  
 RT feynman diagram  
 RT field algebra  
 RT field operators  
 RT fock representation  
 RT gauge invariance

RT goldberger-treiman relation  
 RT haag theorem  
 RT heisenberg picture  
 RT higgs model  
 RT ladder approximation  
 RT lehmann-kaellen representation  
 RT locality  
 RT mass formulae  
 RT massless particles  
 RT melosh transformation  
 RT propagator  
 RT quantization  
 RT quantum groups  
 RT quantum mechanics  
 RT quasipotential equation  
 RT radiative corrections  
 RT regge poles  
 RT renormalization  
 RT s matrix  
 RT scalar fields  
 RT scale dimension  
 RT schroedinger picture  
 RT schwinger functional equations  
 RT schwinger source theory  
 RT second quantization  
 RT sine-gordon equation  
 RT spinor fields  
 RT sugawara theory  
 RT supergravity  
 RT supersymmetry  
 RT tensor fields  
 RT thirring model  
 RT vector fields  
 RT vertex functions  
 RT wick theorem  
 RT yang-feldman formalism  
 RT yang-mills theory  
 RT zachariassen model

**QUANTUM FLAVORDYNAMICS**

INIS: 1995-08-10; ETDE: 1979-05-25

UF flavordynamics  
 \*BT1 quantum field theory  
 RT flavor model  
 RT quantum chromodynamics  
 RT quantum electrodynamics  
 RT weinberg-salam gauge model

**QUANTUM FLUIDS**

INIS: 1983-02-03; ETDE: 1979-05-02

BT1 fluids  
 NT1 helium ii  
 RT helium 3  
 RT helium 4  
 RT quantum plasma

**QUANTUM GRAVITY**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 quantum field theory  
 RT general relativity theory  
 RT gravitation  
 RT gravitational fields  
 RT gravitons  
 RT supergravity  
 RT unified-field theories

**QUANTUM GROUPS**

1997-08-20

*Algebraic structures with applications in solvable models in quantum field theory and statistical physics.*

BT1 symmetry groups  
 RT algebra  
 RT group theory  
 RT quantum field theory

**QUANTUM INFORMATION**

2005-09-30

*Physical information that is held in the state of a quantum system.*

BT1 information

**NT1** qubits  
 RT entropy  
 RT information theory  
 RT quantum computers  
 RT quantum mechanics  
 RT quantum teleportation  
**QUANTUM MECHANICS**  
 BT1 mechanics  
 RT adiabatic approximation  
 RT adiabatic invariance  
 RT aharonov-bohm effect  
 RT angular momentum  
 RT bell theorem  
 RT bloch theory  
 RT born approximation  
 RT boson expansion  
 RT canonical transformations  
 RT causality  
 RT chirality  
 RT commutation relations  
 RT d waves  
 RT de broglie wavelength  
 RT density matrix  
 RT diabatic approximation  
 RT dirac approximation  
 RT eigenfunctions  
 RT eigenstates  
 RT eigenvalues  
 RT energy density  
 RT expectation value  
 RT f waves  
 RT feynman path integral  
 RT fierz-pauli theory  
 RT generator-coordinate method  
 RT heisenberg picture  
 RT hidden variables  
 RT hsk procedure  
 RT hylleraas coordinates  
 RT klein-gordon equation  
 RT kramers theorem  
 RT levinson theorem  
 RT lippmann-schwinger equation  
 RT m-theory  
 RT mathematical operators  
 RT occupation number  
 RT p waves  
 RT partial waves  
 RT pauli principle  
 RT perturbation theory  
 RT planck law  
 RT procra equations  
 RT projection operators  
 RT quantization  
 RT quantum computers  
 RT quantum cryptography  
 RT quantum decoherence  
 RT quantum electronics  
 RT quantum entanglement  
 RT quantum field theory  
 RT quantum information  
 RT quantum numbers  
 RT quantum teleportation  
 RT racah coefficients  
 RT rarita-schwinger theory  
 RT s waves  
 RT schroedinger equation  
 RT schroedinger picture  
 RT schwinger variational method  
 RT second quantization  
 RT selection rules  
 RT semiclassical approximation  
 RT seniority number  
 RT sommerfeld-watson theory  
 RT sudden approximation  
 RT sum rules  
 RT superselection rules  
 RT tamm-dancoff method  
 RT twistor theory

RT uncertainty principle  
 RT wigner coefficients  
 RT wigner theory  
 RT zitterbewegung

**QUANTUM NUMBERS**

**NT1** seniority number  
 RT flavor model  
 RT gell-mann theory  
 RT multiplicity  
 RT parity  
 RT particle properties  
 RT quantum entanglement  
 RT quantum mechanics  
 RT quantum teleportation  
 RT spin

**QUANTUM OPERATORS**

UF operators (quantum field theory)  
 UF operators (quantum mechanical)  
 BT1 mathematical operators  
**NT1** angular momentum operators  
**NT2** orbital momentum operators  
**NT2** pauli spin operators  
**NT1** annihilation operators  
**NT1** commutators  
**NT2** current commutators  
**NT3** sigma terms  
**NT1** creation operators  
**NT1** dirac operators  
**NT1** field operators  
**NT1** hamiltonians  
**NT1** linear momentum operators  
**NT1** moshinsky transformation  
**NT1** position operators  
 RT boson expansion  
 RT gluon condensation  
 RT operator product expansion  
 RT quantization  
 RT quark condensation

**QUANTUM PLASMA**

BT1 plasma  
 RT quantum fluids

**QUANTUM TELEPORTATION**

2005-09-30

*Technique of quantum information science in which a quantum state is transferred to an arbitrarily distant location by using an entangled state and the transmission of some classical information.*

RT data transmission  
 RT quantum entanglement  
 RT quantum information  
 RT quantum mechanics  
 RT quantum numbers

**QUANTUM WELLS**

2003-11-03

BT1 nanostructures  
 RT heterojunctions  
 RT wave functions

**QUANTUM WIRES**

2003-11-03

BT1 nanostructures

**QUARANTINE**

RT diseases  
 RT health hazards  
 RT incubation  
 RT latency period  
 RT pest control  
 RT public health  
 RT time dependence

**QUARK-ANTIQUARK INTERACTIONS**

INIS: 1979-01-18; ETDE: 1979-02-23

\*BT1 particle interactions

**QUARK CONDENSATION**

INIS: 1989-04-20; ETDE: 1989-05-11

RT quantum operators  
 RT quarks  
 RT vacuum states

**quark confinement**

INIS: 1976-08-17; ETDE: 1976-11-01

USE bag model

**QUARK-GLUON INTERACTIONS**

INIS: 1983-02-04; ETDE: 1983-03-07

\*BT1 particle interactions  
 RT gluons  
 RT quantum chromodynamics  
 RT quark matter  
 RT quarks  
 RT strong interactions

**quark-gluon plasma**

INIS: 1984-01-18; ETDE: 1983-09-15

USE quark matter

**QUARK-HADRON INTERACTIONS**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 particle interactions  
 RT cim model  
 RT exchange interactions  
 RT quark model

**quark material**

INIS: 2000-04-12; ETDE: 1983-09-15

USE quark matter

**QUARK MATTER**

INIS: 1984-01-18; ETDE: 1983-09-15

*A plasma of non-interacting quarks and gluons formed from hadronic matter at high energy densities.*

UF plasma (quark)  
 UF quark-gluon plasma  
 UF quark material  
 UF quark plasma  
 UF quark sea  
 BT1 matter  
 RT gluons  
 RT nuclear matter  
 RT quark-gluon interactions  
 RT quark model  
 RT quarks  
 RT string theory

**QUARK MODEL**

SF parton model  
 \*BT1 composite models  
**NT1** bag model  
**NT1** color model  
**NT1** flavor model  
**NT1** string models  
**NT2** superstring models  
 RT beauty particles  
 RT charm particles  
 RT landau quasi particles  
 RT merons  
 RT quark-hadron interactions  
 RT quark matter  
 RT quarkonium  
 RT quarks

**quark plasma**

INIS: 1984-01-18; ETDE: 1983-09-15

USE quark matter

**QUARK-QUARK INTERACTIONS**

INIS: 1979-09-18; ETDE: 1979-02-23

\*BT1 particle interactions

**quark sea**

INIS: 2000-04-12; ETDE: 1983-09-15

USE quark matter

**QUARKONIUM**

INIS: 1995-09-08; ETDE: 1980-05-23

A bound state of a quark and an antiquark.

- NT1 bottomonium
- NT2 chi b0-10235 mesons
- NT2 chi b0-9860 mesons
- NT2 chi b1-10255 mesons
- NT2 chi b1-9890 mesons
- NT2 chi b2-10270 mesons
- NT2 chi b2-9915 mesons
- NT2 upsilon-10023 mesons
- NT2 upsilon-10355 mesons
- NT2 upsilon-10580 mesons
- NT2 upsilon-10860 mesons
- NT2 upsilon-11020 mesons
- NT2 upsilon-9460 mesons
- NT1 charmonium
- NT2 chi0-3415 mesons
- NT2 chi1-3510 mesons
- NT2 chi2-3555 mesons
- NT2 eta c-2980 mesons
- NT2 eta c-3590 mesons
- NT2 j psi-3097 mesons
- NT2 psi-3685 mesons
- NT2 psi-3770 mesons
- NT2 psi-4040 mesons
- NT2 psi-4160 mesons
- NT2 psi-4415 mesons
- NT1 strangeonium
- NT2 f2 prime-1525 mesons
- NT1 toponium
- RT b c mesons
- RT baryonium
- RT bound state
- RT d quarks
- RT quark model
- RT quarks
- RT u quarks

**QUARKS**

1995-09-08

- UF aces (quarks)
- UF triplet particles
- UF urbaryons
- SF grace particles
- SF partons
- SF taste particles
- BT1 fermions
- NT1 antiquarks
- NT2 b antiquarks
- NT2 c antiquarks
- NT2 d antiquarks
- NT2 s antiquarks
- NT2 t antiquarks
- NT2 u antiquarks
- NT1 b quarks
- NT2 b antiquarks
- NT1 c quarks
- NT2 c antiquarks
- NT1 d quarks
- NT2 d antiquarks
- NT1 s quarks
- NT2 s antiquarks
- NT1 t quarks
- NT2 t antiquarks
- NT1 u quarks
- NT2 u antiquarks
- RT centauroid-type events
- RT composite models
- RT melosh transformation
- RT preons
- RT quark condensation
- RT quark-gluon interactions
- RT quark matter
- RT quark model
- RT quarkonium

**quarrying**

INIS: 1975-11-07; ETDE: 2002-02-27

USE surface mining

**QUARTET MODEL**

- UF four-nucleon structure
- \*BT1 nuclear models
- RT cluster model
- RT nuclear structure

**QUARTZ**

Crystalline silica, an important rock-forming mineral.

- \*BT1 oxide minerals
- RT aplites
- RT cristobalite
- RT granites
- RT granodiorites
- RT quartz monzonite
- RT quartzites
- RT shales
- RT silicate minerals
- RT silicon oxides

**QUARTZ MONZONITE**

INIS: 1984-11-30; ETDE: 1984-05-23

- UF adamellite
- \*BT1 granites
- RT feldspars
- RT quartz

**QUARTZITES**

Quartz rocks derived from sandstone.

- \*BT1 metamorphic rocks
- RT quartz
- RT sandstones

**QUASARS**

- BT1 cosmic radio sources
- NT1 blue stellar objects
- RT bl lacertae objects
- RT radio galaxies
- RT seyfert galaxies
- RT stars

**quasi-elastic reactions**

INIS: 1984-04-04; ETDE: 2002-06-13  
Reactions between heavy ions, dominant at low energies, in which small amounts of energy and a few particles are transferred.

USE transfer reactions

**QUASI-ELASTIC SCATTERING**

- \*BT1 quasi-free reactions
- BT1 scattering
- RT elastic scattering

**QUASI-FISSION**

INIS: 1977-04-07; ETDE: 1977-06-03

- UF fission-like reactions
- \*BT1 heavy ion reactions
- RT compound-nucleus reactions
- RT deep inelastic heavy ion reactions
- RT fission
- RT heavy ion fusion reactions
- RT nuclear fireball model
- RT precompound-nucleus emission

**QUASI-FREE REACTIONS**

Nuclear reactions similar to quasi-free (or quasi-elastic) scattering, but distinct in that the incident particle undergoes a rearrangement reaction with the struck particle in the nucleus instead of just scattering from it.

- \*BT1 direct reactions
- NT1 quasi-elastic scattering

**QUASI PARTICLES**

- UF dopplerons
- NT1 anyons
- NT1 excitons

- NT1 focusons
- NT1 instantons
- NT1 landau quasi particles
- NT1 magnons
- NT1 merons
- NT1 phonons
- NT1 plasmons
- NT1 polarons
- NT1 pomeranchuk particles
- NT1 rotons
- NT1 solitons
- RT holes
- RT many-body problem

**QUASIBOUND STATE**

INIS: 1988-11-16; ETDE: 1988-12-05

- RT bound state
- RT coupling
- RT energy levels

**QUASILINEAR PROBLEMS**

- UF quasilinear theory
- RT boltzmann-vlasov equation
- RT mathematics
- RT nonlinear problems
- RT perturbation theory

**quasilinear theory**

INIS: 1988-11-16; ETDE: 2002-04-26

USE quasilinear problems

**QUASIPARTICLE-PHONON MODEL**

INIS: 1981-02-27; ETDE: 1981-03-16

- \*BT1 nuclear models
- RT collective model
- RT phonons
- RT single-particle model

**QUASIPOTENTIAL EQUATION**

- \*BT1 integral equations
- RT lippmann-schwinger equation
- RT quantum field theory
- RT scattering amplitudes

**QUATERNARY ALLOY SYSTEMS**

- BT1 alloy systems

**QUATERNARY COMPOUNDS**

1996-10-23

For quaternary ammonium compounds.

- UF teab
- UF tetraethylammonium bromide
- \*BT1 amines
- BT1 ammonium compounds
- NT1 acetylcholine
- NT1 betaine
- NT1 choline
- NT1 pyridinium compounds
- RT ammonia

**QUATERNARY FISSION**

Fission with emission of two light charged particles.

\*BT1 fission

**QUATERNARY PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

- UF holocene epoch
- \*BT1 cenozoic era
- NT1 pleistocene epoch

**QUATERPHENYLS**

- \*BT1 aromatics
- \*BT1 hydrocarbons

**QUBITS**

2005-09-30

Units of quantum information represented by the superposition of pairs of orthogonal base states in quantum systems.

- UF qbits
- UF quantum bits
- \*BT1 quantum information

*RT* quantum cryptography

**QUEBEC**

\*BT1 canada  
*RT* ottawa river  
*RT* st lawrence river

**QUEEN MARY COLLEGE UTR-B REACTOR**

*Queen Mary College, London, United Kingdom.*  
*UF* university training reactor queen mary  
*UF* utr-b queen mary college reactor  
\*BT1 argonaut type reactors  
\*BT1 training reactors

**QUEENSLAND**

\*BT1 australia

**QUENCH AGING**

BT1 aging  
*RT* quenching

**QUENCH HARDENING**

1996-06-28  
(Prior to July 1996 JOMINY END-QUENCH TECHNIQUE was a valid ETDE descriptor.)  
*SF* jominy end-quench technique  
BT1 hardening  
BT1 heat treatments  
*RT* quenching  
*RT* splat cooling

**QUENCHING**

2000-05-18  
*RT* heat treatments  
*RT* quench aging  
*RT* quench hardening  
*RT* superconductivity

**quenching (avalanche)**

*INIS: 1978-07-03; ETDE: 1976-05-17*  
USE avalanche quenching

**quenching (discharge)**

1996-04-16  
USE discharge quenching

**quenching (fluorescence)**

*INIS: 1984-04-04; ETDE: 2002-04-26*  
USE fluorescence

**quenching (scintillation)**

USE scintillation quenching

**QUERCETIN**

\*BT1 flavones  
\*BT1 polyphenols  
\*BT1 pyrans  
*RT* glycosides

**quercus**

USE oaks

**QUEUES**

*INIS: 2000-04-12; ETDE: 1975-10-01*  
*RT* mathematics

**quezon philippine reactor**

USE prr-1 reactor

**QUIESCENT PLASMA**

BT1 plasma

**QUINALDINE**

1996-07-18  
*UF* 2-methylquinoline  
\*BT1 quinolines

**quinalizarin**

USE quinzarin

**quinhydrone**

1996-10-23  
(Until October 1996 this was a valid descriptor.)  
USE benzoquinones

**QUININE**

\*BT1 alkaloids  
\*BT1 antimicrobial agents  
\*BT1 antipyretics

**QUINIZARIN**

*UF* 1,4-dihydroxyanthraquinone  
*UF* quinalizarin  
\*BT1 anthraquinones  
BT1 dyes  
\*BT1 hydroxy compounds

**QUINOLINES**

1996-07-18  
*UF* kynurenic acid  
\*BT1 azaarenes  
\*BT1 pyridines  
NT1 ferron  
NT1 oxine  
NT1 quinaldine

**quinone**

USE benzoquinones

**QUINONES**

\*BT1 aromatics  
\*BT1 organic oxygen compounds  
NT1 anthraquinones  
NT2 alizarin  
NT2 carminic acid  
NT2 quinzarin  
NT1 benzoquinones  
NT2 chloranil  
NT2 chloranilic acid  
NT2 plastoquinone  
NT2 ubiquinone  
NT1 rhodizonic acid  
NT1 vitamin k  
*RT* ketones

**r (exposure unit)**

*For studies concerning units, concepts, or definitions. See also DOSE EQUIVALENTS.*  
USE radiation dose units

**R-1 REACTOR**

*Stockholm, Sweden.*  
*UF* stockholm r-1 reactor  
*UF* swedish reactor r-1  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 isotope production reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors

**r-1650 resonances**

1988-03-08  
(Prior to December 1987 this was a valid descriptor.)  
USE mesons

**R-2 REACTOR**

*Aktiebolaget Atomenergi, Nyoking, Studsvik, Sweden.*  
*UF* studsvik r-2 reactor  
*UF* swedish reactor r-2  
\*BT1 enriched uranium reactors  
\*BT1 materials testing reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**r-2510 resonances**

*INIS: 1987-12-21; ETDE: 2002-04-26*  
(Prior to December 1987 this was a valid descriptor.)  
USE f6-2510 mesons

**r-3/adam reactor**

USE agesta reactor

**R-A REACTOR**

*VINCA Institute of Nuclear Sciences, Belgrade, Serbia and Montenegro.*  
*UF* vinca r-a reactor yugoslavia  
*UF* yugoslavia r-a reactor vinca  
\*BT1 enriched uranium reactors  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 isotope production reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors

**R-B REACTOR**

*VINCA Institute of Nuclear Sciences, Belgrade, Serbia and Montenegro.*  
*UF* vinca r-b reactor yugoslavia  
*UF* yugoslavia r-b reactor vinca  
\*BT1 heavy water moderated reactors  
\*BT1 natural uranium reactors  
\*BT1 training reactors  
\*BT1 zero power reactors

**R CENTERS**

\*BT1 color centers

**R CODES**

BT1 computer codes

**r-f mass spectrometers**

USE dynamic mass spectrometers

**R FACTORS**

*INIS: 2000-04-12; ETDE: 1977-06-21*  
*Measures of thermal resistance value of materials.*  
*RT* thermal insulation  
*RT* u values

**r-ii swierk reactor**

2000-04-12  
USE swierk r-2 reactor

**R MATRIX**

BT1 matrices  
*RT* group theory  
*RT* multilevel analysis  
*RT* nuclear reactions

**R PROCESS**

\*BT1 star evolution  
*RT* capture  
*RT* nucleosynthesis  
*RT* stars

**R REACTOR**

*Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.*  
*UF* savannah river plant r reactor  
\*BT1 heavy water moderated reactors  
\*BT1 special production reactors

**r-rna**

*INIS: 1990-04-19; ETDE: 1985-11-19*  
USE ribosomal rna

**R2-0 REACTOR**

*Aktiebolaget Atomenergi, Nykoping, Studsvik, Sweden.*  
*UF* studsvik r2-0 reactor  
*UF* swedish reactor r2-0  
\*BT1 enriched uranium reactors

- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors

**RA-0 REACTOR**

*UN Cordoba/CNEA, Argentinian Atomic Energy Commission, Cordoba, Argentina.*

- UF *argentine reactor ra-0*
- UF *reactor argentin-0*
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 zero power reactors

**RA-1 REACTOR**

*CNEA, Buenos Aires, Argentina.*

- UF *argentine reactor ra-1*
- UF *reactor argentin-1*
- \*BT1 argonaut type reactors
- \*BT1 training reactors

**RA-2 REACTOR**

*CNEA, Argentinian Atomic Energy Commission, Buenos Aires, Argentina.*

- UF *argentine reactor ra-2*
- UF *reactor argentin-2*
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 zero power reactors

**RA-3 REACTOR**

*CNEA, Argentinian Atomic Energy Commission, Buenos Aires, Argentina.*

- UF *argentine reactor ra-3*
- UF *ezeiza argentine ra-3 reactor*
- UF *reactor argentin-3*
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors

**ra 333**

*INIS: 2000-04-12; ETDE: 1979-08-09*  
USE *alloy-ra-333*

**RA-4 REACTOR**

*2002-08-13*

- UF *argentine reactor ra-4*
- UF *ezeiza argentine ra-4 reactor*
- UF *reactor argentin-4*
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors

**RA-5 REACTOR**

*INIS: 1976-02-11; ETDE: 1976-04-19*

*CNEA, Argentinian Atomic Energy Commission, Buenos Aires, Argentina.*

- UF *argentine reactor ra-5*
- UF *reactor argentin-5*
- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**RA-6 REACTOR**

*2001-03-01*

*CNEA, Argentinian Atomic Energy Commission, Buenos Aires, Argentina.*

- UF *argentine reactor ra-6*
- UF *reactor argentin ra-6*
- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

**RA-8 REACTOR**

*2002-11-20*

*CNEA, Argentinian Atomic Energy Commission, Buenos Aires, Argentina.*

- UF *argentine reactor ra-8*
- UF *reactor argentin-8*
- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**rabbit brush**

*INIS: 1994-08-22; ETDE: 1982-03-11*  
(Prior to April 1994, this was a valid ETDE descriptor.)

- USE *magnoliopsida*
- USE *shrubs*

**RABBIT TUBES**

*1995-05-09*

- UF *shuttles*
- BT1 *reaction product transport systems*
- \*BT1 *reactor experimental facilities*

**RABBITS**

- \*BT1 *mammals*

**RABIES**

*INIS: 1982-04-14; ETDE: 1982-05-07*

- \*BT1 *nervous system diseases*
- \*BT1 *viral diseases*
- RT *central nervous system*
- RT *viruses*

**RACAH COEFFICIENTS**

- UF *6j-symbols*
- RT *angular momentum*
- RT *clebsch-gordan coefficients*
- RT *group theory*
- RT *quantum mechanics*
- RT *wigner coefficients*

**RACEMATES**

*INIS: 2000-04-12; ETDE: 1976-02-19*  
*50-50 mixtures of dextro and levo isomers; optically inactive.*

- UF *achiral*
- RT *racemization*
- RT *stereochemistry*

**RACEMIZATION**

- RT *isomerases*
- RT *racemates*
- RT *stereochemistry*

**RACETRACK MICROTRONS**

*INIS: 1985-07-23; ETDE: 1985-08-09*  
*Microtrons with two bending magnets and linear accelerators between them.*

- \*BT1 *microtrons*

**rachitis**

- USE *rickets*

**racial groups**

*INIS: 2000-04-12; ETDE: 1979-10-23*  
USE *minority groups*

**racks (fuel)**

*INIS: 1980-04-02; ETDE: 1978-10-25*  
USE *fuel racks*

**rad**

*1997-06-05*

*See also RADIATION DOSES.*

- USE *radiation dose units*

**RADAPPERTIZATION**

*ETDE: 1995-05-05*

*Use of irradiation to sterilize foodstuff.*

- UF *food irradiation (radiosterilization)*
- UF *radiosterilization (food)*
- \*BT1 *food processing*
- \*BT1 *radiosterilization*
- RT *food*
- RT *ifip*

**RADAR**

(From March 1980 till March 1997 SYNTHETIC-APERTURE RADAR was a valid ETDE descriptor.)

- UF *radiation detection and range*
- UF *synthetic-aperture radar*
- \*BT1 *range finders*
- NT1 *acoustic radar*
- NT1 *optical radar*
- RT *electrical equipment*
- RT *electronic equipment*
- RT *frequency range*
- RT *radio equipment*
- RT *radiowave radiation*

**radial distribution**

*INIS: 1989-04-20; ETDE: 2002-04-26*  
USE *spatial distribution*

**radial flow mhd generators**

*INIS: 1993-02-19; ETDE: 1979-05-03*  
USE *disk mhd generators*

**RADIAL INFLOW TURBINES**

*INIS: 2000-04-12; ETDE: 1984-08-20*  
\*BT1 *turbines*  
RT *radial-outflow reaction turbines*

**RADIAL-OUTFLOW REACTION TURBINES**

*INIS: 2000-04-12; ETDE: 1978-10-23*  
UF *rort*  
\*BT1 *turbines*  
RT *radial inflow turbines*

**radial profiles (plasma)**

*INIS: 1989-09-14; ETDE: 2002-04-26*  
USE *plasma radial profiles*

**RADIAL VELOCITY**

- BT1 *velocity*

**RADIANT CABLE HEATING**

*INIS: 2000-04-12; ETDE: 1977-09-19*  
\*BT1 *electric heating*  
RT *radiant heaters*  
RT *space heating*

**RADIANT FLUX DENSITY**

*2000-04-12*  
UF *irradiance*  
UF *radiant intensity*  
BT1 *flux density*

**RADIANT HEAT TRANSFER**

- UF *radiative transfer*
- \*BT1 *heat transfer*
- RT *emissivity*
- RT *radiative cooling*
- RT *thermal radiation*

**RADIANT HEATERS**

*INIS: 2000-04-12; ETDE: 1982-04-09*  
BT1 *heaters*  
RT *radiant cable heating*

**radiant intensity**

*2000-04-12*  
USE *radiant flux density*

**RADIATION ABSORPTION ANALYSIS**

*Analysis based on the determination of the absorption of X-ray, gamma-ray, or other ionizing radiation by the sample.*

\*BT1 nondestructive analysis

**RADIATION ACCIDENTS**

1995-05-10

UF accidental irradiation

UF criticality accidents

UF goiania radiological emergency

SF nuclear accidents

BT1 accidents

RT canare

RT emergency plans

RT international nuclear event scale

**RADIATION ATTENUATION TESTING**

1986-04-04

(Prior to April 1986 INDUSTRIAL

RADIOGRAPHY was used for this concept.)

\*BT1 nondestructive testing

RT industrial radiography

**RADIATION BELTS**

UF van allen belts

NT1 artificial radiation belts

RT charged-particle precipitation

RT earth magnetosphere

RT electron precipitation

RT proton precipitation

**radiation buildup**

USE buildup

**radiation burden**

USE radiation doses

**RADIATION BURNS**

\*BT1 burns

\*BT1 local radiation effects

\*BT1 radiation injuries

RT radiodermatitis

**RADIATION CHEMISTRY**

*The chemistry of the effects of high-energy radiation on matter. Not to be used for RADIOCHEMISTRY.*

BT1 chemistry

RT chemical radiation effects

RT g value

RT oxonium ions

RT photochemistry

RT radiochemistry

RT radiolysis

RT reaction intermediates

RT recombination

RT scavenging

RT valence

**RADIATION CHIMERAS**

\*BT1 chimeras

RT biological radiation effects

RT spleen colony formation

**RADIATION CURING**

INIS: 1982-10-29; ETDE: 1976-09-28

(Prior to November 1982 this concept was indexed by the coordination of CHEMICAL RADIATION EFFECTS and CROSS-LINKING.)

\*BT1 chemical radiation effects

BT1 curing

RT cross-linking

**radiation damage (biological)**

USE radiation injuries

**radiation damage (chemical)**

INIS: 1976-03-02; ETDE: 2002-04-26

USE radiolysis

**radiation damage (nonbiologic)**

2000-04-12

USE radiation effects

**radiation damage (physical)**

INIS: 1976-03-02; ETDE: 2002-04-26

USE physical radiation effects

**radiation decontamination**

2000-04-12

USE decontamination

**RADIATION DETECTION**

UF detection (radiation)

BT1 detection

NT1 charged particle detection

NT2 acoustic detection

NT2 alpha detection

NT2 beta detection

NT2 electron detection

NT2 ion detection

NT2 muon detection

NT2 positron detection

NT2 proton detection

NT1 cosmic ray detection

NT1 fission fragment detection

NT1 gamma detection

NT1 kaon detection

NT1 neutrino detection

NT1 neutron detection

NT1 pion detection

NT1 x-ray detection

RT coincidence spectrometry

RT counting circuits

RT dosimeters

RT dosimetry

RT particle discrimination

RT pulse techniques

RT radiation detectors

RT radiation monitoring

RT radiations

RT spectrometers

RT spectroscopy

**radiation detection and range**

USE radar

**RADIATION DETECTORS**

UF counters (radiation)

UF detectors (radiation)

BT1 measuring instruments

NT1 chemical radiation detectors

NT1 cherenkov counters

NT1 compton diode detectors

NT1 corona counters

NT1 crystal counters

NT2 filament crystal counters

NT1 dielectric track detectors

NT1 directional radiation detectors

NT1 electron multiplier detectors

NT1 emanometers

NT1 fermilab collider detector

NT1 flow counters

NT1 four-pi detectors

NT1 gas track detectors

NT2 bubble chambers

NT3 cryogenic bubble chambers

NT3 heavy liquid bubble chambers

NT3 ultrasonic bubble chambers

NT2 cloud chambers

NT3 diffusion chambers

NT3 expansion chambers

NT2 spark chambers

NT3 filmless spark chambers

NT4 sonic spark chambers

NT4 wire spark chambers

NT3 projection spark chambers

NT3 streamer spark chambers

NT3 wide gap spark chambers

NT1 geiger-mueller counters

NT1 gravitational wave detectors

NT1 ionization chambers

NT2 boron coated ion chambers

NT2 bragg gray chambers

NT2 condenser ionization chambers

NT2 extrapolation chambers

NT2 fission chambers

NT2 liquid ionization chambers

NT2 multiwire ionization chambers

NT1 low level counters

NT1 neutron detectors

NT2 activation detectors

NT2 bf3 counters

NT2 boron coated ion chambers

NT2 boron lined counters

NT2 fission chambers

NT2 fission foil detectors

NT2 fission thermocouple detectors

NT2 he-3 counters

NT2 moderating detectors

NT3 bonner sphere detectors

NT3 long counters

NT2 proton recoil detectors

NT2 self-powered neutron detectors

NT2 threshold detectors

NT1 photographic film detectors

NT1 position sensitive detectors

NT1 proportional counters

NT2 bf3 counters

NT2 boron lined counters

NT2 he-3 counters

NT2 liquid proportional counters

NT2 multiwire proportional chambers

NT3 drift chambers

NT4 time projection chambers

NT2 needle chambers

NT1 pyroelectric detectors

NT1 radiometers

NT1 scintillation counters

NT2 gas scintillation detectors

NT2 liquid scintillation detectors

NT2 scintillator-photodiode detectors

NT2 solid scintillation detectors

NT3 bgo detectors

NT3 nai detectors

NT3 plastic scintillation detectors

NT1 secondary emission detectors

NT1 self-powered detectors

NT2 self-powered gamma detectors

NT2 self-powered neutron detectors

NT1 semiconductor detectors

NT2 bulk semiconductor detectors

NT2 cdte semiconductor detectors

NT2 ge semiconductor detectors

NT3 high-purity ge detectors

NT3 li-drifted ge detectors

NT2 hgi2 semiconductor detectors

NT2 insb semiconductor detectors

NT2 junction detectors

NT3 li-drifted junction detectors

NT2 li-drifted detectors

NT3 li-drifted ge detectors

NT3 li-drifted junction detectors

NT3 li-drifted si detectors

NT2 si semiconductor detectors

NT3 li-drifted si detectors

NT3 si microstrip detectors

NT2 surface barrier detectors

NT1 shower counters

NT1 spark counters

NT1 stanford linear collider detector

NT1 superconducting colloid detectors

NT1 tissue-equivalent detectors

NT1 transition radiation detectors

NT1 wall-less counters



**NT1** whole-body counters  
*RT* charged particle detection  
*RT* cosmic ray detection  
*RT* counting circuits  
*RT* counting techniques  
*RT* dosimeters  
*RT* fission fragment detection  
*RT* gamma detection  
*RT* neutron detection  
*RT* polarimeters  
*RT* pulse techniques  
*RT* radiation detection  
*RT* radiation monitors  
*RT* radioisotope scanners  
*RT* scalars  
*RT* spectrometers  
*RT* streak cameras  
*RT* telescope counters  
*RT* well logging equipment

## RADIATION DOSE DISTRIBUTIONS

*UF* dose distributions  
**NT1** spatial dose distributions  
**NT2** depth dose distributions  
**NT1** temporal dose distributions  
*RT* dose-response relationships  
*RT* irradiation  
*RT* isodose curves  
*RT* radiation doses

## RADIATION DOSE UNITS

1997-06-05

For studies concerning units, concepts or definitions.

*UF* gray  
*UF* r (exposure unit)  
*UF* rad  
*UF* rem  
*UF* roentgen (exposure unit)  
*UF* roentgen equivalent man  
*UF* sievert  
*UF* sievert unit  
**BT1** units  
*RT* dosimetry  
*RT* icru  
*RT* radiation doses

## radiation dosimeters

USE dosimeters

## RADIATION DOSES

*UF* absorbed doses  
*UF* doses (radiation)  
*UF* exposure (radiation doses)  
*UF* radiation burden  
*UF* radiation exposure (doses)  
**BT1** doses  
**NT1** genetically significant dose  
**NT1** integral doses  
**NT1** lethal radiation dose  
**NT1** somatically significant dose  
**NT1** threshold dose  
*RT* alara  
*RT* biological indicators  
*RT* biological radiation effects  
*RT* biophysics  
*RT* buildup  
*RT* chronic irradiation  
*RT* critical organs  
*RT* cumulative radiation effects  
*RT* dose commitments  
*RT* dose equivalents  
*RT* dose limits  
*RT* dose rates  
*RT* dose-response relationships  
*RT* dosimeters  
*RT* dosimetry  
*RT* energy absorption  
*RT* fractionated irradiation  
*RT* icrp critical group

*RT* irradiation  
*RT* kerma  
*RT* lethal irradiation  
*RT* low dose irradiation  
*RT* maximum permissible dose  
*RT* maximum permissible exposure  
*RT* medical surveillance  
*RT* occupational exposure  
*RT* personnel monitoring  
*RT* radiation dose distributions  
*RT* radiation dose units  
*RT* radiation effects  
*RT* radiations  
*RT* remedial action  
*RT* source terms  
*RT* sublethal irradiation  
*RT* supralethal irradiation

## radiation dosimetry

USE dosimetry

## RADIATION EFFECTS

1996-01-24

*UF* radiation damage (nonbiologic)  
**NT1** biological radiation effects  
**NT2** abscopal radiation effects  
**NT2** delayed radiation effects  
**NT2** early radiation effects  
**NT2** genetic radiation effects  
**NT2** local radiation effects  
**NT3** osteoradionecrosis  
**NT3** radiation burns  
**NT3** radiodermatitis  
**NT2** radiation injuries  
**NT3** osteoradionecrosis  
**NT3** radiation burns  
**NT3** radiodermatitis  
**NT1** chemical radiation effects  
**NT2** lyoluminescence  
**NT2** radiation curing  
**NT2** radiolysis  
**NT3** autoradiolysis  
**NT1** cumulative radiation effects  
**NT1** physical radiation effects  
**NT2** atomic displacements  
**NT2** interstitial helium generation  
**NT2** interstitial hydrogen generation  
**NT2** radiation hardening  
*RT* biological localization  
*RT* biophysics  
*RT* blisters  
*RT* comparative evaluations  
*RT* crystal defects  
*RT* damage  
*RT* dose rates  
*RT* dose-response relationships  
*RT* energy losses  
*RT* irradiation  
*RT* photoacoustic effect  
*RT* radiation doses  
*RT* radiation quality  
*RT* radiations  
*RT* radiobiology  
*RT* radiosensitivity  
*RT* rbe  
*RT* recoils  
*RT* response modifying factors  
*RT* self-irradiation  
*RT* strand breaks  
*RT* thermal spikes  
*RT* wigner effect

## RADIATION EQUIVALENCE

INIS: 2000-04-12; ETDE: 1981-01-27

The biological effect of a mutagen or carcinogen expressed in terms of the dose of ionizing radiation needed to produce a similar effect.

*RT* carcinogens  
*RT* genetic effects

*RT* mutagens

## radiation exposure (doses)

USE radiation doses

## RADIATION FLUX

*UF* flux (radiation)  
**NT1** cosmic ray flux  
**NT1** neutron flux  
**NT2** adjoint flux  
**NT1** solar flux  
**NT2** diffuse solar radiation  
**NT2** direct solar radiation  
*RT* flux density  
*RT* point kernels  
*RT* poynting theorem

## RADIATION HARDENING

**BT1** hardening  
**\*BT1** physical radiation effects

## radiation hardening (chemical)

USE chemical radiation effects  
 USE polymerization

## RADIATION HAZARDS

**\*BT1** health hazards  
*RT* alara  
*RT* fallout  
*RT* fission product release  
*RT* fuel element failure  
*RT* genetically significant dose  
*RT* hot labs  
*RT* icrp critical group  
*RT* irradiation  
*RT* radiation protection  
*RT* radiation protection laws  
*RT* radioactive wastes  
*RT* release limits  
*RT* somatically significant dose  
*RT* unsear

## RADIATION HEATING

Component or materials heating by incident nuclear radiation.

*UF* gamma heating  
*UF* neutron heating  
**BT1** heating

## radiation hygiene

USE radiation protection

## RADIATION INDUCED MUTANTS

INIS: 1978-02-23; ETDE: 1986-01-03

**BT1** mutants  
*RT* animal breeding  
*RT* plant breeding

## RADIATION INJURIES

1998-02-16

For damage to molecules of biological significance use CHEMICAL RADIATION EFFECTS or STRAND BREAKS.

*UF* damage (radiation, biological)  
*UF* delayed radiation injuries  
*UF* early radiation injuries  
*UF* radiation damage (biological)  
**\*BT1** biological radiation effects  
**\*BT1** injuries  
**NT1** osteoradionecrosis  
**NT1** radiation burns  
**NT1** radiodermatitis  
*RT* biological indicators  
*RT* biological repair  
*RT* dna damages  
*RT* host-cell reactivation  
*RT* photoreactivation  
*RT* radiation syndrome  
*RT* radiobiology  
*RT* radioinduction  
*RT* strand breaks

**RADIATION LENGTH**

1999-07-20

- \*BT1 length
- RT bremsstrahlung
- RT charged particle detection
- RT energy losses
- RT half-thickness
- RT thickness

**radiation logging**

INIS: 2000-04-12; ETDE: 1976-06-07

- USE radioactivity logging

**RADIATION MONITORING**

- UF control (radioactivity)
- UF monitoring (radiation)
- UF surveillance (radioactivity)
- UF survey (radioactivity)
- BT1 monitoring
- NT1 personnel monitoring
- RT aerial monitoring
- RT aerosol monitoring
- RT alarm systems
- RT controlled areas
- RT dosemeters
- RT dosimetry
- RT exposure ratemeters
- RT inspection
- RT radiation detection
- RT radiation protection
- RT radioactivity
- RT radioassay
- RT site characterization

**RADIATION MONITORS**

- UF alarm dosimeters
- UF monitors (radiation)
- \*BT1 monitors
- NT1 exposure ratemeters
- NT1 liquid contamination monitors
- NT1 neutron monitors
- NT1 surface contamination monitors
- NT1 survey monitors
- RT air samplers
- RT alarm systems
- RT dosemeters
- RT radiation detectors
- RT radioactivity

**RADIATION PRESSURE**

- UF pressure (radiation)
- RT electromagnetic radiation
- RT solar wind

**RADIATION PROTECTION**

1995-05-10

- UF health physics
- UF nuclear safety
- UF protection (radiation)
- UF radiation hygiene
- UF radiation safety
- UF radiological protection
- UF safety (nuclear)
- SF alap
- RT accidents
- RT alara
- RT annual limit of intake
- RT biological shielding
- RT biophysics
- RT civil defense
- RT containment
- RT controlled areas
- RT decontamination
- RT distance
- RT dosimetry
- RT environment
- RT ethical aspects
- RT external irradiation
- RT fallout
- RT fallout shelters

- RT federal radiation council
- RT gloveboxes
- RT gloves
- RT half-thickness
- RT health hazards
- RT hot cells
- RT hot labs
- RT icrp
- RT image intensifiers
- RT industrial medicine
- RT inspection
- RT international convention on nuclear safety
- RT international nuclear event scale
- RT legal aspects
- RT licensing
- RT preventive medicine
- RT protective clothing
- RT public health
- RT radiation hazards
- RT radiation monitoring
- RT radiation protection laws
- RT radiation quality
- RT radiation sources
- RT radioprotective substances
- RT reactor safety
- RT recommendations
- RT reference man
- RT regulations
- RT reliability
- RT remedial action
- RT remote handling
- RT respirators
- RT safety
- RT safety showers
- RT safety standards
- RT shelters
- RT shielding
- RT shielding materials
- RT shields
- RT space flight
- RT strahlenschutzkommission
- RT television
- RT usur
- RT whole-body counting
- RT working conditions

**radiation protection guides**

- USE recommendations

**RADIATION PROTECTION LAWS**

INIS: 1990-12-15; ETDE: 1976-11-01

(Prior to December 1990, this descriptor was spelled RADIATION PROTECTION LAW.)

- BT1 laws
- RT federal radiation council
- RT radiation hazards
- RT radiation protection
- RT safety standards

**RADIATION QUALITY**

For comparative studies on different types of radiation.

- RT energy losses
- RT half-thickness
- RT ionization
- RT let
- RT quality factor
- RT radiation effects
- RT radiation protection
- RT radiations
- RT rbe

**radiation safety**

- USE radiation protection

**RADIATION SCATTERING****ANALYSIS**

- \*BT1 nondestructive analysis
- RT ion scattering analysis

- RT radiometric analysis
- RT scattering

**RADIATION SOURCE IMPLANTS**

- UF implanted sources
- BT1 implants
- BT1 radiation sources
- RT afterloading
- RT brachytherapy
- RT internal irradiation
- RT irradiation capsules
- RT radiotherapy

**RADIATION SOURCES**

For cosmic sources of radiation see also COSMIC GAMMA SOURCES, COSMIC RADIO SOURCES, and COSMIC X-RAY SOURCES.

- UF applicators (radiotherapy)
- UF radioapplicators
- NT1 gamma sources
- NT1 light sources
- NT1 particle sources
  - NT2 alpha sources
  - NT2 antiproton sources
  - NT2 beta sources
  - NT2 deuteron sources
  - NT2 electron sources
    - NT3 pierce electron guns
  - NT2 neutron sources
    - NT3 neutron generators
  - NT3 nisis facility
- NT2 positron sources
- NT2 proton sources
- NT1 point sources
- NT1 portable sources
- NT1 radiation source implants
- NT1 sealed sources
- NT1 synchrotron radiation sources
  - NT2 advanced light source
  - NT2 advanced photon source
  - NT2 european synchrotron radiation facility
    - NT2 indus-1
    - NT2 indus-2
    - NT2 kek photon factory
    - NT2 Inls storage ring
    - NT2 nsls
    - NT2 pohang light source
    - NT2 spring-8 storage ring
    - NT2 surf ii storage ring
    - NT2 swiss light source
- NT1 unsealed sources
- NT1 x-ray sources
  - RT containers
  - RT irradiation
  - RT irradiation devices
  - RT irradiation plants
  - RT lasers
  - RT masers
  - RT radiation protection
  - RT radiations
  - RT radioactivity
  - RT radioisotopes
  - RT well logging equipment

**RADIATION STREAMING**

- UF streaming (radiation)
- RT radiations

**RADIATION SYNDROME**

- RT acute irradiation
- RT autonomic nervous system
- RT bone marrow
- RT central nervous system
- RT chronic irradiation
- RT delayed radiation effects
- RT gastrointestinal tract
- RT latency period
- RT lymphatic system

RT lymphocytes  
 RT muscles  
 RT radiation injuries

**RADIATION TRANSPORT**

UF *transport (radiation)*  
 NT1 charged-particle transport  
 NT2 proton transport  
 NT1 neutral-particle transport  
 NT2 atom transport  
 NT2 neutron transport  
 NT2 photon transport  
 RT transport theory

**RADIATIONLESS DECAY**

*Emissionless transfer of excited-state energy from one quantum system to another, e.g. between atoms in gas mixtures.*

UF *radiationless transitions*  
 \*BT1 de-excitation  
 BT1 energy transfer  
 RT fluorescence

**radiationless transitions**

INIS: 1984-04-04; ETDE: 2002-04-26  
 USE radiationless decay

**RADIATIONS**

NT1 background radiation  
 NT1 delta rays  
 NT1 electromagnetic radiation  
 NT2 auroral hiss  
 NT2 blackbody radiation  
 NT2 bremsstrahlung  
 NT3 cyclotron radiation  
 NT3 internal bremsstrahlung  
 NT3 undulator radiation  
 NT3 synchrotron radiation  
 NT2 cherenkov radiation  
 NT2 coherent radiation  
 NT2 electromagnetic pulses  
 NT3 internal electromagnetic pulses  
 NT2 gamma radiation  
 NT3 delayed gamma radiation  
 NT3 prompt gamma radiation  
 NT2 helicon waves  
 NT2 infrared radiation  
 NT3 far infrared radiation  
 NT3 intermediate infrared radiation  
 NT3 near infrared radiation  
 NT2 laser radiation  
 NT2 microwave radiation  
 NT3 relict radiation  
 NT2 monochromatic radiation  
 NT2 multipole radiation  
 NT2 radiowave radiation  
 NT3 long wave radiation  
 NT3 medium wave radiation  
 NT3 radio noise  
 NT4 atmospheric  
 NT4 whistlers  
 NT3 radioecho  
 NT3 short wave radiation  
 NT3 solar radio bursts  
 NT3 solar radiowave radiation  
 NT2 thermal radiation  
 NT2 transition radiation  
 NT2 ultralow frequency radiation  
 NT2 ultraviolet radiation  
 NT3 extreme ultraviolet radiation  
 NT3 far ultraviolet radiation  
 NT3 near ultraviolet radiation  
 NT2 visible radiation  
 NT2 x radiation  
 NT3 hard x radiation  
 NT3 soft x radiation  
 NT2 zodiacal light  
 NT1 gravitational radiation  
 NT2 gravitons  
 NT1 ionizing radiations

NT2 alpha particles  
 NT3 cosmic alpha particles  
 NT3 delayed alpha particles  
 NT3 solar alpha particles  
 NT2 beta particles  
 NT2 cosmic radiation  
 NT3 cosmic neutrinos  
 NT3 cosmic photons  
 NT3 cosmic protons  
 NT3 hard component  
 NT3 primary cosmic radiation  
 NT4 cosmic alpha particles  
 NT4 cosmic gamma bursts  
 NT4 cosmic nuclei  
 NT4 cosmic x-ray bursts  
 NT3 secondary cosmic radiation  
 NT4 cosmic electrons  
 NT4 cosmic kaons  
 NT4 cosmic muons  
 NT4 cosmic neutrons  
 NT4 cosmic pions  
 NT4 cosmic positrons  
 NT4 cosmic showers  
 NT5 extensive air showers  
 NT3 soft component  
 NT2 gamma radiation  
 NT3 delayed gamma radiation  
 NT3 prompt gamma radiation  
 NT2 x radiation  
 NT3 hard x radiation  
 NT3 soft x radiation  
 NT1 stellar radiation  
 NT2 solar radiation  
 NT3 diffuse solar radiation  
 NT3 direct solar radiation  
 NT3 solar particles  
 NT4 solar alpha particles  
 NT4 solar electrons  
 NT4 solar neutrinos  
 NT4 solar neutrons  
 NT4 solar protons  
 NT3 solar radiowave radiation  
 NT1 stray radiation  
 RT absorption  
 RT biophysics  
 RT buildup  
 RT dosimetry  
 RT irradiation  
 RT radiation detection  
 RT radiation doses  
 RT radiation effects  
 RT radiation quality  
 RT radiation sources  
 RT radiation streaming

**radiative capture**

USE capture

**RADIATIVE COOLING**

INIS: 1977-02-08; ETDE: 1975-10-01  
 BT1 cooling  
 RT air conditioning  
 RT radiant heat transfer  
 RT solar air conditioning

**RADIATIVE CORRECTIONS**

BT1 corrections  
 RT electromagnetic interactions  
 RT phi<sup>4</sup>-field theory  
 RT quantum field theory

**RADIATIVE DECAY**

INIS: 1980-09-12; ETDE: 1978-05-01  
*Weak or electromagnetic decay involving photons.*  
 \*BT1 particle decay  
 RT electromagnetic particle decay  
 RT weak particle decay

**radiative transfer**

INIS: 1984-04-04; ETDE: 2002-04-26  
*Energy transfer by radiation.*  
 USE radiant heat transfer

**RADIATOR COUNTERS**

RT activation detectors  
 RT nuclear emulsions  
 RT proton recoil detectors  
 RT semiconductor detectors

**RADIATORS**

*Limited to heat radiators.*  
 BT1 heat exchangers

**RADICALS**

1996-07-08

*Not to be used for chemical compounds.*

UF *free radicals*

NT1 acyl radicals  
 NT2 acetyl radicals  
 NT2 formyl radicals  
 NT1 alkoxy radicals  
 NT2 butoxy radicals  
 NT2 ethoxy radicals  
 NT2 methoxy radicals  
 NT1 alkyl radicals  
 NT2 allyl radicals  
 NT2 butyl radicals  
 NT2 dodecyl radicals  
 NT2 ethyl radicals  
 NT2 heptyl radicals  
 NT2 hexyl radicals  
 NT2 isobutyl radicals  
 NT2 isopropyl radicals  
 NT2 methyl radicals  
 NT2 octyl radicals  
 NT2 pentyl radicals  
 NT2 propargyl radicals  
 NT2 propyl radicals  
 NT2 vinyl radicals  
 NT1 aryl radicals  
 NT2 benzyl radicals  
 NT2 mesityl radicals  
 NT2 naphthyl radicals  
 NT2 phenethyl radicals  
 NT2 phenyl radicals  
 NT2 tolyl radicals  
 NT1 benzoyl radicals  
 NT1 carbenes  
 NT1 carbonyl radicals  
 NT1 carbynes  
 NT1 dp<sub>ph</sub>  
 NT1 hydronium radicals  
 NT1 hydroperoxy radicals  
 NT1 hydroxyl radicals  
 NT1 methylene radicals  
 NT1 nitroxyl radicals  
 NT1 peroxy radicals  
 NT1 phenoxy radicals  
 NT1 phenylene radicals  
 NT1 picryl radicals  
 NT1 pyridyl radicals  
 NT1 sulfhydryl radicals  
 NT1 superoxide radicals  
 NT1 thiyl radicals  
 NT1 vinylidene radicals  
 RT reaction intermediates  
 RT scavenging

**RADICIDATION**

*Use of irradiation to destroy microorganisms in food which are detrimental to health.*

UF *food irradiation (radiopasteurization)*  
 UF *radiopasteurization*  
 BT1 irradiation  
 \*BT1 pasteurization  
 RT food  
 RT health hazards  
 RT ifip

**RADIO EQUIPMENT**

INIS: 1981-03-10; ETDE: 1976-12-16

- UF radio receivers
- UF radio transmitters
- \*BT1 electronic equipment
- NT1 heterodyne receivers
- NT1 ionosondes
- NT1 radio telescopes
- RT antennas
- RT communications
- RT microwave equipment
- RT radar
- RT radio equipment power supplies
- RT radiowave radiation
- RT rf systems
- RT television

**RADIO EQUIPMENT POWER SUPPLIES**

2000-04-12

- \*BT1 power supplies
- RT radio equipment

**radio frequency quadrupoles**

INIS: 1991-10-09; ETDE: 2002-04-26

- USE quadrupole linacs

**RADIO GALAXIES**

- BT1 cosmic radio sources
- BT1 galaxies
- RT quasars

**RADIO NOISE**

- UF cosmic noise
- BT1 noise
- \*BT1 radiowave radiation
- NT1 atmospheric
- NT1 whistlers
- RT background noise
- RT interference

**radio receivers**

INIS: 1981-03-10; ETDE: 1976-12-29

- USE radio equipment

**radio-receptor assay**

INIS: 1984-04-04; ETDE: 2002-04-26

- USE radioreceptor assay

**RADIO-RELEASE ANALYSIS**

Substance to be measured reacts chemically with a converter substance to release a radioactive material.

- UF radiorelease analysis
- \*BT1 quantitative chemical analysis
- RT gas analysis
- RT tracer techniques

**RADIO TELESCOPES**

- \*BT1 antennas
- \*BT1 radio equipment
- BT1 telescopes
- RT interferometers

**radio transmitters**

INIS: 1981-03-10; ETDE: 1976-12-29

- USE radio equipment

**RADIOACTIVATION**

For activation cross sections see also INTEGRAL CROSS SECTIONS.

- UF activation (radio)
- RT activation analysis
- RT labelling
- RT neutron capture therapy
- RT neutron sources

**RADIOACTIVE AEROSOLS**

- UF radioactive particulates
- \*BT1 aerosols
- RT aerosol monitoring
- RT fallout

- RT particle resuspension
- RT radioactive clouds

**radioactive biological wastes**

- USE biological wastes
- USE radioactive wastes

**RADIOACTIVE CLOUDS**

- UF atomic clouds
- BT1 clouds
- RT accidents
- RT aerial monitoring
- RT aerosols
- RT air
- RT earth atmosphere
- RT external irradiation
- RT fallout
- RT nuclear explosions
- RT radioactive aerosols
- RT radioactivity
- RT stacks
- RT washout
- RT wind

**radioactive decontamination**

INIS: 1975-11-27; ETDE: 2002-04-26

- USE decontamination

**RADIOACTIVE EFFLUENTS**

- UF effluents (radioactive)
- \*BT1 radioactive wastes
- RT chemical effluents
- RT gaseous wastes
- RT liquid wastes
- RT particle resuspension
- RT radioactive waste disposal
- RT stack disposal

**radioactive gaseous wastes**

- USE gaseous wastes
- USE radioactive wastes

**RADIOACTIVE ION BEAMS**

INIS: 1992-02-26; ETDE: 1992-04-15

- \*BT1 ion beams
- NT1 argon 39 beams
- NT1 beryllium 7 beams
- NT1 carbon 10 beams
- NT1 carbon 11 beams
- NT1 carbon 14 beams
- NT1 chlorine 39 beams
- NT1 helium 8 beams
- NT1 neon 19 beams
- NT1 nitrogen 13 beams
- NT1 sulfur 38 beams
- NT1 triton beams
- NT1 uranium 238 beams

**RADIOACTIVE IONIZATION GAGES**

- \*BT1 ionization gages

**RADIOACTIVE MATERIALS**

- BT1 materials
- NT1 fission products
- NT1 radioactive minerals
- NT2 baddeleyite
- NT2 corvusite
- NT2 fersmite
- NT2 kainosite
- NT2 melanovanadite
- NT2 pascoite
- NT2 rutile
- NT2 thorium minerals
- NT3 allanite
- NT3 bastnaesite
- NT3 brannerite
- NT3 ekanite
- NT3 freyalite
- NT3 hydrothorite
- NT3 lodochukite

- NT3 lyndochite
- NT3 mackintoshite
- NT3 maitlandite
- NT3 monazites
- NT3 naegite
- NT3 thorianite
- NT3 thorite
- NT4 jiningite
- NT3 thucholite
- NT3 uranothorite

- NT2 uranium minerals
- NT3 autunite
- NT3 bassetite
- NT3 becquerelite
- NT3 billietite
- NT3 brannerite
- NT3 carnotite
- NT3 clarkeite
- NT3 coffinite
- NT3 compregnacite
- NT3 dewindtite
- NT3 diderichite
- NT3 djalmaite
- NT3 ekanite
- NT3 ellsworthite
- NT3 ferghanite
- NT3 fourmarierite
- NT3 gastunite
- NT3 guilleminite
- NT3 hallimondite
- NT3 heinrichite
- NT3 ianthinite
- NT3 kahlerite
- NT3 kirchheimerite
- NT3 lodochukite
- NT3 mackintoshite
- NT3 moctezumite
- NT3 montroseite
- NT3 naegite
- NT3 natroautunite
- NT3 ningyoite
- NT3 novacekite
- NT3 para-schoepite
- NT3 ranquillite
- NT3 rauvite
- NT3 sabugalite
- NT3 salecite
- NT3 schoepite
- NT3 sengierite
- NT3 sklodowskite
- NT3 soddyite
- NT3 thorianite
- NT3 thucholite
- NT3 torbernite
- NT3 tyuyamunite
- NT3 uraninites
- NT4 broeggerite
- NT4 pitchblende
- NT3 uranium black
- NT3 uranophane
- NT3 uranothorite
- NT3 vesuvianite
- NT1 radioactive wastes
- NT2 alpha-bearing wastes
- NT2 calcined wastes
- NT2 high-level radioactive wastes
- NT2 intermediate-level radioactive wastes
- NT2 low-level radioactive wastes
- NT2 radioactive effluents
- NT2 waste forms
- NT1 radiopharmaceuticals
- RT radioactivity
- RT radioisotopes

**RADIOACTIVE MINERALS**

1996-07-18

- UF cordylite
- UF florencite

BT1 minerals  
 \*BT1 radioactive materials  
 NT1 baddeleyite  
 NT1 corvusite  
 NT1 fersmite  
 NT1 kainosite  
 NT1 melanovanadite  
 NT1 pascoite  
 NT1 rutile  
 NT1 thorium minerals  
 NT2 allanite  
 NT2 bastnaesite  
 NT2 brannerite  
 NT2 ekanite  
 NT2 freyvalite  
 NT2 hydrothorite  
 NT2 lodochmnikite  
 NT2 lyndochite  
 NT2 mackintoshite  
 NT2 maitlandite  
 NT2 monazites  
 NT2 naegite  
 NT2 thorianite  
 NT2 thorite  
 NT3 jiningite  
 NT2 thucholite  
 NT2 uranothorite  
 NT1 uranium minerals  
 NT2 autunite  
 NT2 bassetite  
 NT2 becquerelite  
 NT2 billietite  
 NT2 brannerite  
 NT2 carnotite  
 NT2 clarkeite  
 NT2 coffinite  
 NT2 compregnacite  
 NT2 dewindtite  
 NT2 diderichite  
 NT2 djalmaite  
 NT2 ekanite  
 NT2 ellsworthite  
 NT2 ferghanite  
 NT2 fourmarierite  
 NT2 gastunite  
 NT2 guilleminite  
 NT2 hallimondite  
 NT2 heinrichite  
 NT2 ianthinite  
 NT2 kahlerite  
 NT2 kirchheimerite  
 NT2 lodochmnikite  
 NT2 mackintoshite  
 NT2 moctezumite  
 NT2 montroseite  
 NT2 naegite  
 NT2 natroautunite  
 NT2 ningyoite  
 NT2 novacekite  
 NT2 para-schoepite  
 NT2 ranquillite  
 NT2 rauvite  
 NT2 sabugalite  
 NT2 saleeite  
 NT2 schoepite  
 NT2 sengierite  
 NT2 sklodowskite  
 NT2 soddyite  
 NT2 thorianite  
 NT2 thucholite  
 NT2 torbernite  
 NT2 tyuyamunite  
 NT2 uraninites  
 NT3 broeggerite  
 NT3 pitchblende  
 NT2 uranium black  
 NT2 uranophane  
 NT2 uranothorite  
 NT2 vesuvianite

**radioactive particulates**

USE particles  
 USE radioactive aerosols

**RADIOACTIVE TRACER LOGGING**

*INIS: 1977-06-14; ETDE: 1976-06-07*  
*Well logging using radioactive tracers for measuring fluid movement and for obtaining source and sink information.*  
 \*BT1 radioactivity logging  
 \*BT1 tracer techniques

**radioactive tracers**

*INIS: 2000-04-12; ETDE: 1981-05-18*  
 SEE radiopharmaceuticals  
 SEE tracer techniques

**RADIOACTIVE WASTE DISPOSAL**

*1997-06-19*  
 \*BT1 radioactive waste management  
 \*BT1 waste disposal  
 RT actinide burner reactors  
 RT backfilling  
 RT biointrusion  
 RT boom clay  
 RT dalhart basin  
 RT disposal wells  
 RT environmental exposure pathway  
 RT fission product release  
 RT fuel cycle centers  
 RT ground release  
 RT marine disposal  
 RT natural analogue  
 RT novaya zemlya  
 RT nuclear waste policy acts  
 RT palo duro basin  
 RT paradox basin  
 RT pasco basin  
 RT permian basin  
 RT radioactive effluents  
 RT radioactive waste facilities  
 RT radioactive waste storage  
 RT radioactive wastes  
 RT salt caverns  
 RT salt deposits  
 RT shaft excavations  
 RT stack disposal  
 RT underground disposal  
 RT waste forms  
 RT waste-rock interactions  
 RT yucca mountain

**RADIOACTIVE WASTE FACILITIES**

BT1 nuclear facilities  
 NT1 asse salt mine  
 NT1 aube plant  
 NT1 bohunice radioactive waste processing center  
 NT1 gorleben salt dome  
 NT1 hades underground research facility  
 NT1 konrad ore mine  
 NT1 manche plant  
 NT1 mochovce radioactive waste repository  
 NT1 morsleben salt mine  
 NT1 pamela plant  
 NT1 vaalputs radioactive waste disposal facility  
 NT1 wipp  
 RT biointrusion  
 RT fuel cycle centers  
 RT fuel reprocessing plants  
 RT radioactive waste disposal  
 RT radioactive waste processing  
 RT radioactive wastes  
 RT storage facilities  
 RT waste retrieval

**RADIOACTIVE WASTE MANAGEMENT***1990-11-07*

\*BT1 waste management  
 NT1 radioactive waste disposal  
 NT1 radioactive waste processing  
 NT2 harvest process  
 NT1 radioactive waste storage  
 NT2 monitored retrievable storage  
 RT compact commissions  
 RT radioactive wastes  
 RT risk assessment

**radioactive waste policy acts**

*INIS: 1985-09-09; ETDE: 2002-04-26*  
 USE nuclear waste policy acts

**RADIOACTIVE WASTE PROCESSING**

UF *aralex process*  
 UF *opix process*  
 SF *medec process*  
 \*BT1 radioactive waste management  
 \*BT1 waste processing  
 NT1 harvest process  
 RT accelerator driven transmutation  
 RT calcination  
 RT calcined wastes  
 RT ceramic melters  
 RT encapsulation  
 RT fuel cycle centers  
 RT iodox process  
 RT pamela plant  
 RT radioactive waste facilities  
 RT radioactive wastes  
 RT slagging pyrolysis process  
 RT synroc process  
 RT vitrification  
 RT waste forms

**RADIOACTIVE WASTE STORAGE***1996-04-16*

\*BT1 radioactive waste management  
 \*BT1 waste storage  
 NT1 monitored retrievable storage  
 RT dry storage  
 RT fuel cycle centers  
 RT harvest process  
 RT radioactive waste disposal  
 RT us mrs project  
 RT wet storage

**RADIOACTIVE WASTES**

UF *nuclear wastes*  
 UF *radioactive biological wastes*  
 UF *radioactive gaseous wastes*  
 UF *residues (radioactive)*  
 \*BT1 radioactive materials  
 BT1 wastes  
 NT1 alpha-bearing wastes  
 NT1 calcined wastes  
 NT1 high-level radioactive wastes  
 NT1 intermediate-level radioactive wastes  
 NT1 low-level radioactive wastes  
 NT1 radioactive effluents  
 NT1 waste forms  
 RT contamination  
 RT fission products  
 RT fissionable materials  
 RT ground disposal  
 RT mill tailings  
 RT nuclear materials management  
 RT nuclear waste policy acts  
 RT radiation hazards  
 RT radioactive waste disposal  
 RT radioactive waste facilities  
 RT radioactive waste management  
 RT radioactive waste processing  
 RT radiocolloids  
 RT radioisotope heat sources

- RT release limits  
 RT salt vault project  
 RT spent fuels  
 RT waste pellets  
 RT waste retrieval

**RADIOACTIVITY**

*For measured values of radioactivity and for unidentified radiation sources.*

- UF concentrations (radionuclides)  
 UF induced radioactivity  
 UF radionuclide concentration  
 NT1 natural radioactivity  
 RT activity levels  
 RT annual limit of intake  
 RT body burden  
 RT contamination  
 RT hot labs  
 RT maximum inhalation quantity  
 RT maximum permissible activity  
 RT maximum permissible body burden  
 RT maximum permissible intake  
 RT maximum permissible level  
 RT personnel monitoring  
 RT radiation monitoring  
 RT radiation monitors  
 RT radiation sources  
 RT radioactive clouds  
 RT radioactive materials  
 RT radioassay  
 RT radioecological concentration  
 RT radioisotopes  
 RT radiometric analysis  
 RT radionuclide kinetics  
 RT residence half-time  
 RT surface contamination  
 RT whole-body counting

**RADIOACTIVITY LOGGING**

*INIS: 1976-10-29; ETDE: 1976-06-07*

*Well logging using either natural or induced nuclear radiation.*

- UF nuclear log  
 UF radiation logging  
 BT1 well logging  
 NT1 gamma-gamma logging  
 NT1 gamma logging  
 NT1 neutron logging  
 NT2 neutron-gamma logging  
 NT2 neutron-neutron logging  
 NT1 radioactive tracer logging  
 NT1 x-ray fluorescence logging  
 RT radiometric surveys

**RADIOACTIVITY TRANSPORT**

*INIS: 1976-05-07; ETDE: 1976-08-24*

*The processes by which radioactive materials move and become deposited throughout a reactor system.*

- UF activity transport  
 RT contamination

**radioapplicators**

- USE radiation sources

**RADIOASSAY**

*The measurement of radioactive samples including the identification of unknown samples and the determination of activity or energy.*

- NT1 radioimmunoassay  
 NT2 radioimmunoassay  
 NT2 radioimmunosciintigraphy  
 NT1 radioreceptor assay  
 RT bioassay  
 RT counting techniques  
 RT qualitative chemical analysis  
 RT radiation monitoring  
 RT radioactivity  
 RT radioenzymatic assay  
 RT spectroscopy

**RADIOASTRONOMY**

- BT1 astronomy  
 RT cosmic radio sources  
 RT ghz range  
 RT mhz range  
 RT solar radio bursts

**radioautography**

- USE autoradiography

**radiobiological effects**

- USE biological radiation effects

**RADIOBIOLOGY**

- BT1 biology  
 RT biological radiation effects  
 RT biophysics  
 RT molecular biology  
 RT radiation effects  
 RT radiation injuries  
 RT radioinduction  
 RT radiosensitivity  
 RT tracer techniques

**radiocarbon dating**

- USE carbon 14  
 USE isotope dating

**RADIOCARDIOGRAPHY**

- \*BT1 cardiography

**radiochemical activation analysis**

*INIS: 1993-11-09; ETDE: 2002-04-26*

*Use one of the narrower terms of the descriptor below if appropriate.*

- USE activation analysis

**RADIOCHEMICAL ANALYSIS**

*1994-10-13*

*Quantitative analysis based on a combination of radiochemical and radiometric techniques. (Until October 1994 this concept was indexed to RADIOMETRIC ANALYSIS.)*

- \*BT1 quantitative chemical analysis  
 RT radiometric analysis

**radiochemical laboratories**

- USE hot labs

**RADIOCHEMISTRY**

*The chemistry of radioactive materials. Not to be used for RADIATION CHEMISTRY.*

- UF reactor chemistry  
 BT1 chemistry  
 NT1 hot atom chemistry  
 NT2 szilard-chalmers reaction  
 RT emanation method  
 RT nuclear chemistry  
 RT radiation chemistry

**RADIOCHROMATOGRAPHY**

- \*BT1 chromatography

**RADIOCOLLOIDS**

- \*BT1 colloids  
 NT1 thorotrast  
 RT gold 198  
 RT isotope applications  
 RT radioactive wastes  
 RT radiopharmaceuticals

**radiocrystallography**

- USE crystallography

**radiodecomposition**

*ETDE: 2002-04-26*

- USE radiolysis

**RADIODERMATITIS**

- \*BT1 dermatitis  
 \*BT1 local radiation effects  
 \*BT1 radiation injuries  
 RT radiation burns

**radiodiagnosis (radionuclides)**

- USE diagnosis  
 USE nuclear medicine

**RADIODISINFESTATION**

*1980-12-02*

- BT1 disinfestation  
 BT1 irradiation  
 RT grain disinfestation  
 RT insects  
 RT radiosterilization

**RADIOECHO**

- \*BT1 radiowave radiation

**RADIOECOLOGICAL CONCENTRATION**

- UF accumulation (radioecological)  
 BT1 ecological concentration  
 RT biological localization  
 RT buildup  
 RT concentration ratio  
 RT contamination  
 RT ecosystems  
 RT environmental transport  
 RT food chains  
 RT radioactivity  
 RT radionuclide migration

**RADIOECOLOGY**

- BT1 ecology  
 RT radionuclide migration

**radioelectric cells**

*ETDE: 2002-04-26*

- USE direct collection converters

**RADIOENZYMATIC ASSAY**

*INIS: 1981-09-17; ETDE: 1981-10-24*

- RT enzymes  
 RT labelled compounds  
 RT quantitative chemical analysis  
 RT radioassay

**radiofrequency systems**

- USE rf systems

**radiographs**

- USE images

**radiography (auto)**

- USE autoradiography

**radiography (biomedical)**

- USE biomedical radiography

**radiography (industrial)**

- USE industrial radiography

**radiography (micro)**

*INIS: 1983-03-15; ETDE: 1975-10-01*

- USE microradiography

**RADIOIMMUNOASSAY**

- UF ria (radioimmunoassay)  
 \*BT1 immunoassay  
 \*BT1 radioimmunoassay  
 RT antibodies  
 RT antigen-antibody reactions  
 RT antigens  
 RT cpb  
 RT labelled compounds  
 RT radioimmunology  
 RT radioimmunosciintigraphy  
 RT radioisotopes

**RADIOIMMUNODETECTION**

*INIS: 1995-01-09; ETDE: 1990-01-23*

- BT1 diagnostic techniques  
 BT1 radioassay  
 \*BT1 tracer techniques  
 NT1 radioimmunoassay

**NT1** radioimmunosciintigraphy  
*RT* antibodies  
*RT* labelled compounds  
*RT* neoplasms

**RADIOIMMUNOLOGY**

**BT1** immunology  
*RT* biological radiation effects  
*RT* grafts  
*RT* immunity  
*RT* irradiation  
*RT* radioimmunoassay  
*RT* radioimmunotherapy  
*RT* therapy

**RADIOIMMUNOSCINTIGRAPHY**

*INIS: 1995-01-09; ETDE: 1987-10-22*

*The in vivo use of radiolabelled antibodies to visualize particular biological structures, especially diagnostic use in medicine.*

\***BT1** radioimmunodetection  
 \***BT1** scintiscanning  
*RT* monoclonal antibodies  
*RT* radioimmunoassay  
*RT* radioimmunotherapy

**RADIOIMMUNOTHERAPY**

*INIS: 1994-02-28; ETDE: 1986-01-14*

(Until March 1994 this concept was indexed by RADIO THERAPY and IMMUNOTHERAPY.)

\***BT1** immunotherapy  
 \***BT1** radiotherapy  
*RT* antibodies  
*RT* monoclonal antibodies  
*RT* radioimmunology  
*RT* radioimmunosciintigraphy

**radioinduced reactions**

USE chemical radiation effects

**RADIOINDUCTION**

*1994-08-26*

(Until August 1994 this concept was indexed by RADIATION EFFECTS.)

*RT* biological radiation effects  
*RT* radiation injuries  
*RT* radiobiology

**RADIOISOTOPE BATTERIES**

UF *batteries (isotopic)*

**BT1** direct energy converters  
**NT1** snap batteries  
**NT2** snap 19 battery  
**NT2** snap 27 battery  
**NT2** snap 9 battery

*RT* cardiac pacemakers  
*RT* direct collection converters  
*RT* mechanical heart  
*RT* radioisotope heat sources  
*RT* radioisotopes  
*RT* spacecraft power supplies  
*RT* thermoelectric generators

**RADIOISOTOPE GENERATORS**

UF *cow-milkers*

UF *generators (radioisotope)*

*RT* cesium 137  
*RT* daughter products  
*RT* decay  
*RT* diagnostic techniques  
*RT* germanium 68  
*RT* half-life  
*RT* isotope production  
*RT* isotope separation  
*RT* magnesium 28  
*RT* molybdenum 99  
*RT* strontium 90  
*RT* tellurium 132  
*RT* tin 113  
*RT* yttrium 87

**RADIOISOTOPE HEAT SOURCES**

UF *heat sources (radioisotope)*

**BT1** heat sources  
*RT* energy  
*RT* radioactive wastes  
*RT* radioisotope batteries  
*RT* thermoelectric generators

**radioisotope kinetics**

USE radionuclide kinetics

**radioisotope-labelled drugs**

*INIS: 2000-04-12; ETDE: 1981-05-18*

USE radiopharmaceuticals

**radioisotope migration**

USE radionuclide migration

**RADIOISOTOPE SCANNERS**

UF *scanners (radioisotope)*

*RT* gamma cameras  
*RT* image processing  
*RT* image scanners  
*RT* images  
*RT* positron cameras  
*RT* radiation detectors  
*RT* radioisotope scanning

**RADIOISOTOPE SCANNING**

UF *scanning (radioisotope)*

**BT1** counting techniques  
**NT1** scintiscanning  
**NT2** radioimmunosciintigraphy  
*RT* cameras  
*RT* ecat scanning  
*RT* emission computed tomography  
*RT* gamma detection  
*RT* nuclear medicine  
*RT* positron computed tomography  
*RT* radioisotope scanners  
*RT* single photon emission computed tomography  
*RT* tomography

**RADIOISOTOPES**

UF *radionuclides*

**BT1** isotopes  
**NT1** alpha decay radioisotopes  
**NT2** actinium 206  
**NT2** actinium 207  
**NT2** actinium 208  
**NT2** actinium 209  
**NT2** actinium 210  
**NT2** actinium 211  
**NT2** actinium 212  
**NT2** actinium 213  
**NT2** actinium 214  
**NT2** actinium 215  
**NT2** actinium 216  
**NT2** actinium 217  
**NT2** actinium 218  
**NT2** actinium 219  
**NT2** actinium 220  
**NT2** actinium 221  
**NT2** actinium 222  
**NT2** actinium 223  
**NT2** actinium 224  
**NT2** actinium 225  
**NT2** actinium 226  
**NT2** actinium 227  
**NT2** americium 231  
**NT2** americium 232  
**NT2** americium 237  
**NT2** americium 238  
**NT2** americium 239  
**NT2** americium 240  
**NT2** americium 241  
**NT2** americium 242  
**NT2** americium 243  
**NT2** astatine 191

**NT2** astatine 192  
**NT2** astatine 193  
**NT2** astatine 194  
**NT2** astatine 196  
**NT2** astatine 197  
**NT2** astatine 198  
**NT2** astatine 199  
**NT2** astatine 200  
**NT2** astatine 201  
**NT2** astatine 202  
**NT2** astatine 203  
**NT2** astatine 204  
**NT2** astatine 205  
**NT2** astatine 206  
**NT2** astatine 207  
**NT2** astatine 208  
**NT2** astatine 209  
**NT2** astatine 210  
**NT2** astatine 211  
**NT2** astatine 212  
**NT2** astatine 213  
**NT2** astatine 214  
**NT2** astatine 215  
**NT2** astatine 216  
**NT2** astatine 217  
**NT2** astatine 218  
**NT2** astatine 219  
**NT2** astatine 220  
**NT2** berkelium 235  
**NT2** berkelium 243  
**NT2** berkelium 244  
**NT2** berkelium 245  
**NT2** berkelium 247  
**NT2** berkelium 249  
**NT2** beryllium 8  
**NT2** bismuth 184  
**NT2** bismuth 185  
**NT2** bismuth 186  
**NT2** bismuth 187  
**NT2** bismuth 188  
**NT2** bismuth 189  
**NT2** bismuth 190  
**NT2** bismuth 191  
**NT2** bismuth 192  
**NT2** bismuth 193  
**NT2** bismuth 194  
**NT2** bismuth 195  
**NT2** bismuth 196  
**NT2** bismuth 197  
**NT2** bismuth 199  
**NT2** bismuth 201  
**NT2** bismuth 203  
**NT2** bismuth 210  
**NT2** bismuth 211  
**NT2** bismuth 212  
**NT2** bismuth 213  
**NT2** bismuth 214  
**NT2** bohrium 260  
**NT2** bohrium 261  
**NT2** bohrium 262  
**NT2** bohrium 264  
**NT2** bohrium 265  
**NT2** bohrium 266  
**NT2** bohrium 267  
**NT2** bohrium 271  
**NT2** bohrium 272  
**NT2** boron 9  
**NT2** californium 237  
**NT2** californium 239  
**NT2** californium 240  
**NT2** californium 241  
**NT2** californium 242  
**NT2** californium 243  
**NT2** californium 244  
**NT2** californium 245  
**NT2** californium 246  
**NT2** californium 247  
**NT2** californium 248  
**NT2** californium 249

NT2	californium 250	NT2	fermium 252	NT2	iridium 169
NT2	californium 251	NT2	fermium 253	NT2	iridium 170
NT2	californium 252	NT2	fermium 254	NT2	iridium 171
NT2	californium 253	NT2	fermium 255	NT2	iridium 172
NT2	californium 254	NT2	fermium 256	NT2	iridium 173
NT2	curium 233	NT2	fermium 257	NT2	iridium 174
NT2	curium 234	NT2	francium 199	NT2	iridium 175
NT2	curium 235	NT2	francium 200	NT2	iridium 176
NT2	curium 236	NT2	francium 201	NT2	iridium 177
NT2	curium 237	NT2	francium 202	NT2	lawrencium 251
NT2	curium 238	NT2	francium 203	NT2	lawrencium 252
NT2	curium 240	NT2	francium 204	NT2	lawrencium 253
NT2	curium 241	NT2	francium 205	NT2	lawrencium 254
NT2	curium 242	NT2	francium 206	NT2	lawrencium 255
NT2	curium 243	NT2	francium 207	NT2	lawrencium 256
NT2	curium 244	NT2	francium 208	NT2	lawrencium 257
NT2	curium 245	NT2	francium 209	NT2	lawrencium 258
NT2	curium 246	NT2	francium 210	NT2	lawrencium 259
NT2	curium 247	NT2	francium 211	NT2	lawrencium 260
NT2	curium 248	NT2	francium 212	NT2	lawrencium 264
NT2	curium 250	NT2	francium 213	NT2	lawrencium 265
NT2	darmstadtium 267	NT2	francium 214	NT2	lawrencium 266
NT2	darmstadtium 269	NT2	francium 215	NT2	lead 178
NT2	darmstadtium 270	NT2	francium 216	NT2	lead 180
NT2	darmstadtium 271	NT2	francium 217	NT2	lead 181
NT2	darmstadtium 273	NT2	francium 218	NT2	lead 182
NT2	darmstadtium 279	NT2	francium 219	NT2	lead 183
NT2	dubnium 255	NT2	francium 220	NT2	lead 184
NT2	dubnium 256	NT2	francium 221	NT2	lead 185
NT2	dubnium 257	NT2	francium 222	NT2	lead 186
NT2	dubnium 258	NT2	francium 223	NT2	lead 187
NT2	dubnium 260	NT2	gadolinium 148	NT2	lead 188
NT2	dubnium 261	NT2	gadolinium 149	NT2	lead 189
NT2	dubnium 262	NT2	gadolinium 150	NT2	lead 190
NT2	dubnium 263	NT2	gadolinium 151	NT2	lead 191
NT2	dysprosium 150	NT2	gadolinium 152	NT2	lead 192
NT2	dysprosium 151	NT2	gold 171	NT2	lead 210
NT2	dysprosium 152	NT2	gold 172	NT2	lithium 5
NT2	dysprosium 153	NT2	gold 173	NT2	lutetium 155
NT2	dysprosium 154	NT2	gold 174	NT2	lutetium 156
NT2	einsteinium 241	NT2	gold 175	NT2	lutetium 157
NT2	einsteinium 242	NT2	gold 176	NT2	lutetium 158
NT2	einsteinium 243	NT2	gold 177	NT2	lutetium 159
NT2	einsteinium 244	NT2	gold 178	NT2	meitnerium 266
NT2	einsteinium 245	NT2	gold 179	NT2	meitnerium 268
NT2	einsteinium 246	NT2	gold 181	NT2	meitnerium 270
NT2	einsteinium 247	NT2	gold 183	NT2	meitnerium 275
NT2	einsteinium 248	NT2	gold 184	NT2	meitnerium 276
NT2	einsteinium 249	NT2	gold 185	NT2	mendelevium 245
NT2	einsteinium 251	NT2	hafnium 156	NT2	mendelevium 246
NT2	einsteinium 252	NT2	hafnium 157	NT2	mendelevium 247
NT2	einsteinium 253	NT2	hafnium 158	NT2	mendelevium 248
NT2	einsteinium 254	NT2	hafnium 159	NT2	mendelevium 249
NT2	einsteinium 255	NT2	hafnium 160	NT2	mendelevium 250
NT2	element 112 277	NT2	hafnium 161	NT2	mendelevium 251
NT2	element 113 278	NT2	hafnium 162	NT2	mendelevium 255
NT2	element 113 283	NT2	hafnium 174	NT2	mendelevium 256
NT2	element 113 284	NT2	hassium 263	NT2	mendelevium 257
NT2	element 114 285	NT2	hassium 264	NT2	mendelevium 258
NT2	element 114 286	NT2	hassium 265	NT2	mendelevium 259
NT2	element 114 287	NT2	hassium 266	NT2	mercury 171
NT2	element 114 288	NT2	hassium 267	NT2	mercury 172
NT2	element 114 289	NT2	hassium 269	NT2	mercury 173
NT2	element 115 287	NT2	hassium 270	NT2	mercury 174
NT2	element 115 288	NT2	hassium 271	NT2	mercury 175
NT2	erbium 152	NT2	hassium 275	NT2	mercury 176
NT2	erbium 153	NT2	helium 5	NT2	mercury 177
NT2	erbium 154	NT2	holmium 151	NT2	mercury 178
NT2	erbium 155	NT2	holmium 152	NT2	mercury 179
NT2	europium 147	NT2	holmium 153	NT2	mercury 180
NT2	europium 148	NT2	holmium 154	NT2	mercury 181
NT2	fermium 243	NT2	holmium 155	NT2	mercury 182
NT2	fermium 245	NT2	iodine 108	NT2	mercury 183
NT2	fermium 246	NT2	iodine 111	NT2	mercury 184
NT2	fermium 247	NT2	iridium 164	NT2	mercury 185
NT2	fermium 248	NT2	iridium 165	NT2	mercury 186
NT2	fermium 249	NT2	iridium 166	NT2	mercury 187
NT2	fermium 250	NT2	iridium 167	NT2	mercury 188
NT2	fermium 251	NT2	iridium 168	NT2	neodymium 144



NT2	neptunium 225	NT2	polonium 197	NT2	radon 205
NT2	neptunium 226	NT2	polonium 198	NT2	radon 206
NT2	neptunium 227	NT2	polonium 199	NT2	radon 207
NT2	neptunium 229	NT2	polonium 200	NT2	radon 208
NT2	neptunium 230	NT2	polonium 201	NT2	radon 209
NT2	neptunium 231	NT2	polonium 202	NT2	radon 210
NT2	neptunium 233	NT2	polonium 203	NT2	radon 211
NT2	neptunium 235	NT2	polonium 204	NT2	radon 212
NT2	neptunium 237	NT2	polonium 205	NT2	radon 213
NT2	nobelium 251	NT2	polonium 206	NT2	radon 214
NT2	nobelium 252	NT2	polonium 207	NT2	radon 215
NT2	nobelium 253	NT2	polonium 208	NT2	radon 216
NT2	nobelium 254	NT2	polonium 209	NT2	radon 217
NT2	nobelium 255	NT2	polonium 210	NT2	radon 218
NT2	nobelium 256	NT2	polonium 211	NT2	radon 219
NT2	nobelium 257	NT2	polonium 212	NT2	radon 220
NT2	nobelium 259	NT2	polonium 213	NT2	radon 221
NT2	nobelium 260	NT2	polonium 214	NT2	radon 222
NT2	osmium 162	NT2	polonium 215	NT2	rhenium 160
NT2	osmium 163	NT2	polonium 216	NT2	rhenium 161
NT2	osmium 164	NT2	polonium 217	NT2	rhenium 162
NT2	osmium 165	NT2	polonium 218	NT2	rhenium 163
NT2	osmium 166	NT2	promethium 145	NT2	rhenium 164
NT2	osmium 167	NT2	protactinium 212	NT2	rhenium 165
NT2	osmium 168	NT2	protactinium 213	NT2	rhenium 166
NT2	osmium 169	NT2	protactinium 214	NT2	rhenium 167
NT2	osmium 170	NT2	protactinium 215	NT2	rhenium 168
NT2	osmium 171	NT2	protactinium 216	NT2	rhenium 169
NT2	osmium 172	NT2	protactinium 217	NT2	roentgenium 272
NT2	osmium 173	NT2	protactinium 218	NT2	roentgenium 273
NT2	osmium 174	NT2	protactinium 219	NT2	roentgenium 274
NT2	osmium 186	NT2	protactinium 220	NT2	roentgenium 279
NT2	platinum 168	NT2	protactinium 221	NT2	roentgenium 280
NT2	platinum 169	NT2	protactinium 222	NT2	rutherfordium 253
NT2	platinum 170	NT2	protactinium 223	NT2	rutherfordium 254
NT2	platinum 171	NT2	protactinium 224	NT2	rutherfordium 255
NT2	platinum 172	NT2	protactinium 225	NT2	rutherfordium 256
NT2	platinum 173	NT2	protactinium 226	NT2	rutherfordium 257
NT2	platinum 174	NT2	protactinium 227	NT2	rutherfordium 258
NT2	platinum 175	NT2	protactinium 228	NT2	rutherfordium 259
NT2	platinum 176	NT2	protactinium 229	NT2	rutherfordium 261
NT2	platinum 177	NT2	protactinium 230	NT2	samarium 146
NT2	platinum 178	NT2	protactinium 231	NT2	samarium 147
NT2	platinum 179	NT2	radium 201	NT2	samarium 148
NT2	platinum 180	NT2	radium 202	NT2	seaborgium 258
NT2	platinum 181	NT2	radium 203	NT2	seaborgium 259
NT2	platinum 182	NT2	radium 204	NT2	seaborgium 260
NT2	platinum 183	NT2	radium 205	NT2	seaborgium 261
NT2	platinum 184	NT2	radium 206	NT2	seaborgium 262
NT2	platinum 185	NT2	radium 207	NT2	seaborgium 263
NT2	platinum 186	NT2	radium 208	NT2	seaborgium 264
NT2	platinum 188	NT2	radium 209	NT2	seaborgium 265
NT2	platinum 190	NT2	radium 210	NT2	seaborgium 266
NT2	plutonium 228	NT2	radium 211	NT2	seaborgium 268
NT2	plutonium 229	NT2	radium 212	NT2	seaborgium 270
NT2	plutonium 230	NT2	radium 213	NT2	seaborgium 271
NT2	plutonium 232	NT2	radium 214	NT2	seaborgium 272
NT2	plutonium 233	NT2	radium 215	NT2	tantalum 157
NT2	plutonium 234	NT2	radium 216	NT2	tantalum 158
NT2	plutonium 235	NT2	radium 217	NT2	tantalum 159
NT2	plutonium 236	NT2	radium 218	NT2	tantalum 160
NT2	plutonium 237	NT2	radium 219	NT2	tantalum 161
NT2	plutonium 238	NT2	radium 220	NT2	tantalum 163
NT2	plutonium 239	NT2	radium 221	NT2	tantalum 164
NT2	plutonium 240	NT2	radium 222	NT2	tellurium 105
NT2	plutonium 241	NT2	radium 223	NT2	tellurium 106
NT2	plutonium 242	NT2	radium 224	NT2	tellurium 107
NT2	plutonium 244	NT2	radium 226	NT2	tellurium 108
NT2	polonium 186	NT2	radon 193	NT2	tellurium 109
NT2	polonium 187	NT2	radon 194	NT2	tellurium 110
NT2	polonium 188	NT2	radon 195	NT2	terbium 149
NT2	polonium 189	NT2	radon 197	NT2	terbium 151
NT2	polonium 190	NT2	radon 198	NT2	thallium 177
NT2	polonium 191	NT2	radon 199	NT2	thallium 178
NT2	polonium 192	NT2	radon 200	NT2	thallium 179
NT2	polonium 193	NT2	radon 201	NT2	thallium 180
NT2	polonium 194	NT2	radon 202	NT2	thallium 181
NT2	polonium 195	NT2	radon 203	NT2	thallium 182
NT2	polonium 196	NT2	radon 204	NT2	thallium 183

NT2	thallium 184	NT3	actinium 232	NT3	barium 143
NT2	thallium 185	NT3	actinium 233	NT3	barium 144
NT2	thallium 186	NT3	actinium 234	NT3	barium 145
NT2	thallium 187	NT3	actinium 235	NT3	barium 146
NT2	thorium 209	NT3	actinium 236	NT3	barium 147
NT2	thorium 210	NT3	aluminium 28	NT3	barium 148
NT2	thorium 211	NT3	aluminium 29	NT3	barium 149
NT2	thorium 212	NT3	aluminium 30	NT3	barium 150
NT2	thorium 213	NT3	aluminium 31	NT3	barium 151
NT2	thorium 214	NT3	aluminium 32	NT3	barium 152
NT2	thorium 215	NT3	aluminium 34	NT3	barium 153
NT2	thorium 216	NT3	aluminium 36	NT3	berkelium 248
NT2	thorium 217	NT3	aluminium 37	NT3	berkelium 249
NT2	thorium 218	NT3	aluminium 40	NT3	berkelium 250
NT2	thorium 219	NT3	aluminium 41	NT3	berkelium 251
NT2	thorium 220	NT3	aluminium 42	NT3	berkelium 252
NT2	thorium 221	NT3	americium 242	NT3	berkelium 253
NT2	thorium 222	NT3	americium 244	NT3	berkelium 254
NT2	thorium 223	NT3	americium 245	NT3	beryllium 10
NT2	thorium 224	NT3	americium 246	NT3	beryllium 11
NT2	thorium 225	NT3	americium 247	NT3	beryllium 12
NT2	thorium 226	NT3	americium 248	NT3	beryllium 14
NT2	thorium 227	NT3	americium 249	NT3	bismuth 210
NT2	thorium 228	NT3	antimony 122	NT3	bismuth 211
NT2	thorium 229	NT3	antimony 124	NT3	bismuth 212
NT2	thorium 230	NT3	antimony 125	NT3	bismuth 213
NT2	thorium 232	NT3	antimony 126	NT3	bismuth 214
NT2	thulium 153	NT3	antimony 127	NT3	bismuth 215
NT2	thulium 154	NT3	antimony 128	NT3	bismuth 216
NT2	thulium 155	NT3	antimony 129	NT3	bismuth 217
NT2	thulium 156	NT3	antimony 130	NT3	bismuth 218
NT2	thulium 157	NT3	antimony 131	NT3	boron 12
NT2	tungsten 158	NT3	antimony 132	NT3	boron 13
NT2	tungsten 159	NT3	antimony 133	NT3	boron 14
NT2	tungsten 160	NT3	antimony 134	NT3	boron 15
NT2	tungsten 161	NT3	antimony 135	NT3	boron 16
NT2	tungsten 162	NT3	antimony 136	NT3	boron 17
NT2	tungsten 163	NT3	antimony 137	NT3	boron 19
NT2	tungsten 164	NT3	antimony 138	NT3	bromine 80
NT2	tungsten 165	NT3	antimony 139	NT3	bromine 82
NT2	tungsten 166	NT3	argon 39	NT3	bromine 83
NT2	uranium 217	NT3	argon 41	NT3	bromine 84
NT2	uranium 218	NT3	argon 42	NT3	bromine 85
NT2	uranium 219	NT3	argon 43	NT3	bromine 86
NT2	uranium 220	NT3	argon 44	NT3	bromine 87
NT2	uranium 221	NT3	argon 45	NT3	bromine 88
NT2	uranium 222	NT3	argon 46	NT3	bromine 89
NT2	uranium 223	NT3	argon 48	NT3	bromine 90
NT2	uranium 224	NT3	argon 52	NT3	bromine 91
NT2	uranium 225	NT3	argon 53	NT3	bromine 92
NT2	uranium 226	NT3	arsenic 74	NT3	bromine 93
NT2	uranium 227	NT3	arsenic 76	NT3	bromine 94
NT2	uranium 228	NT3	arsenic 77	NT3	bromine 95
NT2	uranium 229	NT3	arsenic 78	NT3	bromine 96
NT2	uranium 230	NT3	arsenic 79	NT3	bromine 97
NT2	uranium 231	NT3	arsenic 80	NT3	cadmium 113
NT2	uranium 232	NT3	arsenic 81	NT3	cadmium 115
NT2	uranium 233	NT3	arsenic 82	NT3	cadmium 117
NT2	uranium 234	NT3	arsenic 83	NT3	cadmium 118
NT2	uranium 235	NT3	arsenic 84	NT3	cadmium 119
NT2	uranium 236	NT3	arsenic 85	NT3	cadmium 120
NT2	uranium 238	NT3	arsenic 86	NT3	cadmium 121
NT2	xenon 109	NT3	arsenic 87	NT3	cadmium 122
NT2	xenon 110	NT3	arsenic 88	NT3	cadmium 123
NT2	xenon 111	NT3	arsenic 89	NT3	cadmium 124
NT2	xenon 112	NT3	arsenic 90	NT3	cadmium 125
NT2	ytterbium 154	NT3	arsenic 91	NT3	cadmium 126
NT2	ytterbium 155	NT3	arsenic 92	NT3	cadmium 127
NT2	ytterbium 156	NT3	astatine 217	NT3	cadmium 128
NT2	ytterbium 157	NT3	astatine 218	NT3	cadmium 129
NT2	ytterbium 158	NT3	astatine 219	NT3	cadmium 130
NT1	beta decay radioisotopes	NT3	astatine 220	NT3	cadmium 131
NT2	beta-minus decay radioisotopes	NT3	astatine 221	NT3	cadmium 132
NT3	actinium 226	NT3	astatine 222	NT3	calcium 45
NT3	actinium 227	NT3	astatine 223	NT3	calcium 47
NT3	actinium 228	NT3	barium 139	NT3	calcium 49
NT3	actinium 229	NT3	barium 140	NT3	calcium 50
NT3	actinium 230	NT3	barium 141	NT3	calcium 51
NT3	actinium 231	NT3	barium 142	NT3	calcium 52

NT3	calcium 53	NT3	cobalt 74	NT3	gadolinium 162
NT3	calcium 54	NT3	cobalt 75	NT3	gadolinium 163
NT3	calcium 55	NT3	copper 64	NT3	gadolinium 164
NT3	calcium 56	NT3	copper 66	NT3	gadolinium 165
NT3	calcium 57	NT3	copper 67	NT3	gadolinium 166
NT3	calcium 58	NT3	copper 68	NT3	gadolinium 168
NT3	calcium 60	NT3	copper 69	NT3	gallium 70
NT3	californium 253	NT3	copper 70	NT3	gallium 72
NT3	californium 255	NT3	copper 71	NT3	gallium 73
NT3	carbon 14	NT3	copper 72	NT3	gallium 74
NT3	carbon 15	NT3	copper 73	NT3	gallium 75
NT3	carbon 16	NT3	copper 74	NT3	gallium 76
NT3	carbon 17	NT3	copper 75	NT3	gallium 77
NT3	carbon 18	NT3	copper 76	NT3	gallium 78
NT3	cerium 141	NT3	copper 77	NT3	gallium 79
NT3	cerium 143	NT3	copper 78	NT3	gallium 80
NT3	cerium 144	NT3	copper 79	NT3	gallium 81
NT3	cerium 145	NT3	copper 80	NT3	gallium 82
NT3	cerium 146	NT3	curium 249	NT3	gallium 83
NT3	cerium 147	NT3	curium 250	NT3	gallium 84
NT3	cerium 148	NT3	curium 251	NT3	gallium 85
NT3	cerium 149	NT3	dysprosium 165	NT3	gallium 86
NT3	cerium 150	NT3	dysprosium 166	NT3	germanium 75
NT3	cerium 151	NT3	dysprosium 167	NT3	germanium 77
NT3	cerium 152	NT3	dysprosium 168	NT3	germanium 78
NT3	cerium 153	NT3	dysprosium 169	NT3	germanium 79
NT3	cerium 154	NT3	dysprosium 170	NT3	germanium 80
NT3	cerium 155	NT3	dysprosium 171	NT3	germanium 81
NT3	cerium 156	NT3	dysprosium 172	NT3	germanium 82
NT3	cerium 157	NT3	dysprosium 173	NT3	germanium 83
NT3	cesium 130	NT3	einsteinium 254	NT3	germanium 84
NT3	cesium 132	NT3	einsteinium 255	NT3	germanium 85
NT3	cesium 134	NT3	einsteinium 256	NT3	germanium 86
NT3	cesium 135	NT3	einsteinium 257	NT3	germanium 87
NT3	cesium 136	NT3	erbium 169	NT3	germanium 88
NT3	cesium 137	NT3	erbium 171	NT3	germanium 89
NT3	cesium 138	NT3	erbium 172	NT3	gold 196
NT3	cesium 139	NT3	erbium 173	NT3	gold 198
NT3	cesium 140	NT3	erbium 174	NT3	gold 199
NT3	cesium 141	NT3	erbium 175	NT3	gold 200
NT3	cesium 142	NT3	erbium 176	NT3	gold 201
NT3	cesium 143	NT3	erbium 177	NT3	gold 202
NT3	cesium 144	NT3	europium 150	NT3	gold 203
NT3	cesium 145	NT3	europium 152	NT3	gold 204
NT3	cesium 146	NT3	europium 154	NT3	gold 205
NT3	cesium 147	NT3	europium 155	NT3	hafnium 181
NT3	cesium 148	NT3	europium 156	NT3	hafnium 182
NT3	cesium 149	NT3	europium 157	NT3	hafnium 183
NT3	cesium 150	NT3	europium 158	NT3	hafnium 184
NT3	cesium 151	NT3	europium 159	NT3	hafnium 187
NT3	chlorine 36	NT3	europium 160	NT3	hafnium 188
NT3	chlorine 38	NT3	europium 161	NT3	helium 6
NT3	chlorine 39	NT3	europium 162	NT3	helium 7
NT3	chlorine 40	NT3	europium 163	NT3	helium 8
NT3	chlorine 41	NT3	europium 164	NT3	holmium 164
NT3	chlorine 50	NT3	europium 165	NT3	holmium 166
NT3	chromium 55	NT3	europium 166	NT3	holmium 167
NT3	chromium 56	NT3	europium 167	NT3	holmium 168
NT3	chromium 57	NT3	fluorine 20	NT3	holmium 169
NT3	chromium 58	NT3	fluorine 21	NT3	holmium 170
NT3	chromium 59	NT3	fluorine 22	NT3	holmium 171
NT3	chromium 60	NT3	fluorine 23	NT3	holmium 172
NT3	chromium 62	NT3	fluorine 24	NT3	holmium 173
NT3	chromium 63	NT3	fluorine 25	NT3	holmium 174
NT3	chromium 64	NT3	fluorine 26	NT3	holmium 175
NT3	chromium 65	NT3	fluorine 27	NT3	indium 112
NT3	chromium 66	NT3	francium 220	NT3	indium 114
NT3	chromium 67	NT3	francium 222	NT3	indium 115
NT3	cobalt 60	NT3	francium 223	NT3	indium 116
NT3	cobalt 61	NT3	francium 224	NT3	indium 117
NT3	cobalt 62	NT3	francium 225	NT3	indium 118
NT3	cobalt 63	NT3	francium 226	NT3	indium 119
NT3	cobalt 64	NT3	francium 227	NT3	indium 120
NT3	cobalt 65	NT3	francium 228	NT3	indium 121
NT3	cobalt 66	NT3	francium 229	NT3	indium 122
NT3	cobalt 67	NT3	francium 230	NT3	indium 123
NT3	cobalt 71	NT3	francium 231	NT3	indium 124
NT3	cobalt 72	NT3	gadolinium 159	NT3	indium 125
NT3	cobalt 73	NT3	gadolinium 161	NT3	indium 126

NT3	indium 127	NT3	lead 214	NT3	neon 33
NT3	indium 128	NT3	lithium 11	NT3	neon 34
NT3	indium 129	NT3	lithium 13	NT3	neptunium 236
NT3	indium 130	NT3	lithium 8	NT3	neptunium 238
NT3	indium 131	NT3	lithium 9	NT3	neptunium 239
NT3	indium 132	NT3	lutetium 176	NT3	neptunium 240
NT3	indium 133	NT3	lutetium 177	NT3	neptunium 241
NT3	indium 134	NT3	lutetium 178	NT3	neptunium 242
NT3	indium 135	NT3	lutetium 179	NT3	neptunium 243
NT3	iodine 126	NT3	lutetium 180	NT3	neptunium 244
NT3	iodine 128	NT3	lutetium 181	NT3	neutron-rich isotopes
NT3	iodine 129	NT3	lutetium 182	NT3	nickel 63
NT3	iodine 130	NT3	lutetium 183	NT3	nickel 65
NT3	iodine 131	NT3	lutetium 184	NT3	nickel 66
NT3	iodine 132	NT3	lutetium 187	NT3	nickel 67
NT3	iodine 133	NT3	magnesium 27	NT3	nickel 69
NT3	iodine 134	NT3	magnesium 28	NT3	nickel 70
NT3	iodine 135	NT3	magnesium 29	NT3	nickel 71
NT3	iodine 136	NT3	magnesium 30	NT3	nickel 72
NT3	iodine 137	NT3	magnesium 31	NT3	nickel 73
NT3	iodine 138	NT3	magnesium 32	NT3	nickel 74
NT3	iodine 139	NT3	magnesium 33	NT3	nickel 75
NT3	iodine 140	NT3	magnesium 34	NT3	nickel 76
NT3	iodine 141	NT3	magnesium 37	NT3	nickel 77
NT3	iodine 142	NT3	magnesium 38	NT3	niobium 100
NT3	iodine 143	NT3	magnesium 39	NT3	niobium 101
NT3	iodine 144	NT3	magnesium 40	NT3	niobium 102
NT3	iridium 192	NT3	manganese 56	NT3	niobium 103
NT3	iridium 194	NT3	manganese 57	NT3	niobium 104
NT3	iridium 195	NT3	manganese 58	NT3	niobium 105
NT3	iridium 196	NT3	manganese 59	NT3	niobium 106
NT3	iridium 197	NT3	manganese 60	NT3	niobium 107
NT3	iridium 198	NT3	manganese 61	NT3	niobium 108
NT3	iridium 199	NT3	manganese 62	NT3	niobium 109
NT3	iron 59	NT3	manganese 63	NT3	niobium 110
NT3	iron 60	NT3	manganese 66	NT3	niobium 111
NT3	iron 61	NT3	manganese 67	NT3	niobium 112
NT3	iron 62	NT3	manganese 68	NT3	niobium 113
NT3	iron 63	NT3	manganese 69	NT3	niobium 94
NT3	iron 64	NT3	mercury 203	NT3	niobium 95
NT3	iron 69	NT3	mercury 205	NT3	niobium 96
NT3	iron 70	NT3	mercury 206	NT3	niobium 97
NT3	iron 71	NT3	molybdenum 101	NT3	niobium 98
NT3	iron 72	NT3	molybdenum 102	NT3	niobium 99
NT3	krypton 100	NT3	molybdenum 103	NT3	nitrogen 16
NT3	krypton 85	NT3	molybdenum 104	NT3	nitrogen 17
NT3	krypton 87	NT3	molybdenum 105	NT3	nitrogen 18
NT3	krypton 88	NT3	molybdenum 106	NT3	nitrogen 19
NT3	krypton 89	NT3	molybdenum 107	NT3	nitrogen 20
NT3	krypton 90	NT3	molybdenum 108	NT3	nitrogen 22
NT3	krypton 91	NT3	molybdenum 109	NT3	nitrogen 23
NT3	krypton 92	NT3	molybdenum 110	NT3	osmium 191
NT3	krypton 93	NT3	molybdenum 111	NT3	osmium 193
NT3	krypton 94	NT3	molybdenum 112	NT3	osmium 194
NT3	krypton 95	NT3	molybdenum 113	NT3	osmium 195
NT3	krypton 97	NT3	molybdenum 114	NT3	osmium 196
NT3	krypton 99	NT3	molybdenum 115	NT3	osmium 197
NT3	lanthanum 138	NT3	molybdenum 99	NT3	osmium 199
NT3	lanthanum 140	NT3	neodymium 147	NT3	oxygen 19
NT3	lanthanum 141	NT3	neodymium 149	NT3	oxygen 20
NT3	lanthanum 142	NT3	neodymium 151	NT3	oxygen 21
NT3	lanthanum 143	NT3	neodymium 152	NT3	oxygen 22
NT3	lanthanum 144	NT3	neodymium 153	NT3	oxygen 23
NT3	lanthanum 145	NT3	neodymium 154	NT3	oxygen 24
NT3	lanthanum 146	NT3	neodymium 155	NT3	palladium 107
NT3	lanthanum 147	NT3	neodymium 156	NT3	palladium 109
NT3	lanthanum 148	NT3	neodymium 157	NT3	palladium 111
NT3	lanthanum 149	NT3	neodymium 158	NT3	palladium 112
NT3	lanthanum 150	NT3	neodymium 159	NT3	palladium 113
NT3	lanthanum 151	NT3	neodymium 160	NT3	palladium 114
NT3	lanthanum 152	NT3	neodymium 161	NT3	palladium 115
NT3	lanthanum 153	NT3	neon 23	NT3	palladium 116
NT3	lanthanum 154	NT3	neon 24	NT3	palladium 117
NT3	lanthanum 155	NT3	neon 25	NT3	palladium 118
NT3	lead 209	NT3	neon 26	NT3	palladium 119
NT3	lead 210	NT3	neon 27	NT3	palladium 120
NT3	lead 211	NT3	neon 29	NT3	palladium 121
NT3	lead 212	NT3	neon 30	NT3	palladium 122
NT3	lead 213	NT3	neon 31	NT3	palladium 123

NT3	palladium 124	NT3	protactinium 238	NT3	samarium 151
NT3	phosphorus 32	NT3	protactinium 239	NT3	samarium 153
NT3	phosphorus 33	NT3	protactinium 240	NT3	samarium 155
NT3	phosphorus 34	NT3	radium 225	NT3	samarium 156
NT3	phosphorus 35	NT3	radium 227	NT3	samarium 157
NT3	phosphorus 36	NT3	radium 228	NT3	samarium 158
NT3	phosphorus 37	NT3	radium 229	NT3	samarium 159
NT3	phosphorus 38	NT3	radium 230	NT3	samarium 160
NT3	phosphorus 40	NT3	radium 231	NT3	samarium 161
NT3	phosphorus 41	NT3	radium 232	NT3	samarium 162
NT3	phosphorus 42	NT3	radon 221	NT3	samarium 163
NT3	platinum 197	NT3	radon 223	NT3	samarium 164
NT3	platinum 199	NT3	radon 224	NT3	samarium 165
NT3	platinum 200	NT3	radon 225	NT3	scandium 46
NT3	platinum 201	NT3	radon 226	NT3	scandium 47
NT3	plutonium 241	NT3	radon 227	NT3	scandium 48
NT3	plutonium 243	NT3	radon 228	NT3	scandium 49
NT3	plutonium 245	NT3	rhenium 186	NT3	scandium 50
NT3	plutonium 246	NT3	rhenium 187	NT3	scandium 51
NT3	polonium 215	NT3	rhenium 188	NT3	scandium 52
NT3	polonium 218	NT3	rhenium 189	NT3	scandium 53
NT3	potassium 40	NT3	rhenium 190	NT3	scandium 56
NT3	potassium 42	NT3	rhenium 191	NT3	scandium 57
NT3	potassium 43	NT3	rhenium 192	NT3	scandium 58
NT3	potassium 44	NT3	rhenium 193	NT3	scandium 59
NT3	potassium 45	NT3	rhenium 194	NT3	scandium 60
NT3	potassium 46	NT3	rhodium 102	NT3	selenium 79
NT3	potassium 47	NT3	rhodium 104	NT3	selenium 81
NT3	potassium 48	NT3	rhodium 105	NT3	selenium 83
NT3	potassium 49	NT3	rhodium 106	NT3	selenium 84
NT3	potassium 50	NT3	rhodium 107	NT3	selenium 85
NT3	potassium 51	NT3	rhodium 108	NT3	selenium 86
NT3	potassium 52	NT3	rhodium 109	NT3	selenium 87
NT3	potassium 53	NT3	rhodium 110	NT3	selenium 88
NT3	potassium 54	NT3	rhodium 111	NT3	selenium 89
NT3	potassium 55	NT3	rhodium 112	NT3	selenium 91
NT3	praseodymium 142	NT3	rhodium 113	NT3	silicon 31
NT3	praseodymium 143	NT3	rhodium 114	NT3	silicon 32
NT3	praseodymium 144	NT3	rhodium 115	NT3	silicon 33
NT3	praseodymium 145	NT3	rhodium 116	NT3	silicon 34
NT3	praseodymium 146	NT3	rhodium 117	NT3	silicon 35
NT3	praseodymium 147	NT3	rhodium 118	NT3	silicon 36
NT3	praseodymium 148	NT3	rhodium 119	NT3	silicon 37
NT3	praseodymium 149	NT3	rhodium 120	NT3	silicon 38
NT3	praseodymium 150	NT3	rhodium 121	NT3	silicon 39
NT3	praseodymium 151	NT3	rhodium 122	NT3	silicon 43
NT3	praseodymium 152	NT3	rubidium 100	NT3	silicon 44
NT3	praseodymium 153	NT3	rubidium 84	NT3	silver 108
NT3	praseodymium 154	NT3	rubidium 86	NT3	silver 110
NT3	praseodymium 155	NT3	rubidium 87	NT3	silver 111
NT3	praseodymium 156	NT3	rubidium 88	NT3	silver 112
NT3	praseodymium 157	NT3	rubidium 89	NT3	silver 113
NT3	praseodymium 158	NT3	rubidium 90	NT3	silver 114
NT3	praseodymium 159	NT3	rubidium 91	NT3	silver 115
NT3	promethium 146	NT3	rubidium 92	NT3	silver 116
NT3	promethium 147	NT3	rubidium 93	NT3	silver 117
NT3	promethium 148	NT3	rubidium 94	NT3	silver 118
NT3	promethium 149	NT3	rubidium 95	NT3	silver 119
NT3	promethium 150	NT3	rubidium 96	NT3	silver 120
NT3	promethium 151	NT3	rubidium 97	NT3	silver 121
NT3	promethium 152	NT3	rubidium 98	NT3	silver 122
NT3	promethium 153	NT3	rubidium 99	NT3	silver 123
NT3	promethium 154	NT3	ruthenium 103	NT3	silver 124
NT3	promethium 155	NT3	ruthenium 105	NT3	silver 125
NT3	promethium 156	NT3	ruthenium 106	NT3	silver 126
NT3	promethium 157	NT3	ruthenium 107	NT3	silver 127
NT3	promethium 158	NT3	ruthenium 108	NT3	silver 128
NT3	promethium 159	NT3	ruthenium 109	NT3	silver 129
NT3	promethium 160	NT3	ruthenium 110	NT3	silver 130
NT3	promethium 161	NT3	ruthenium 111	NT3	sodium 24
NT3	promethium 162	NT3	ruthenium 112	NT3	sodium 25
NT3	promethium 163	NT3	ruthenium 113	NT3	sodium 26
NT3	protactinium 230	NT3	ruthenium 114	NT3	sodium 27
NT3	protactinium 232	NT3	ruthenium 115	NT3	sodium 28
NT3	protactinium 233	NT3	ruthenium 116	NT3	sodium 29
NT3	protactinium 234	NT3	ruthenium 117	NT3	sodium 30
NT3	protactinium 235	NT3	ruthenium 118	NT3	sodium 31
NT3	protactinium 236	NT3	ruthenium 119	NT3	sodium 32
NT3	protactinium 237	NT3	ruthenium 120	NT3	sodium 33

NT3	sodium 34	NT3	terbium 166	NT3	vanadium 63
NT3	sodium 35	NT3	terbium 167	NT3	vanadium 64
NT3	sodium 37	NT3	terbium 168	NT3	vanadium 65
NT3	strontium 100	NT3	terbium 169	NT3	xenon 133
NT3	strontium 101	NT3	terbium 170	NT3	xenon 135
NT3	strontium 102	NT3	terbium 171	NT3	xenon 137
NT3	strontium 103	NT3	thallium 204	NT3	xenon 138
NT3	strontium 104	NT3	thallium 206	NT3	xenon 139
NT3	strontium 105	NT3	thallium 207	NT3	xenon 140
NT3	strontium 89	NT3	thallium 208	NT3	xenon 141
NT3	strontium 90	NT3	thallium 209	NT3	xenon 142
NT3	strontium 91	NT3	thallium 210	NT3	xenon 143
NT3	strontium 92	NT3	thallium 211	NT3	xenon 144
NT3	strontium 93	NT3	thallium 212	NT3	xenon 145
NT3	strontium 94	NT3	thorium 231	NT3	xenon 147
NT3	strontium 95	NT3	thorium 233	NT3	ytterbium 175
NT3	strontium 96	NT3	thorium 234	NT3	ytterbium 177
NT3	strontium 97	NT3	thorium 235	NT3	ytterbium 178
NT3	strontium 98	NT3	thorium 236	NT3	ytterbium 179
NT3	strontium 99	NT3	thorium 237	NT3	ytterbium 180
NT3	sulfur 35	NT3	thulium 168	NT3	ytterbium 181
NT3	sulfur 37	NT3	thulium 170	NT3	yttrium 100
NT3	sulfur 38	NT3	thulium 171	NT3	yttrium 101
NT3	sulfur 39	NT3	thulium 172	NT3	yttrium 102
NT3	sulfur 40	NT3	thulium 173	NT3	yttrium 103
NT3	sulfur 43	NT3	thulium 174	NT3	yttrium 104
NT3	tantalum 180	NT3	thulium 175	NT3	yttrium 105
NT3	tantalum 182	NT3	thulium 176	NT3	yttrium 106
NT3	tantalum 183	NT3	thulium 177	NT3	yttrium 107
NT3	tantalum 184	NT3	thulium 178	NT3	yttrium 108
NT3	tantalum 185	NT3	thulium 179	NT3	yttrium 90
NT3	tantalum 186	NT3	tin 121	NT3	yttrium 91
NT3	tantalum 187	NT3	tin 123	NT3	yttrium 92
NT3	tantalum 188	NT3	tin 125	NT3	yttrium 93
NT3	tantalum 189	NT3	tin 126	NT3	yttrium 94
NT3	tantalum 190	NT3	tin 127	NT3	yttrium 95
NT3	technetium 100	NT3	tin 128	NT3	yttrium 96
NT3	technetium 101	NT3	tin 129	NT3	yttrium 97
NT3	technetium 102	NT3	tin 130	NT3	yttrium 98
NT3	technetium 103	NT3	tin 131	NT3	yttrium 99
NT3	technetium 104	NT3	tin 132	NT3	zinc 69
NT3	technetium 105	NT3	tin 133	NT3	zinc 71
NT3	technetium 106	NT3	tin 134	NT3	zinc 72
NT3	technetium 107	NT3	tin 135	NT3	zinc 73
NT3	technetium 108	NT3	tin 136	NT3	zinc 74
NT3	technetium 109	NT3	tin 137	NT3	zinc 75
NT3	technetium 110	NT3	titanium 51	NT3	zinc 76
NT3	technetium 111	NT3	titanium 52	NT3	zinc 77
NT3	technetium 112	NT3	titanium 53	NT3	zinc 78
NT3	technetium 113	NT3	titanium 54	NT3	zinc 79
NT3	technetium 114	NT3	titanium 55	NT3	zinc 80
NT3	technetium 115	NT3	titanium 56	NT3	zinc 81
NT3	technetium 116	NT3	titanium 58	NT3	zinc 82
NT3	technetium 117	NT3	titanium 59	NT3	zinc 83
NT3	technetium 118	NT3	titanium 60	NT3	zirconium 100
NT3	technetium 98	NT3	titanium 61	NT3	zirconium 101
NT3	technetium 99	NT3	titanium 62	NT3	zirconium 102
NT3	tellurium 127	NT3	titanium 63	NT3	zirconium 103
NT3	tellurium 129	NT3	tritium	NT3	zirconium 104
NT3	tellurium 131	NT3	tungsten 185	NT3	zirconium 105
NT3	tellurium 132	NT3	tungsten 187	NT3	zirconium 106
NT3	tellurium 133	NT3	tungsten 188	NT3	zirconium 107
NT3	tellurium 134	NT3	tungsten 189	NT3	zirconium 108
NT3	tellurium 135	NT3	tungsten 191	NT3	zirconium 109
NT3	tellurium 136	NT3	uranium 237	NT3	zirconium 110
NT3	tellurium 137	NT3	uranium 239	NT3	zirconium 93
NT3	tellurium 138	NT3	uranium 240	NT3	zirconium 95
NT3	tellurium 139	NT3	uranium 241	NT3	zirconium 97
NT3	tellurium 140	NT3	uranium 242	NT3	zirconium 98
NT3	tellurium 141	NT3	vanadium 50	NT3	zirconium 99
NT3	tellurium 142	NT3	vanadium 52	NT2	beta-plus decay radioisotopes
NT3	terbium 156	NT3	vanadium 53	NT3	aluminium 22
NT3	terbium 158	NT3	vanadium 54	NT3	aluminium 23
NT3	terbium 160	NT3	vanadium 55	NT3	aluminium 24
NT3	terbium 161	NT3	vanadium 56	NT3	aluminium 25
NT3	terbium 162	NT3	vanadium 57	NT3	aluminium 26
NT3	terbium 163	NT3	vanadium 58	NT3	americium 235
NT3	terbium 164	NT3	vanadium 61	NT3	americium 236
NT3	terbium 165	NT3	vanadium 62	NT3	antimony 104

<b>NT3</b> antimony 105	<b>NT3</b> carbon 10	<b>NT3</b> erbium 155
<b>NT3</b> antimony 108	<b>NT3</b> carbon 11	<b>NT3</b> erbium 156
<b>NT3</b> antimony 110	<b>NT3</b> carbon 9	<b>NT3</b> erbium 157
<b>NT3</b> antimony 111	<b>NT3</b> cerium 121	<b>NT3</b> erbium 158
<b>NT3</b> antimony 112	<b>NT3</b> cerium 125	<b>NT3</b> erbium 159
<b>NT3</b> antimony 113	<b>NT3</b> cerium 127	<b>NT3</b> erbium 161
<b>NT3</b> antimony 114	<b>NT3</b> cerium 128	<b>NT3</b> erbium 163
<b>NT3</b> antimony 115	<b>NT3</b> cerium 129	<b>NT3</b> europium 132
<b>NT3</b> antimony 116	<b>NT3</b> cerium 130	<b>NT3</b> europium 134
<b>NT3</b> antimony 117	<b>NT3</b> cerium 131	<b>NT3</b> europium 135
<b>NT3</b> antimony 118	<b>NT3</b> cerium 132	<b>NT3</b> europium 136
<b>NT3</b> antimony 120	<b>NT3</b> cerium 133	<b>NT3</b> europium 138
<b>NT3</b> antimony 122	<b>NT3</b> cerium 135	<b>NT3</b> europium 139
<b>NT3</b> argon 31	<b>NT3</b> cerium 137	<b>NT3</b> europium 140
<b>NT3</b> argon 32	<b>NT3</b> cesium 114	<b>NT3</b> europium 141
<b>NT3</b> argon 33	<b>NT3</b> cesium 115	<b>NT3</b> europium 142
<b>NT3</b> argon 34	<b>NT3</b> cesium 116	<b>NT3</b> europium 143
<b>NT3</b> argon 35	<b>NT3</b> cesium 117	<b>NT3</b> europium 144
<b>NT3</b> arsenic 66	<b>NT3</b> cesium 118	<b>NT3</b> europium 145
<b>NT3</b> arsenic 67	<b>NT3</b> cesium 119	<b>NT3</b> europium 146
<b>NT3</b> arsenic 68	<b>NT3</b> cesium 120	<b>NT3</b> europium 147
<b>NT3</b> arsenic 69	<b>NT3</b> cesium 121	<b>NT3</b> europium 148
<b>NT3</b> arsenic 70	<b>NT3</b> cesium 122	<b>NT3</b> europium 150
<b>NT3</b> arsenic 71	<b>NT3</b> cesium 123	<b>NT3</b> europium 152
<b>NT3</b> arsenic 72	<b>NT3</b> cesium 124	<b>NT3</b> fluorine 17
<b>NT3</b> arsenic 74	<b>NT3</b> cesium 125	<b>NT3</b> fluorine 18
<b>NT3</b> astatine 205	<b>NT3</b> cesium 126	<b>NT3</b> gadolinium 135
<b>NT3</b> astatine 206	<b>NT3</b> cesium 127	<b>NT3</b> gadolinium 137
<b>NT3</b> barium 114	<b>NT3</b> cesium 128	<b>NT3</b> gadolinium 139
<b>NT3</b> barium 115	<b>NT3</b> cesium 129	<b>NT3</b> gadolinium 142
<b>NT3</b> barium 116	<b>NT3</b> cesium 130	<b>NT3</b> gadolinium 143
<b>NT3</b> barium 117	<b>NT3</b> cesium 132	<b>NT3</b> gadolinium 144
<b>NT3</b> barium 118	<b>NT3</b> chlorine 31	<b>NT3</b> gadolinium 145
<b>NT3</b> barium 119	<b>NT3</b> chlorine 32	<b>NT3</b> gadolinium 146
<b>NT3</b> barium 120	<b>NT3</b> chlorine 33	<b>NT3</b> gadolinium 147
<b>NT3</b> barium 121	<b>NT3</b> chlorine 34	<b>NT3</b> gallium 60
<b>NT3</b> barium 122	<b>NT3</b> chlorine 36	<b>NT3</b> gallium 62
<b>NT3</b> barium 123	<b>NT3</b> chromium 42	<b>NT3</b> gallium 63
<b>NT3</b> barium 124	<b>NT3</b> chromium 45	<b>NT3</b> gallium 64
<b>NT3</b> barium 125	<b>NT3</b> chromium 46	<b>NT3</b> gallium 65
<b>NT3</b> barium 126	<b>NT3</b> chromium 47	<b>NT3</b> gallium 66
<b>NT3</b> barium 127	<b>NT3</b> chromium 49	<b>NT3</b> gallium 68
<b>NT3</b> barium 129	<b>NT3</b> cobalt 52	<b>NT3</b> germanium 61
<b>NT3</b> berkelium 236	<b>NT3</b> cobalt 53	<b>NT3</b> germanium 63
<b>NT3</b> berkelium 238	<b>NT3</b> cobalt 54	<b>NT3</b> germanium 64
<b>NT3</b> bismuth 194	<b>NT3</b> cobalt 55	<b>NT3</b> germanium 65
<b>NT3</b> bismuth 197	<b>NT3</b> cobalt 56	<b>NT3</b> germanium 66
<b>NT3</b> bismuth 200	<b>NT3</b> cobalt 58	<b>NT3</b> germanium 67
<b>NT3</b> bismuth 202	<b>NT3</b> copper 56	<b>NT3</b> germanium 69
<b>NT3</b> bismuth 203	<b>NT3</b> copper 57	<b>NT3</b> gold 182
<b>NT3</b> bismuth 205	<b>NT3</b> copper 58	<b>NT3</b> gold 184
<b>NT3</b> bismuth 206	<b>NT3</b> copper 59	<b>NT3</b> gold 185
<b>NT3</b> bismuth 207	<b>NT3</b> copper 60	<b>NT3</b> gold 186
<b>NT3</b> boron 8	<b>NT3</b> copper 61	<b>NT3</b> gold 187
<b>NT3</b> bromine 69	<b>NT3</b> copper 62	<b>NT3</b> gold 188
<b>NT3</b> bromine 70	<b>NT3</b> copper 64	<b>NT3</b> gold 189
<b>NT3</b> bromine 71	<b>NT3</b> curium 232	<b>NT3</b> gold 190
<b>NT3</b> bromine 72	<b>NT3</b> dysprosium 140	<b>NT3</b> gold 192
<b>NT3</b> bromine 73	<b>NT3</b> dysprosium 145	<b>NT3</b> gold 194
<b>NT3</b> bromine 74	<b>NT3</b> dysprosium 146	<b>NT3</b> gold 196
<b>NT3</b> bromine 75	<b>NT3</b> dysprosium 147	<b>NT3</b> hafnium 154
<b>NT3</b> bromine 76	<b>NT3</b> dysprosium 148	<b>NT3</b> hafnium 155
<b>NT3</b> bromine 77	<b>NT3</b> dysprosium 149	<b>NT3</b> hafnium 162
<b>NT3</b> bromine 78	<b>NT3</b> dysprosium 150	<b>NT3</b> hafnium 163
<b>NT3</b> bromine 80	<b>NT3</b> dysprosium 151	<b>NT3</b> hafnium 166
<b>NT3</b> cadmium 100	<b>NT3</b> dysprosium 152	<b>NT3</b> hafnium 167
<b>NT3</b> cadmium 101	<b>NT3</b> dysprosium 153	<b>NT3</b> hafnium 168
<b>NT3</b> cadmium 102	<b>NT3</b> dysprosium 155	<b>NT3</b> hafnium 169
<b>NT3</b> cadmium 103	<b>NT3</b> dysprosium 157	<b>NT3</b> holmium 145
<b>NT3</b> cadmium 104	<b>NT3</b> erbium 145	<b>NT3</b> holmium 146
<b>NT3</b> cadmium 105	<b>NT3</b> erbium 146	<b>NT3</b> holmium 147
<b>NT3</b> cadmium 107	<b>NT3</b> erbium 147	<b>NT3</b> holmium 148
<b>NT3</b> cadmium 97	<b>NT3</b> erbium 148	<b>NT3</b> holmium 149
<b>NT3</b> cadmium 98	<b>NT3</b> erbium 149	<b>NT3</b> holmium 150
<b>NT3</b> cadmium 99	<b>NT3</b> erbium 150	<b>NT3</b> holmium 151
<b>NT3</b> calcium 36	<b>NT3</b> erbium 151	<b>NT3</b> holmium 152
<b>NT3</b> calcium 37	<b>NT3</b> erbium 152	<b>NT3</b> holmium 153
<b>NT3</b> calcium 38	<b>NT3</b> erbium 153	<b>NT3</b> holmium 154
<b>NT3</b> calcium 39	<b>NT3</b> erbium 154	<b>NT3</b> holmium 155

NT3	holmium 156	NT3	lead 199	NT3	osmium 175
NT3	holmium 157	NT3	lead 201	NT3	osmium 176
NT3	holmium 158	NT3	lutetium 153	NT3	osmium 177
NT3	holmium 160	NT3	lutetium 161	NT3	osmium 178
NT3	holmium 162	NT3	lutetium 162	NT3	osmium 179
NT3	indium 100	NT3	lutetium 163	NT3	osmium 181
NT3	indium 103	NT3	lutetium 164	NT3	osmium 183
NT3	indium 104	NT3	lutetium 165	NT3	oxygen 13
NT3	indium 105	NT3	lutetium 166	NT3	oxygen 14
NT3	indium 106	NT3	lutetium 167	NT3	oxygen 15
NT3	indium 107	NT3	lutetium 168	NT3	palladium 101
NT3	indium 108	NT3	lutetium 169	NT3	palladium 93
NT3	indium 109	NT3	lutetium 170	NT3	palladium 94
NT3	indium 110	NT3	lutetium 171	NT3	palladium 95
NT3	indium 112	NT3	lutetium 174	NT3	palladium 97
NT3	indium 114	NT3	magnesium 20	NT3	palladium 98
NT3	iodine 110	NT3	magnesium 21	NT3	palladium 99
NT3	iodine 111	NT3	magnesium 22	NT3	phosphorus 26
NT3	iodine 112	NT3	magnesium 23	NT3	phosphorus 28
NT3	iodine 113	NT3	manganese 48	NT3	phosphorus 29
NT3	iodine 114	NT3	manganese 49	NT3	phosphorus 30
NT3	iodine 115	NT3	manganese 50	NT3	platinum 174
NT3	iodine 116	NT3	manganese 51	NT3	platinum 182
NT3	iodine 117	NT3	manganese 52	NT3	platinum 183
NT3	iodine 118	NT3	mercury 179	NT3	platinum 184
NT3	iodine 119	NT3	mercury 181	NT3	platinum 185
NT3	iodine 120	NT3	mercury 182	NT3	platinum 187
NT3	iodine 121	NT3	mercury 183	NT3	platinum 189
NT3	iodine 122	NT3	mercury 184	NT3	polonium 198
NT3	iodine 124	NT3	mercury 185	NT3	polonium 199
NT3	iodine 126	NT3	mercury 186	NT3	polonium 200
NT3	iodine 128	NT3	mercury 187	NT3	polonium 201
NT3	iridium 178	NT3	mercury 188	NT3	polonium 202
NT3	iridium 179	NT3	mercury 191	NT3	polonium 203
NT3	iridium 180	NT3	mercury 193	NT3	polonium 205
NT3	iridium 181	NT3	molybdenum 86	NT3	polonium 207
NT3	iridium 182	NT3	molybdenum 87	NT3	potassium 35
NT3	iridium 183	NT3	molybdenum 88	NT3	potassium 36
NT3	iridium 184	NT3	molybdenum 89	NT3	potassium 37
NT3	iridium 185	NT3	molybdenum 90	NT3	potassium 38
NT3	iridium 186	NT3	molybdenum 91	NT3	potassium 40
NT3	iridium 188	NT3	neodymium 127	NT3	praseodymium 126
NT3	iridium 190	NT3	neodymium 128	NT3	praseodymium 127
NT3	iron 45	NT3	neodymium 129	NT3	praseodymium 129
NT3	iron 46	NT3	neodymium 130	NT3	praseodymium 130
NT3	iron 49	NT3	neodymium 131	NT3	praseodymium 131
NT3	iron 51	NT3	neodymium 132	NT3	praseodymium 132
NT3	iron 52	NT3	neodymium 133	NT3	praseodymium 133
NT3	iron 53	NT3	neodymium 134	NT3	praseodymium 134
NT3	krypton 69	NT3	neodymium 135	NT3	praseodymium 135
NT3	krypton 71	NT3	neodymium 136	NT3	praseodymium 136
NT3	krypton 72	NT3	neodymium 137	NT3	praseodymium 137
NT3	krypton 73	NT3	neodymium 138	NT3	praseodymium 138
NT3	krypton 74	NT3	neodymium 139	NT3	praseodymium 139
NT3	krypton 75	NT3	neodymium 141	NT3	praseodymium 140
NT3	krypton 77	NT3	neon 17	NT3	promethium 132
NT3	krypton 79	NT3	neon 18	NT3	promethium 133
NT3	lanthanum 121	NT3	neon 19	NT3	promethium 134
NT3	lanthanum 125	NT3	neptunium 234	NT3	promethium 135
NT3	lanthanum 126	NT3	nickel 49	NT3	promethium 136
NT3	lanthanum 127	NT3	nickel 50	NT3	promethium 137
NT3	lanthanum 128	NT3	nickel 52	NT3	promethium 138
NT3	lanthanum 129	NT3	nickel 53	NT3	promethium 139
NT3	lanthanum 130	NT3	nickel 55	NT3	promethium 140
NT3	lanthanum 131	NT3	nickel 56	NT3	promethium 141
NT3	lanthanum 132	NT3	nickel 57	NT3	promethium 142
NT3	lanthanum 133	NT3	niobium 83	NT3	protactinium 230
NT3	lanthanum 134	NT3	niobium 84	NT3	radon 207
NT3	lanthanum 135	NT3	niobium 85	NT3	radon 209
NT3	lanthanum 136	NT3	niobium 87	NT3	rhenium 165
NT3	lead 187	NT3	niobium 88	NT3	rhenium 170
NT3	lead 188	NT3	niobium 89	NT3	rhenium 171
NT3	lead 189	NT3	niobium 90	NT3	rhenium 172
NT3	lead 190	NT3	niobium 92	NT3	rhenium 174
NT3	lead 191	NT3	nitrogen 12	NT3	rhenium 175
NT3	lead 192	NT3	nitrogen 13	NT3	rhenium 176
NT3	lead 193	NT3	osmium 172	NT3	rhenium 177
NT3	lead 194	NT3	osmium 173	NT3	rhenium 178
NT3	lead 195	NT3	osmium 174	NT3	rhenium 179



NT3	rhenium 180	NT3	strontium 83	NT3	thulium 162
NT3	rhenium 182	NT3	sulfur 28	NT3	thulium 163
NT3	rhodium 100	NT3	sulfur 29	NT3	thulium 164
NT3	rhodium 102	NT3	sulfur 30	NT3	thulium 165
NT3	rhodium 91	NT3	sulfur 31	NT3	thulium 166
NT3	rhodium 92	NT3	tantalum 165	NT3	tin 100
NT3	rhodium 93	NT3	tantalum 166	NT3	tin 102
NT3	rhodium 94	NT3	tantalum 167	NT3	tin 103
NT3	rhodium 95	NT3	tantalum 168	NT3	tin 105
NT3	rhodium 96	NT3	tantalum 169	NT3	tin 106
NT3	rhodium 97	NT3	tantalum 170	NT3	tin 107
NT3	rhodium 98	NT3	tantalum 171	NT3	tin 108
NT3	rhodium 99	NT3	tantalum 172	NT3	tin 109
NT3	rubidium 73	NT3	tantalum 173	NT3	tin 111
NT3	rubidium 74	NT3	tantalum 174	NT3	titanium 39
NT3	rubidium 75	NT3	tantalum 175	NT3	titanium 40
NT3	rubidium 76	NT3	tantalum 176	NT3	titanium 41
NT3	rubidium 77	NT3	tantalum 177	NT3	titanium 42
NT3	rubidium 78	NT3	tantalum 178	NT3	titanium 43
NT3	rubidium 79	NT3	technetium 88	NT3	titanium 45
NT3	rubidium 80	NT3	technetium 89	NT3	tungsten 168
NT3	rubidium 81	NT3	technetium 90	NT3	tungsten 169
NT3	rubidium 82	NT3	technetium 91	NT3	tungsten 170
NT3	rubidium 84	NT3	technetium 92	NT3	tungsten 171
NT3	ruthenium 88	NT3	technetium 93	NT3	tungsten 172
NT3	ruthenium 89	NT3	technetium 94	NT3	tungsten 173
NT3	ruthenium 92	NT3	technetium 95	NT3	tungsten 175
NT3	ruthenium 93	NT3	technetium 96	NT3	tungsten 177
NT3	ruthenium 95	NT3	tellurium 107	NT3	tungsten 190
NT3	samarium 132	NT3	tellurium 108	NT3	vanadium 42
NT3	samarium 133	NT3	tellurium 109	NT3	vanadium 43
NT3	samarium 134	NT3	tellurium 110	NT3	vanadium 44
NT3	samarium 135	NT3	tellurium 111	NT3	vanadium 45
NT3	samarium 136	NT3	tellurium 112	NT3	vanadium 46
NT3	samarium 137	NT3	tellurium 113	NT3	vanadium 47
NT3	samarium 138	NT3	tellurium 114	NT3	vanadium 48
NT3	samarium 139	NT3	tellurium 115	NT3	xenon 110
NT3	samarium 140	NT3	tellurium 116	NT3	xenon 111
NT3	samarium 141	NT3	tellurium 117	NT3	xenon 112
NT3	samarium 142	NT3	tellurium 118	NT3	xenon 113
NT3	samarium 143	NT3	tellurium 119	NT3	xenon 114
NT3	scandium 40	NT3	tellurium 121	NT3	xenon 115
NT3	scandium 41	NT3	terbium 139	NT3	xenon 116
NT3	scandium 42	NT3	terbium 141	NT3	xenon 117
NT3	scandium 43	NT3	terbium 143	NT3	xenon 118
NT3	scandium 44	NT3	terbium 144	NT3	xenon 119
NT3	selenium 65	NT3	terbium 145	NT3	xenon 120
NT3	selenium 67	NT3	terbium 146	NT3	xenon 121
NT3	selenium 68	NT3	terbium 147	NT3	xenon 122
NT3	selenium 69	NT3	terbium 148	NT3	xenon 123
NT3	selenium 70	NT3	terbium 149	NT3	xenon 125
NT3	selenium 71	NT3	terbium 150	NT3	ytterbium 153
NT3	selenium 73	NT3	terbium 151	NT3	ytterbium 158
NT3	silicon 24	NT3	terbium 152	NT3	ytterbium 160
NT3	silicon 25	NT3	terbium 153	NT3	ytterbium 161
NT3	silicon 26	NT3	terbium 154	NT3	ytterbium 162
NT3	silicon 27	NT3	terbium 156	NT3	ytterbium 163
NT3	silver 100	NT3	thallium 182	NT3	ytterbium 165
NT3	silver 101	NT3	thallium 184	NT3	ytterbium 167
NT3	silver 102	NT3	thallium 186	NT3	yttrium 79
NT3	silver 103	NT3	thallium 188	NT3	yttrium 80
NT3	silver 104	NT3	thallium 189	NT3	yttrium 81
NT3	silver 105	NT3	thallium 190	NT3	yttrium 82
NT3	silver 106	NT3	thallium 191	NT3	yttrium 83
NT3	silver 108	NT3	thallium 192	NT3	yttrium 84
NT3	silver 94	NT3	thallium 193	NT3	yttrium 85
NT3	silver 96	NT3	thallium 194	NT3	yttrium 86
NT3	silver 98	NT3	thallium 195	NT3	yttrium 87
NT3	silver 99	NT3	thallium 196	NT3	yttrium 88
NT3	sodium 20	NT3	thallium 197	NT3	zinc 57
NT3	sodium 21	NT3	thallium 198	NT3	zinc 59
NT3	sodium 22	NT3	thallium 200	NT3	zinc 60
NT3	strontium 75	NT3	thulium 148	NT3	zinc 61
NT3	strontium 76	NT3	thulium 156	NT3	zinc 62
NT3	strontium 77	NT3	thulium 157	NT3	zinc 63
NT3	strontium 78	NT3	thulium 158	NT3	zinc 65
NT3	strontium 79	NT3	thulium 159	NT3	zirconium 81
NT3	strontium 80	NT3	thulium 160	NT3	zirconium 82
NT3	strontium 81	NT3	thulium 161	NT3	zirconium 83

NT3	zirconium 84	NT3	berkelium 240	NT3	cesium 124
NT3	zirconium 85	NT3	berkelium 242	NT3	cesium 125
NT3	zirconium 87	NT3	berkelium 243	NT3	cesium 126
NT3	zirconium 89	NT3	berkelium 244	NT3	cesium 127
NT2	electron capture radioisotopes	NT3	berkelium 245	NT3	cesium 128
NT3	actinium 214	NT3	berkelium 246	NT3	cesium 129
NT3	actinium 215	NT3	berkelium 248	NT3	cesium 130
NT3	actinium 222	NT3	beryllium 7	NT3	cesium 131
NT3	actinium 223	NT3	bismuth 190	NT3	cesium 132
NT3	actinium 224	NT3	bismuth 191	NT3	cesium 134
NT3	actinium 226	NT3	bismuth 192	NT3	chlorine 36
NT3	americium 231	NT3	bismuth 193	NT3	chromium 48
NT3	americium 232	NT3	bismuth 194	NT3	chromium 49
NT3	americium 233	NT3	bismuth 195	NT3	chromium 51
NT3	americium 234	NT3	bismuth 196	NT3	cobalt 49
NT3	americium 235	NT3	bismuth 197	NT3	cobalt 51
NT3	americium 236	NT3	bismuth 198	NT3	cobalt 55
NT3	americium 237	NT3	bismuth 199	NT3	cobalt 56
NT3	americium 238	NT3	bismuth 200	NT3	cobalt 57
NT3	americium 239	NT3	bismuth 201	NT3	cobalt 58
NT3	americium 240	NT3	bismuth 202	NT3	copper 55
NT3	americium 242	NT3	bismuth 203	NT3	copper 58
NT3	americium 244	NT3	bismuth 204	NT3	copper 60
NT3	antimony 103	NT3	bismuth 205	NT3	copper 61
NT3	antimony 107	NT3	bismuth 206	NT3	copper 62
NT3	antimony 109	NT3	bismuth 207	NT3	copper 64
NT3	antimony 110	NT3	bismuth 208	NT3	curium 232
NT3	antimony 111	NT3	bromine 67	NT3	curium 233
NT3	antimony 112	NT3	bromine 68	NT3	curium 234
NT3	antimony 113	NT3	bromine 71	NT3	curium 235
NT3	antimony 114	NT3	bromine 73	NT3	curium 238
NT3	antimony 115	NT3	bromine 74	NT3	curium 239
NT3	antimony 116	NT3	bromine 75	NT3	curium 241
NT3	antimony 117	NT3	bromine 76	NT3	dubnium 258
NT3	antimony 118	NT3	bromine 77	NT3	dysprosium 138
NT3	antimony 119	NT3	bromine 78	NT3	dysprosium 139
NT3	antimony 120	NT3	bromine 80	NT3	dysprosium 140
NT3	antimony 122	NT3	cadmium 100	NT3	dysprosium 141
NT3	argon 37	NT3	cadmium 101	NT3	dysprosium 143
NT3	arsenic 67	NT3	cadmium 102	NT3	dysprosium 144
NT3	arsenic 70	NT3	cadmium 103	NT3	dysprosium 145
NT3	arsenic 71	NT3	cadmium 104	NT3	dysprosium 147
NT3	arsenic 72	NT3	cadmium 105	NT3	dysprosium 148
NT3	arsenic 73	NT3	cadmium 107	NT3	dysprosium 149
NT3	arsenic 74	NT3	cadmium 109	NT3	dysprosium 150
NT3	astatine 195	NT3	cadmium 96	NT3	dysprosium 151
NT3	astatine 197	NT3	cadmium 97	NT3	dysprosium 152
NT3	astatine 199	NT3	calcium 41	NT3	dysprosium 153
NT3	astatine 200	NT3	californium 241	NT3	dysprosium 155
NT3	astatine 201	NT3	californium 243	NT3	dysprosium 157
NT3	astatine 202	NT3	californium 245	NT3	dysprosium 159
NT3	astatine 203	NT3	californium 247	NT3	einsteinium 240
NT3	astatine 204	NT3	cerium 119	NT3	einsteinium 241
NT3	astatine 205	NT3	cerium 120	NT3	einsteinium 242
NT3	astatine 206	NT3	cerium 121	NT3	einsteinium 244
NT3	astatine 207	NT3	cerium 122	NT3	einsteinium 245
NT3	astatine 208	NT3	cerium 123	NT3	einsteinium 246
NT3	astatine 209	NT3	cerium 126	NT3	einsteinium 247
NT3	astatine 210	NT3	cerium 127	NT3	einsteinium 248
NT3	astatine 211	NT3	cerium 128	NT3	einsteinium 249
NT3	barium 117	NT3	cerium 129	NT3	einsteinium 250
NT3	barium 119	NT3	cerium 130	NT3	einsteinium 251
NT3	barium 120	NT3	cerium 131	NT3	einsteinium 252
NT3	barium 121	NT3	cerium 132	NT3	einsteinium 254
NT3	barium 122	NT3	cerium 133	NT3	erbium 143
NT3	barium 123	NT3	cerium 134	NT3	erbium 144
NT3	barium 124	NT3	cerium 135	NT3	erbium 146
NT3	barium 125	NT3	cerium 137	NT3	erbium 147
NT3	barium 126	NT3	cerium 139	NT3	erbium 149
NT3	barium 127	NT3	cesium 114	NT3	erbium 150
NT3	barium 128	NT3	cesium 115	NT3	erbium 151
NT3	barium 129	NT3	cesium 116	NT3	erbium 152
NT3	barium 131	NT3	cesium 117	NT3	erbium 153
NT3	barium 133	NT3	cesium 118	NT3	erbium 154
NT3	berkelium 235	NT3	cesium 119	NT3	erbium 155
NT3	berkelium 236	NT3	cesium 120	NT3	erbium 156
NT3	berkelium 237	NT3	cesium 121	NT3	erbium 157
NT3	berkelium 238	NT3	cesium 122	NT3	erbium 158
NT3	berkelium 239	NT3	cesium 123	NT3	erbium 159

NT3	erbium 160	NT3	hafnium 158	NT3	iridium 190
NT3	erbium 161	NT3	hafnium 159	NT3	iridium 192
NT3	erbium 163	NT3	hafnium 160	NT3	iron 45
NT3	erbium 165	NT3	hafnium 162	NT3	iron 52
NT3	europium 132	NT3	hafnium 163	NT3	iron 53
NT3	europium 133	NT3	hafnium 166	NT3	iron 55
NT3	europium 139	NT3	hafnium 167	NT3	krypton 69
NT3	europium 140	NT3	hafnium 168	NT3	krypton 71
NT3	europium 141	NT3	hafnium 169	NT3	krypton 72
NT3	europium 142	NT3	hafnium 170	NT3	krypton 73
NT3	europium 143	NT3	hafnium 171	NT3	krypton 74
NT3	europium 144	NT3	hafnium 172	NT3	krypton 75
NT3	europium 145	NT3	hafnium 173	NT3	krypton 76
NT3	europium 146	NT3	hafnium 175	NT3	krypton 77
NT3	europium 147	NT3	holmium 142	NT3	krypton 79
NT3	europium 148	NT3	holmium 143	NT3	krypton 81
NT3	europium 149	NT3	holmium 145	NT3	lanthanum 117
NT3	europium 150	NT3	holmium 147	NT3	lanthanum 118
NT3	europium 152	NT3	holmium 149	NT3	lanthanum 119
NT3	europium 154	NT3	holmium 150	NT3	lanthanum 120
NT3	fermium 247	NT3	holmium 151	NT3	lanthanum 121
NT3	fermium 249	NT3	holmium 152	NT3	lanthanum 122
NT3	fermium 251	NT3	holmium 153	NT3	lanthanum 123
NT3	fermium 253	NT3	holmium 154	NT3	lanthanum 124
NT3	francium 204	NT3	holmium 155	NT3	lanthanum 125
NT3	francium 206	NT3	holmium 156	NT3	lanthanum 126
NT3	francium 207	NT3	holmium 157	NT3	lanthanum 127
NT3	francium 208	NT3	holmium 158	NT3	lanthanum 128
NT3	francium 209	NT3	holmium 159	NT3	lanthanum 129
NT3	francium 210	NT3	holmium 160	NT3	lanthanum 130
NT3	francium 211	NT3	holmium 161	NT3	lanthanum 131
NT3	francium 212	NT3	holmium 162	NT3	lanthanum 132
NT3	francium 213	NT3	holmium 163	NT3	lanthanum 133
NT3	gadolinium 135	NT3	holmium 164	NT3	lanthanum 134
NT3	gadolinium 141	NT3	indium 102	NT3	lanthanum 135
NT3	gadolinium 143	NT3	indium 103	NT3	lanthanum 136
NT3	gadolinium 144	NT3	indium 104	NT3	lanthanum 137
NT3	gadolinium 145	NT3	indium 105	NT3	lanthanum 138
NT3	gadolinium 146	NT3	indium 106	NT3	lawrencium 251
NT3	gadolinium 147	NT3	indium 107	NT3	lawrencium 254
NT3	gadolinium 149	NT3	indium 108	NT3	lawrencium 255
NT3	gadolinium 151	NT3	indium 109	NT3	lawrencium 256
NT3	gadolinium 153	NT3	indium 110	NT3	lead 186
NT3	gallium 62	NT3	indium 111	NT3	lead 187
NT3	gallium 63	NT3	indium 112	NT3	lead 188
NT3	gallium 64	NT3	indium 114	NT3	lead 189
NT3	gallium 65	NT3	indium 97	NT3	lead 190
NT3	gallium 66	NT3	indium 98	NT3	lead 191
NT3	gallium 67	NT3	indium 99	NT3	lead 192
NT3	gallium 68	NT3	iodine 110	NT3	lead 193
NT3	gallium 70	NT3	iodine 111	NT3	lead 194
NT3	germanium 63	NT3	iodine 112	NT3	lead 195
NT3	germanium 64	NT3	iodine 113	NT3	lead 196
NT3	germanium 65	NT3	iodine 114	NT3	lead 197
NT3	germanium 66	NT3	iodine 115	NT3	lead 198
NT3	germanium 67	NT3	iodine 116	NT3	lead 199
NT3	germanium 68	NT3	iodine 117	NT3	lead 200
NT3	germanium 69	NT3	iodine 118	NT3	lead 201
NT3	germanium 71	NT3	iodine 119	NT3	lead 202
NT3	gold 180	NT3	iodine 120	NT3	lead 203
NT3	gold 181	NT3	iodine 121	NT3	lead 205
NT3	gold 182	NT3	iodine 122	NT3	lutetium 150
NT3	gold 183	NT3	iodine 123	NT3	lutetium 153
NT3	gold 184	NT3	iodine 124	NT3	lutetium 154
NT3	gold 185	NT3	iodine 125	NT3	lutetium 155
NT3	gold 186	NT3	iodine 126	NT3	lutetium 156
NT3	gold 187	NT3	iodine 128	NT3	lutetium 157
NT3	gold 188	NT3	iridium 178	NT3	lutetium 158
NT3	gold 189	NT3	iridium 179	NT3	lutetium 159
NT3	gold 190	NT3	iridium 180	NT3	lutetium 160
NT3	gold 191	NT3	iridium 181	NT3	lutetium 161
NT3	gold 192	NT3	iridium 182	NT3	lutetium 162
NT3	gold 193	NT3	iridium 183	NT3	lutetium 163
NT3	gold 194	NT3	iridium 184	NT3	lutetium 164
NT3	gold 195	NT3	iridium 185	NT3	lutetium 165
NT3	gold 196	NT3	iridium 186	NT3	lutetium 166
NT3	hafnium 154	NT3	iridium 187	NT3	lutetium 167
NT3	hafnium 155	NT3	iridium 188	NT3	lutetium 168
NT3	hafnium 157	NT3	iridium 189	NT3	lutetium 169

NT3	lutetium 170	NT3	niobium 87	NT3	praseodymium 125
NT3	lutetium 171	NT3	niobium 88	NT3	praseodymium 127
NT3	lutetium 172	NT3	niobium 90	NT3	praseodymium 128
NT3	lutetium 173	NT3	niobium 91	NT3	praseodymium 129
NT3	lutetium 174	NT3	niobium 92	NT3	praseodymium 130
NT3	manganese 51	NT3	nitrogen 13	NT3	praseodymium 132
NT3	manganese 52	NT3	niobium 253	NT3	praseodymium 133
NT3	manganese 53	NT3	niobium 254	NT3	praseodymium 134
NT3	manganese 54	NT3	niobium 255	NT3	praseodymium 135
NT3	mendelevium 245	NT3	niobium 259	NT3	praseodymium 136
NT3	mendelevium 246	NT3	osmium 166	NT3	praseodymium 137
NT3	mendelevium 248	NT3	osmium 167	NT3	praseodymium 138
NT3	mendelevium 249	NT3	osmium 168	NT3	praseodymium 139
NT3	mendelevium 250	NT3	osmium 169	NT3	praseodymium 140
NT3	mendelevium 251	NT3	osmium 170	NT3	praseodymium 142
NT3	mendelevium 252	NT3	osmium 171	NT3	promethium 126
NT3	mendelevium 253	NT3	osmium 172	NT3	promethium 127
NT3	mendelevium 254	NT3	osmium 173	NT3	promethium 128
NT3	mendelevium 255	NT3	osmium 174	NT3	promethium 129
NT3	mendelevium 256	NT3	osmium 175	NT3	promethium 130
NT3	mendelevium 257	NT3	osmium 176	NT3	promethium 131
NT3	mendelevium 258	NT3	osmium 177	NT3	promethium 132
NT3	mercury 177	NT3	osmium 178	NT3	promethium 133
NT3	mercury 178	NT3	osmium 179	NT3	promethium 134
NT3	mercury 179	NT3	osmium 180	NT3	promethium 135
NT3	mercury 180	NT3	osmium 181	NT3	promethium 136
NT3	mercury 181	NT3	osmium 182	NT3	promethium 137
NT3	mercury 182	NT3	osmium 183	NT3	promethium 138
NT3	mercury 183	NT3	osmium 185	NT3	promethium 139
NT3	mercury 184	NT3	palladium 100	NT3	promethium 140
NT3	mercury 185	NT3	palladium 101	NT3	promethium 141
NT3	mercury 186	NT3	palladium 103	NT3	promethium 142
NT3	mercury 187	NT3	palladium 91	NT3	promethium 143
NT3	mercury 188	NT3	palladium 92	NT3	promethium 144
NT3	mercury 189	NT3	palladium 94	NT3	promethium 145
NT3	mercury 190	NT3	palladium 95	NT3	promethium 146
NT3	mercury 191	NT3	palladium 96	NT3	protactinium 226
NT3	mercury 192	NT3	palladium 97	NT3	protactinium 227
NT3	mercury 193	NT3	palladium 98	NT3	protactinium 228
NT3	mercury 194	NT3	palladium 99	NT3	protactinium 229
NT3	mercury 195	NT3	platinum 173	NT3	protactinium 230
NT3	mercury 197	NT3	platinum 174	NT3	radium 213
NT3	molybdenum 83	NT3	platinum 175	NT3	radium 214
NT3	molybdenum 87	NT3	platinum 176	NT3	radon 198
NT3	molybdenum 88	NT3	platinum 177	NT3	radon 200
NT3	molybdenum 89	NT3	platinum 178	NT3	radon 201
NT3	molybdenum 90	NT3	platinum 179	NT3	radon 202
NT3	molybdenum 91	NT3	platinum 180	NT3	radon 203
NT3	molybdenum 93	NT3	platinum 181	NT3	radon 204
NT3	neodymium 125	NT3	platinum 182	NT3	radon 205
NT3	neodymium 126	NT3	platinum 183	NT3	radon 206
NT3	neodymium 129	NT3	platinum 184	NT3	radon 207
NT3	neodymium 130	NT3	platinum 185	NT3	radon 208
NT3	neodymium 132	NT3	platinum 186	NT3	radon 209
NT3	neodymium 133	NT3	platinum 187	NT3	radon 210
NT3	neodymium 134	NT3	platinum 188	NT3	radon 211
NT3	neodymium 135	NT3	platinum 189	NT3	rhenium 163
NT3	neodymium 136	NT3	platinum 191	NT3	rhenium 164
NT3	neodymium 137	NT3	platinum 193	NT3	rhenium 165
NT3	neodymium 138	NT3	plutonium 232	NT3	rhenium 168
NT3	neodymium 139	NT3	plutonium 233	NT3	rhenium 170
NT3	neodymium 140	NT3	plutonium 234	NT3	rhenium 171
NT3	neodymium 141	NT3	plutonium 235	NT3	rhenium 172
NT3	neptunium 230	NT3	plutonium 237	NT3	rhenium 173
NT3	neptunium 231	NT3	polonium 196	NT3	rhenium 174
NT3	neptunium 232	NT3	polonium 197	NT3	rhenium 175
NT3	neptunium 233	NT3	polonium 198	NT3	rhenium 176
NT3	neptunium 234	NT3	polonium 199	NT3	rhenium 177
NT3	neptunium 235	NT3	polonium 200	NT3	rhenium 178
NT3	neptunium 236	NT3	polonium 201	NT3	rhenium 179
NT3	nickel 48	NT3	polonium 202	NT3	rhenium 180
NT3	nickel 51	NT3	polonium 203	NT3	rhenium 181
NT3	nickel 56	NT3	polonium 204	NT3	rhenium 182
NT3	nickel 57	NT3	polonium 205	NT3	rhenium 183
NT3	nickel 59	NT3	polonium 206	NT3	rhenium 184
NT3	niobium 82	NT3	polonium 207	NT3	rhenium 186
NT3	niobium 84	NT3	polonium 208	NT3	rhodium 100
NT3	niobium 85	NT3	polonium 209	NT3	rhodium 101
NT3	niobium 86	NT3	potassium 40	NT3	rhodium 102

NT3	rhodium 104	NT3	tantalum 160	NT3	thallium 197
NT3	rhodium 89	NT3	tantalum 165	NT3	thallium 198
NT3	rhodium 90	NT3	tantalum 166	NT3	thallium 199
NT3	rhodium 91	NT3	tantalum 167	NT3	thallium 200
NT3	rhodium 92	NT3	tantalum 168	NT3	thallium 201
NT3	rhodium 93	NT3	tantalum 169	NT3	thallium 202
NT3	rhodium 95	NT3	tantalum 170	NT3	thallium 204
NT3	rhodium 96	NT3	tantalum 171	NT3	thorium 225
NT3	rhodium 97	NT3	tantalum 172	NT3	thulium 148
NT3	rhodium 98	NT3	tantalum 173	NT3	thulium 152
NT3	rhodium 99	NT3	tantalum 174	NT3	thulium 153
NT3	rubidium 76	NT3	tantalum 175	NT3	thulium 154
NT3	rubidium 77	NT3	tantalum 176	NT3	thulium 155
NT3	rubidium 78	NT3	tantalum 177	NT3	thulium 156
NT3	rubidium 79	NT3	tantalum 178	NT3	thulium 157
NT3	rubidium 81	NT3	tantalum 179	NT3	thulium 158
NT3	rubidium 82	NT3	tantalum 180	NT3	thulium 159
NT3	rubidium 83	NT3	technetium 85	NT3	thulium 160
NT3	rubidium 84	NT3	technetium 86	NT3	thulium 161
NT3	rubidium 86	NT3	technetium 87	NT3	thulium 162
NT3	ruthenium 87	NT3	technetium 90	NT3	thulium 163
NT3	ruthenium 90	NT3	technetium 91	NT3	thulium 164
NT3	ruthenium 91	NT3	technetium 92	NT3	thulium 165
NT3	ruthenium 92	NT3	technetium 93	NT3	thulium 166
NT3	ruthenium 93	NT3	technetium 94	NT3	thulium 167
NT3	ruthenium 94	NT3	technetium 95	NT3	thulium 168
NT3	ruthenium 95	NT3	technetium 96	NT3	thulium 170
NT3	ruthenium 97	NT3	technetium 97	NT3	tin 100
NT3	samarium 129	NT3	tellurium 107	NT3	tin 102
NT3	samarium 130	NT3	tellurium 108	NT3	tin 106
NT3	samarium 132	NT3	tellurium 109	NT3	tin 107
NT3	samarium 133	NT3	tellurium 110	NT3	tin 108
NT3	samarium 134	NT3	tellurium 111	NT3	tin 109
NT3	samarium 135	NT3	tellurium 112	NT3	tin 110
NT3	samarium 136	NT3	tellurium 113	NT3	tin 111
NT3	samarium 137	NT3	tellurium 114	NT3	tin 113
NT3	samarium 138	NT3	tellurium 115	NT3	tin 99
NT3	samarium 139	NT3	tellurium 116	NT3	titanium 44
NT3	samarium 140	NT3	tellurium 117	NT3	titanium 45
NT3	samarium 141	NT3	tellurium 118	NT3	tungsten 161
NT3	samarium 142	NT3	tellurium 119	NT3	tungsten 162
NT3	samarium 143	NT3	tellurium 121	NT3	tungsten 163
NT3	samarium 145	NT3	tellurium 123	NT3	tungsten 164
NT3	scandium 44	NT3	terbium 136	NT3	tungsten 165
NT3	selenium 69	NT3	terbium 137	NT3	tungsten 166
NT3	selenium 70	NT3	terbium 138	NT3	tungsten 168
NT3	selenium 71	NT3	terbium 139	NT3	tungsten 169
NT3	selenium 72	NT3	terbium 141	NT3	tungsten 170
NT3	selenium 73	NT3	terbium 142	NT3	tungsten 171
NT3	selenium 75	NT3	terbium 143	NT3	tungsten 172
NT3	silver 100	NT3	terbium 144	NT3	tungsten 173
NT3	silver 101	NT3	terbium 146	NT3	tungsten 174
NT3	silver 102	NT3	terbium 147	NT3	tungsten 175
NT3	silver 103	NT3	terbium 148	NT3	tungsten 176
NT3	silver 104	NT3	terbium 149	NT3	tungsten 177
NT3	silver 105	NT3	terbium 150	NT3	tungsten 178
NT3	silver 106	NT3	terbium 151	NT3	tungsten 179
NT3	silver 108	NT3	terbium 152	NT3	tungsten 181
NT3	silver 110	NT3	terbium 153	NT3	uranium 228
NT3	silver 93	NT3	terbium 154	NT3	uranium 229
NT3	silver 95	NT3	terbium 155	NT3	uranium 231
NT3	silver 96	NT3	terbium 156	NT3	vanadium 42
NT3	silver 97	NT3	terbium 157	NT3	vanadium 45
NT3	silver 98	NT3	terbium 158	NT3	vanadium 47
NT3	silver 99	NT3	thallium 178	NT3	vanadium 48
NT3	sodium 20	NT3	thallium 180	NT3	vanadium 49
NT3	strontium 73	NT3	thallium 181	NT3	vanadium 50
NT3	strontium 74	NT3	thallium 184	NT3	xenon 110
NT3	strontium 76	NT3	thallium 186	NT3	xenon 111
NT3	strontium 78	NT3	thallium 187	NT3	xenon 112
NT3	strontium 79	NT3	thallium 188	NT3	xenon 113
NT3	strontium 80	NT3	thallium 189	NT3	xenon 114
NT3	strontium 81	NT3	thallium 190	NT3	xenon 115
NT3	strontium 82	NT3	thallium 191	NT3	xenon 116
NT3	strontium 83	NT3	thallium 192	NT3	xenon 117
NT3	strontium 85	NT3	thallium 193	NT3	xenon 118
NT3	strontium 87	NT3	thallium 194	NT3	xenon 119
NT3	tantalum 158	NT3	thallium 195	NT3	xenon 120
NT3	tantalum 159	NT3	thallium 196	NT3	xenon 121

NT3	xenon 122	NT2	calcium 45	NT2	lutetium 171
NT3	xenon 123	NT2	calcium 47	NT2	lutetium 172
NT3	xenon 125	NT2	californium 246	NT2	lutetium 174
NT3	xenon 127	NT2	californium 248	NT2	lutetium 177
NT3	ytterbium 148	NT2	californium 253	NT2	manganese 52
NT3	ytterbium 149	NT2	californium 254	NT2	manganese 54
NT3	ytterbium 153	NT2	cerium 134	NT2	mendelevium 258
NT3	ytterbium 155	NT2	cerium 137	NT2	mercury 195
NT3	ytterbium 156	NT2	cerium 139	NT2	mercury 197
NT3	ytterbium 157	NT2	cerium 141	NT2	mercury 203
NT3	ytterbium 158	NT2	cerium 143	NT2	molybdenum 99
NT3	ytterbium 159	NT2	cerium 144	NT2	neodymium 140
NT3	ytterbium 160	NT2	cesium 129	NT2	neodymium 147
NT3	ytterbium 161	NT2	cesium 131	NT2	neptunium 234
NT3	ytterbium 162	NT2	cesium 132	NT2	neptunium 238
NT3	ytterbium 163	NT2	cesium 136	NT2	neptunium 239
NT3	ytterbium 164	NT2	chromium 51	NT2	nickel 56
NT3	ytterbium 165	NT2	cobalt 56	NT2	nickel 57
NT3	ytterbium 166	NT2	cobalt 57	NT2	nickel 66
NT3	ytterbium 167	NT2	cobalt 58	NT2	niobium 91
NT3	ytterbium 169	NT2	copper 67	NT2	niobium 92
NT3	yttrium 78	NT2	curium 240	NT2	niobium 95
NT3	yttrium 79	NT2	curium 241	NT2	osmium 185
NT3	yttrium 80	NT2	curium 242	NT2	osmium 191
NT3	yttrium 81	NT2	dubnium 268	NT2	osmium 193
NT3	yttrium 83	NT2	dysprosium 159	NT2	palladium 100
NT3	yttrium 84	NT2	dysprosium 166	NT2	palladium 103
NT3	yttrium 85	NT2	einsteinium 251	NT2	phosphorus 32
NT3	yttrium 86	NT2	einsteinium 253	NT2	phosphorus 33
NT3	yttrium 87	NT2	einsteinium 254	NT2	platinum 188
NT3	yttrium 88	NT2	einsteinium 255	NT2	platinum 191
NT3	zinc 55	NT2	erbium 160	NT2	platinum 193
NT3	zinc 56	NT2	erbium 169	NT2	platinum 195
NT3	zinc 60	NT2	erbium 172	NT2	plutonium 237
NT3	zinc 61	NT2	europium 145	NT2	plutonium 246
NT3	zinc 62	NT2	europium 146	NT2	plutonium 247
NT3	zinc 63	NT2	europium 147	NT2	polonium 206
NT3	zinc 65	NT2	europium 148	NT2	polonium 210
NT3	zirconium 78	NT2	europium 149	NT2	praseodymium 143
NT3	zirconium 79	NT2	europium 156	NT2	promethium 143
NT3	zirconium 84	NT2	fermium 252	NT2	promethium 148
NT3	zirconium 85	NT2	fermium 253	NT2	promethium 149
NT3	zirconium 86	NT2	fermium 257	NT2	promethium 151
NT3	zirconium 87	NT2	gadolinium 146	NT2	protactinium 229
NT3	zirconium 88	NT2	gadolinium 147	NT2	protactinium 230
NT3	zirconium 89	NT2	gadolinium 149	NT2	protactinium 232
NT1	bone seekers	NT2	gadolinium 151	NT2	protactinium 233
NT1	days living radioisotopes	NT2	gadolinium 153	NT2	radium 223
NT2	actinium 225	NT2	gallium 67	NT2	radium 224
NT2	actinium 226	NT2	germanium 68	NT2	radium 225
NT2	americium 240	NT2	germanium 69	NT2	radon 222
NT2	antimony 119	NT2	germanium 71	NT2	rhenium 182
NT2	antimony 120	NT2	gold 194	NT2	rhenium 183
NT2	antimony 122	NT2	gold 195	NT2	rhenium 184
NT2	antimony 124	NT2	gold 196	NT2	rhenium 186
NT2	antimony 126	NT2	gold 198	NT2	rhenium 189
NT2	antimony 127	NT2	gold 199	NT2	rhodium 101
NT2	argon 37	NT2	hafnium 175	NT2	rhodium 102
NT2	arsenic 71	NT2	hafnium 179	NT2	rhodium 105
NT2	arsenic 72	NT2	hafnium 181	NT2	rhodium 99
NT2	arsenic 73	NT2	holmium 166	NT2	rubidium 83
NT2	arsenic 74	NT2	indium 111	NT2	rubidium 84
NT2	arsenic 76	NT2	indium 114	NT2	rubidium 86
NT2	arsenic 77	NT2	iodine 124	NT2	ruthenium 103
NT2	barium 128	NT2	iodine 125	NT2	ruthenium 97
NT2	barium 131	NT2	iodine 126	NT2	samarium 145
NT2	barium 133	NT2	iodine 131	NT2	samarium 153
NT2	barium 135	NT2	iridium 188	NT2	scandium 44
NT2	barium 140	NT2	iridium 189	NT2	scandium 46
NT2	berkelium 245	NT2	iridium 190	NT2	scandium 47
NT2	berkelium 246	NT2	iridium 192	NT2	scandium 48
NT2	berkelium 249	NT2	iridium 193	NT2	selenium 72
NT2	beryllium 7	NT2	iridium 194	NT2	selenium 75
NT2	bismuth 205	NT2	iron 59	NT2	silver 105
NT2	bismuth 206	NT2	krypton 79	NT2	silver 106
NT2	bismuth 210	NT2	lanthanum 140	NT2	silver 110
NT2	bromine 77	NT2	lead 203	NT2	silver 111
NT2	bromine 82	NT2	lutetium 169	NT2	strontium 82
NT2	cadmium 115	NT2	lutetium 170	NT2	strontium 83

NT2	strontium 85	NT2	neon 24 decay radioisotopes	NT2	erbium 163
NT2	strontium 89	NT3	protactinium 231	NT2	erbium 165
NT2	sulfur 35	NT3	thorium 230	NT2	erbium 171
NT2	tantalum 177	NT3	uranium 232	NT2	europium 150
NT2	tantalum 182	NT3	uranium 233	NT2	europium 152
NT2	tantalum 183	NT3	uranium 234	NT2	europium 157
NT2	technetium 95	NT2	silicon 32 decay radioisotopes	NT2	fermium 251
NT2	technetium 96	NT3	plutonium 238	NT2	fermium 254
NT2	technetium 97	NT1	hours living radioisotopes	NT2	fermium 255
NT2	tellurium 118	NT2	actinium 224	NT2	fermium 256
NT2	tellurium 119	NT2	actinium 228	NT2	fluorine 18
NT2	tellurium 121	NT2	actinium 229	NT2	gadolinium 159
NT2	tellurium 123	NT2	americium 237	NT2	gallium 66
NT2	tellurium 125	NT2	americium 238	NT2	gallium 68
NT2	tellurium 127	NT2	americium 239	NT2	gallium 72
NT2	tellurium 129	NT2	americium 242	NT2	gallium 73
NT2	tellurium 131	NT2	americium 244	NT2	germanium 66
NT2	tellurium 132	NT2	americium 245	NT2	germanium 75
NT2	terbium 153	NT2	antimony 116	NT2	germanium 77
NT2	terbium 155	NT2	antimony 117	NT2	germanium 78
NT2	terbium 156	NT2	antimony 118	NT2	gold 191
NT2	terbium 160	NT2	antimony 128	NT2	gold 192
NT2	terbium 161	NT2	antimony 129	NT2	gold 193
NT2	thallium 200	NT2	argon 41	NT2	gold 196
NT2	thallium 201	NT2	arsenic 78	NT2	gold 200
NT2	thallium 202	NT2	astatine 207	NT2	hafnium 170
NT2	thorium 227	NT2	astatine 208	NT2	hafnium 171
NT2	thorium 231	NT2	astatine 209	NT2	hafnium 173
NT2	thorium 234	NT2	astatine 210	NT2	hafnium 180
NT2	thulium 165	NT2	astatine 211	NT2	hafnium 182
NT2	thulium 167	NT2	barium 126	NT2	hafnium 183
NT2	thulium 168	NT2	barium 129	NT2	hafnium 184
NT2	thulium 170	NT2	barium 139	NT2	hassium 276
NT2	thulium 172	NT2	berkelium 243	NT2	holmium 160
NT2	tin 113	NT2	berkelium 244	NT2	holmium 161
NT2	tin 117	NT2	berkelium 248	NT2	holmium 162
NT2	tin 119	NT2	berkelium 250	NT2	holmium 167
NT2	tin 121	NT2	bismuth 201	NT2	indium 109
NT2	tin 123	NT2	bismuth 202	NT2	indium 110
NT2	tin 125	NT2	bismuth 203	NT2	indium 113
NT2	tungsten 178	NT2	bismuth 204	NT2	indium 115
NT2	tungsten 181	NT2	bismuth 212	NT2	indium 117
NT2	tungsten 185	NT2	bohrium 273	NT2	iodine 120
NT2	tungsten 187	NT2	bohrium 274	NT2	iodine 121
NT2	tungsten 188	NT2	bromine 75	NT2	iodine 123
NT2	uranium 230	NT2	bromine 76	NT2	iodine 130
NT2	uranium 231	NT2	bromine 80	NT2	iodine 132
NT2	uranium 237	NT2	bromine 83	NT2	iodine 133
NT2	vanadium 48	NT2	cadmium 107	NT2	iodine 135
NT2	vanadium 49	NT2	cadmium 117	NT2	iridium 184
NT2	xenon 127	NT2	californium 247	NT2	iridium 185
NT2	xenon 129	NT2	californium 255	NT2	iridium 186
NT2	xenon 131	NT2	cerium 132	NT2	iridium 187
NT2	xenon 133	NT2	cerium 133	NT2	iridium 190
NT2	ytterbium 166	NT2	cerium 135	NT2	iridium 194
NT2	ytterbium 169	NT2	cerium 137	NT2	iridium 195
NT2	ytterbium 175	NT2	cesium 127	NT2	iridium 196
NT2	yttrium 87	NT2	cesium 134	NT2	iron 52
NT2	yttrium 88	NT2	chromium 48	NT2	krypton 76
NT2	yttrium 90	NT2	cobalt 55	NT2	krypton 77
NT2	yttrium 91	NT2	cobalt 58	NT2	krypton 83
NT2	zinc 65	NT2	cobalt 61	NT2	krypton 85
NT2	zinc 72	NT2	copper 61	NT2	krypton 87
NT2	zirconium 88	NT2	copper 64	NT2	krypton 88
NT2	zirconium 89	NT2	curium 238	NT2	lanthanum 132
NT2	zirconium 95	NT2	curium 239	NT2	lanthanum 133
NT1	delayed neutron precursors	NT2	curium 249	NT2	lanthanum 135
NT1	delayed proton precursors	NT2	dubnium 267	NT2	lanthanum 141
NT1	heavy ion decay radioisotopes	NT2	dubnium 269	NT2	lanthanum 142
NT2	carbon 12 decay radioisotopes	NT2	dysprosium 152	NT2	lead 198
NT3	barium 114	NT2	dysprosium 153	NT2	lead 199
NT2	carbon 14 decay radioisotopes	NT2	dysprosium 155	NT2	lead 200
NT3	radium 222	NT2	dysprosium 157	NT2	lead 201
NT3	radium 223	NT2	dysprosium 165	NT2	lead 202
NT3	radium 224	NT2	einsteinium 249	NT2	lead 204
NT3	radium 226	NT2	einsteinium 250	NT2	lead 209
NT2	magnesium 28 decay radioisotopes	NT2	einsteinium 256	NT2	lead 212
NT3	plutonium 236	NT2	erbium 158	NT2	lutetium 176
NT3	uranium 234	NT2	erbium 161	NT2	lutetium 179

NT2	magnesium 28	NT2	strontium 80	NT2	californium 247
NT2	manganese 56	NT2	strontium 85	NT2	californium 250
NT2	mendelevium 256	NT2	strontium 87	NT2	cerium 133
NT2	mendelevium 257	NT2	strontium 91	NT2	cerium 137
NT2	mendelevium 259	NT2	strontium 92	NT2	cesium 123
NT2	mercury 192	NT2	sulfur 38	NT2	cesium 134
NT2	mercury 193	NT2	tantalum 173	NT2	cesium 138
NT2	mercury 195	NT2	tantalum 174	NT2	cobalt 58
NT2	mercury 197	NT2	tantalum 175	NT2	cobalt 60
NT2	molybdenum 90	NT2	tantalum 176	NT2	dysprosium 159
NT2	molybdenum 93	NT2	tantalum 178	NT2	einsteinium 254
NT2	neodymium 138	NT2	tantalum 180	NT2	erbium 156
NT2	neodymium 139	NT2	tantalum 184	NT2	erbium 169
NT2	neodymium 141	NT2	technetium 93	NT2	germanium 73
NT2	neodymium 149	NT2	technetium 94	NT2	germanium 75
NT2	neptunium 236	NT2	technetium 95	NT2	gold 191
NT2	neptunium 240	NT2	technetium 99	NT2	gold 193
NT2	nickel 65	NT2	tellurium 116	NT2	gold 195
NT2	niobium 89	NT2	tellurium 117	NT2	gold 196
NT2	niobium 90	NT2	tellurium 119	NT2	gold 197
NT2	niobium 96	NT2	tellurium 127	NT2	hafnium 178
NT2	niobium 97	NT2	tellurium 129	NT2	hafnium 179
NT2	osmium 181	NT2	terbium 147	NT2	hafnium 180
NT2	osmium 182	NT2	terbium 148	NT2	holmium 158
NT2	osmium 183	NT2	terbium 149	NT2	holmium 160
NT2	osmium 189	NT2	terbium 150	NT2	holmium 164
NT2	osmium 191	NT2	terbium 151	NT2	indium 112
NT2	palladium 101	NT2	terbium 152	NT2	indium 114
NT2	palladium 109	NT2	terbium 154	NT2	indium 115
NT2	palladium 111	NT2	terbium 156	NT2	indium 116
NT2	palladium 112	NT2	thallium 195	NT2	indium 121
NT2	platinum 185	NT2	thallium 196	NT2	iodine 125
NT2	platinum 186	NT2	thallium 197	NT2	iodine 129
NT2	platinum 187	NT2	thallium 198	NT2	iodine 130
NT2	platinum 189	NT2	thallium 199	NT2	iodine 132
NT2	platinum 197	NT2	thulium 163	NT2	iodine 133
NT2	platinum 200	NT2	thulium 166	NT2	iridium 190
NT2	plutonium 234	NT2	thulium 173	NT2	iridium 191
NT2	plutonium 243	NT2	tin 110	NT2	iridium 192
NT2	plutonium 245	NT2	tin 127	NT2	iridium 193
NT2	polonium 204	NT2	titanium 45	NT2	krypton 79
NT2	polonium 205	NT2	tungsten 176	NT2	krypton 83
NT2	polonium 207	NT2	tungsten 177	NT2	lead 199
NT2	potassium 42	NT2	uranium 240	NT2	lead 202
NT2	potassium 43	NT2	xenon 122	NT2	lutetium 169
NT2	praseodymium 137	NT2	xenon 123	NT2	lutetium 170
NT2	praseodymium 138	NT2	xenon 125	NT2	lutetium 171
NT2	praseodymium 139	NT2	xenon 135	NT2	lutetium 172
NT2	praseodymium 142	NT2	ytterbium 164	NT2	lutetium 176
NT2	praseodymium 145	NT2	ytterbium 177	NT2	mercury 193
NT2	promethium 150	NT2	ytterbium 178	NT2	mercury 195
NT2	protactinium 228	NT2	yttrium 85	NT2	mercury 197
NT2	protactinium 234	NT2	yttrium 86	NT2	mercury 199
NT2	radium 230	NT2	yttrium 87	NT2	molybdenum 93
NT2	radon 210	NT2	yttrium 90	NT2	neodymium 147
NT2	radon 211	NT2	yttrium 92	NT2	neptunium 236
NT2	radon 224	NT2	yttrium 93	NT2	niobium 91
NT2	rhenium 181	NT2	zinc 62	NT2	niobium 93
NT2	rhenium 182	NT2	zinc 69	NT2	niobium 94
NT2	rhenium 188	NT2	zinc 71	NT2	osmium 180
NT2	rhenium 190	NT2	zirconium 86	NT2	osmium 189
NT2	rhodium 100	NT2	zirconium 87	NT2	osmium 190
NT2	rhodium 106	NT2	zirconium 97	NT2	osmium 191
NT2	rhodium 99	NT1	internal conversion radioisotopes	NT2	osmium 194
NT2	rubidium 81	NT2	actinium 227	NT2	palladium 112
NT2	rubidium 82	NT2	antimony 119	NT2	platinum 193
NT2	ruthenium 105	NT2	antimony 122	NT2	platinum 195
NT2	ruthenium 95	NT2	antimony 124	NT2	platinum 197
NT2	samarium 142	NT2	antimony 126	NT2	platinum 199
NT2	samarium 156	NT2	astatine 212	NT2	plutonium 235
NT2	scandium 43	NT2	barium 131	NT2	plutonium 237
NT2	scandium 44	NT2	barium 133	NT2	polonium 199
NT2	selenium 73	NT2	barium 135	NT2	polonium 201
NT2	silicon 31	NT2	berkelium 243	NT2	polonium 202
NT2	silver 103	NT2	bromine 77	NT2	polonium 203
NT2	silver 104	NT2	bromine 80	NT2	polonium 205
NT2	silver 112	NT2	bromine 82	NT2	polonium 206
NT2	silver 113	NT2	cadmium 111	NT2	polonium 207
NT2	sodium 24	NT2	cadmium 113	NT2	praseodymium 142



NT2	promethium 145	NT2	bismuth 184	NT2	holmium 160
NT2	radium 213	NT2	bismuth 187	NT2	holmium 161
NT2	radium 225	NT2	bismuth 198	NT2	holmium 162
NT2	radium 228	NT2	bismuth 201	NT2	holmium 163
NT2	radium 230	NT2	bismuth 208	NT2	holmium 164
NT2	radon 210	NT2	bismuth 211	NT2	holmium 168
NT2	radon 211	NT2	bohrium 266	NT2	indium 104
NT2	rhений 183	NT2	bohrium 267	NT2	indium 107
NT2	rhений 184	NT2	bohrium 272	NT2	indium 109
NT2	rhений 188	NT2	bromine 76	NT2	indium 111
NT2	rhений 189	NT2	bromine 77	NT2	indium 112
NT2	rhodium 100	NT2	bromine 79	NT2	indium 113
NT2	rhodium 101	NT2	bromine 80	NT2	indium 114
NT2	rhodium 103	NT2	bromine 82	NT2	indium 115
NT2	rhodium 105	NT2	bromine 83	NT2	indium 116
NT2	rhodium 96	NT2	cadmium 100	NT2	indium 117
NT2	rubidium 81	NT2	cadmium 111	NT2	indium 118
NT2	samarium 145	NT2	cadmium 113	NT2	indium 119
NT2	samarium 151	NT2	cerium 135	NT2	indium 121
NT2	scandium 46	NT2	cerium 137	NT2	iodine 116
NT2	selenium 79	NT2	cerium 138	NT2	iodine 121
NT2	selenium 81	NT2	cerium 139	NT2	iodine 122
NT2	silver 103	NT2	cesium 121	NT2	iodine 130
NT2	silver 105	NT2	cesium 123	NT2	iodine 132
NT2	silver 107	NT2	cesium 134	NT2	iodine 133
NT2	silver 109	NT2	cesium 135	NT2	iodine 134
NT2	silver 111	NT2	cesium 136	NT2	iridium 190
NT2	silver 99	NT2	cesium 138	NT2	iridium 191
NT2	tantalum 182	NT2	chlorine 34	NT2	iridium 192
NT2	technetium 96	NT2	chlorine 38	NT2	iridium 193
NT2	technetium 97	NT2	cobalt 58	NT2	iridium 194
NT2	technetium 99	NT2	cobalt 60	NT2	iron 53
NT2	tellurium 121	NT2	copper 68	NT2	krypton 79
NT2	tellurium 123	NT2	darmstadtium 271	NT2	krypton 81
NT2	tellurium 125	NT2	dubnium 267	NT2	krypton 83
NT2	terbium 151	NT2	dysprosium 140	NT2	krypton 84
NT2	terbium 157	NT2	dysprosium 147	NT2	krypton 85
NT2	terbium 158	NT2	dysprosium 149	NT2	krypton 86
NT2	thallium 198	NT2	dysprosium 165	NT2	lanthanum 132
NT2	thorium 234	NT2	erbium 151	NT2	lead 194
NT2	thulium 159	NT2	erbium 167	NT2	lead 197
NT2	thulium 161	NT2	europium 141	NT2	lead 199
NT2	tin 113	NT2	europium 152	NT2	lead 200
NT2	tin 119	NT2	europium 154	NT2	lead 201
NT2	tin 121	NT2	fermium 250	NT2	lead 202
NT2	tungsten 176	NT2	fermium 256	NT2	lead 203
NT2	tungsten 181	NT2	fluorine 18	NT2	lead 204
NT2	tungsten 185	NT2	francium 206	NT2	lead 205
NT2	uranium 230	NT2	francium 211	NT2	lead 207
NT2	uranium 235	NT2	francium 212	NT2	lutetium 153
NT2	uranium 240	NT2	francium 213	NT2	lutetium 154
NT2	xenon 125	NT2	francium 218	NT2	lutetium 161
NT2	xenon 129	NT2	gadolinium 141	NT2	lutetium 169
NT2	xenon 131	NT2	gadolinium 145	NT2	lutetium 170
NT2	xenon 133	NT2	gadolinium 147	NT2	lutetium 171
NT2	ytterbium 164	NT2	gadolinium 148	NT2	lutetium 172
NT2	ytterbium 165	NT2	gallium 72	NT2	lutetium 174
NT2	ytterbium 166	NT2	gallium 74	NT2	lutetium 177
NT2	ytterbium 177	NT2	germanium 71	NT2	manganese 60
NT2	yttrium 86	NT2	germanium 73	NT2	mercury 193
NT1	isomeric transition isotopes	NT2	germanium 75	NT2	mercury 195
NT2	actinium 222	NT2	germanium 77	NT2	mercury 197
NT2	aluminium 24	NT2	gold 191	NT2	mercury 199
NT2	americium 242	NT2	gold 193	NT2	mercury 201
NT2	antimony 113	NT2	gold 195	NT2	molybdenum 89
NT2	antimony 117	NT2	gold 196	NT2	molybdenum 91
NT2	antimony 122	NT2	gold 197	NT2	molybdenum 92
NT2	antimony 124	NT2	gold 198	NT2	molybdenum 93
NT2	antimony 126	NT2	gold 200	NT2	molybdenum 94
NT2	antimony 131	NT2	hafnium 156	NT2	neodymium 137
NT2	arsenic 75	NT2	hafnium 177	NT2	neodymium 139
NT2	astatine 202	NT2	hafnium 178	NT2	neodymium 141
NT2	barium 127	NT2	hafnium 179	NT2	neptunium 237
NT2	barium 131	NT2	hafnium 180	NT2	niobium 86
NT2	barium 133	NT2	hafnium 182	NT2	niobium 90
NT2	barium 135	NT2	holmium 148	NT2	niobium 91
NT2	barium 136	NT2	holmium 156	NT2	niobium 93
NT2	barium 137	NT2	holmium 158	NT2	niobium 94
NT2	barium 138	NT2	holmium 159	NT2	niobium 95

NT2	niobium 97	NT2	sodium 24	NT2	actinium 216
NT2	nobelium 254	NT2	strontium 83	NT2	actinium 218
NT2	osmium 182	NT2	strontium 85	NT2	actinium 219
NT2	osmium 183	NT2	strontium 87	NT2	astatine 215
NT2	osmium 189	NT2	tantalum 182	NT2	astatine 216
NT2	osmium 190	NT2	technetium 102	NT2	bismuth 185
NT2	osmium 191	NT2	technetium 86	NT2	bismuth 187
NT2	osmium 192	NT2	technetium 93	NT2	bohrium 260
NT2	palladium 107	NT2	technetium 95	NT2	bohrium 263
NT2	palladium 109	NT2	technetium 96	NT2	cesium 112
NT2	palladium 111	NT2	technetium 97	NT2	cesium 113
NT2	palladium 117	NT2	technetium 99	NT2	chromium 64
NT2	platinum 184	NT2	tellurium 121	NT2	darmstadtium 267
NT2	platinum 193	NT2	tellurium 123	NT2	darmstadtium 269
NT2	platinum 195	NT2	tellurium 125	NT2	darmstadtium 273
NT2	platinum 197	NT2	tellurium 127	NT2	dysprosium 140
NT2	platinum 199	NT2	tellurium 129	NT2	element 112 277
NT2	plutonium 237	NT2	tellurium 131	NT2	element 113 278
NT2	polonium 201	NT2	tellurium 133	NT2	element 114 285
NT2	polonium 203	NT2	terbium 142	NT2	europium 130
NT2	polonium 207	NT2	terbium 144	NT2	fermium 242
NT2	polonium 210	NT2	terbium 146	NT2	fermium 258
NT2	potassium 40	NT2	terbium 151	NT2	francium 212
NT2	praseodymium 142	NT2	terbium 152	NT2	francium 213
NT2	praseodymium 144	NT2	terbium 154	NT2	francium 217
NT2	promethium 148	NT2	terbium 156	NT2	gold 170
NT2	protactinium 234	NT2	terbium 158	NT2	gold 171
NT2	radium 213	NT2	thallium 179	NT2	hafnium 156
NT2	radon 197	NT2	thallium 185	NT2	hassium 264
NT2	radon 210	NT2	thallium 186	NT2	hassium 265
NT2	radon 211	NT2	thallium 187	NT2	iodine 109
NT2	rhodium 167	NT2	thallium 193	NT2	iodine 116
NT2	rhodium 169	NT2	thallium 195	NT2	iodine 121
NT2	rhodium 184	NT2	thallium 196	NT2	iodine 122
NT2	rhodium 186	NT2	thallium 197	NT2	iridium 164
NT2	rhodium 188	NT2	thallium 198	NT2	iridium 165
NT2	rhodium 190	NT2	thallium 201	NT2	krypton 84
NT2	rhodium 194	NT2	thallium 206	NT2	krypton 85
NT2	rhodium 100	NT2	thallium 207	NT2	lead 178
NT2	rhodium 101	NT2	thulium 150	NT2	lutetium 154
NT2	rhodium 103	NT2	thulium 162	NT2	meitnerium 266
NT2	rhodium 104	NT2	thulium 164	NT2	mendelevium 245
NT2	rhodium 105	NT2	tin 102	NT2	mercury 171
NT2	rhodium 95	NT2	tin 113	NT2	mercury 172
NT2	rhodium 96	NT2	tin 117	NT2	mercury 173
NT2	rhodium 97	NT2	tin 119	NT2	mercury 201
NT2	rubidium 76	NT2	tin 121	NT2	neon 34
NT2	rubidium 78	NT2	tin 129	NT2	nobelium 250
NT2	rubidium 81	NT2	tin 131	NT2	polonium 186
NT2	rubidium 84	NT2	tungsten 179	NT2	polonium 188
NT2	rubidium 85	NT2	tungsten 180	NT2	polonium 213
NT2	rubidium 86	NT2	tungsten 183	NT2	polonium 214
NT2	rubidium 90	NT2	tungsten 185	NT2	protactinium 218
NT2	ruthenium 93	NT2	uranium 235	NT2	protactinium 221
NT2	samarium 139	NT2	xenon 125	NT2	radium 217
NT2	samarium 141	NT2	xenon 127	NT2	radium 218
NT2	samarium 143	NT2	xenon 129	NT2	radon 194
NT2	scandium 44	NT2	xenon 131	NT2	radon 215
NT2	scandium 46	NT2	xenon 133	NT2	radon 216
NT2	scandium 50	NT2	xenon 135	NT2	radon 217
NT2	selenium 73	NT2	ytterbium 153	NT2	rhodium 159
NT2	selenium 77	NT2	ytterbium 169	NT2	rhodium 160
NT2	selenium 79	NT2	ytterbium 175	NT2	rhodium 194
NT2	selenium 81	NT2	ytterbium 176	NT2	rhodium 89
NT2	silver 101	NT2	ytterbium 177	NT2	rubidium 76
NT2	silver 102	NT2	yttrium 86	NT2	ruthenium 87
NT2	silver 103	NT2	yttrium 87	NT2	rutherfordium 253
NT2	silver 105	NT2	yttrium 88	NT2	rutherfordium 254
NT2	silver 107	NT2	yttrium 89	NT2	technetium 86
NT2	silver 108	NT2	yttrium 90	NT2	tellurium 106
NT2	silver 109	NT2	yttrium 91	NT2	terbium 135
NT2	silver 110	NT2	yttrium 93	NT2	thorium 217
NT2	silver 111	NT2	yttrium 97	NT2	thorium 219
NT2	silver 113	NT2	zinc 69	NT2	thorium 220
NT2	silver 116	NT2	zirconium 85	NT2	thulium 144
NT2	silver 118	NT2	zirconium 87	NT2	thulium 145
NT2	silver 120	NT2	zirconium 89	NT2	tin 102
NT2	silver 99	NT2	zirconium 90	NT2	uranium 219
NT2	sodium 22	NT1	microseconds living radioisotopes	NT2	uranium 222

NT2	uranium 223	NT2	cadmium 130	NT2	fluorine 24
NT2	uranium 224	NT2	cadmium 131	NT2	francium 199
NT2	ytterbium 153	NT2	cadmium 132	NT2	francium 200
NT1	milliseconds living radioisotopes	NT2	cadmium 95	NT2	francium 201
NT2	actinium 206	NT2	cadmium 96	NT2	francium 202
NT2	actinium 207	NT2	calcium 36	NT2	francium 203
NT2	actinium 208	NT2	calcium 37	NT2	francium 206
NT2	actinium 209	NT2	calcium 38	NT2	francium 214
NT2	actinium 210	NT2	calcium 39	NT2	francium 218
NT2	actinium 211	NT2	calcium 53	NT2	francium 219
NT2	actinium 212	NT2	carbon 16	NT2	gadolinium 134
NT2	actinium 213	NT2	carbon 17	NT2	gadolinium 168
NT2	actinium 215	NT2	carbon 18	NT2	gallium 60
NT2	actinium 220	NT2	carbon 9	NT2	gallium 62
NT2	actinium 221	NT2	cerium 119	NT2	gallium 72
NT2	aluminium 22	NT2	cerium 120	NT2	gallium 82
NT2	aluminium 23	NT2	cerium 156	NT2	gallium 83
NT2	aluminium 24	NT2	cerium 157	NT2	gallium 84
NT2	aluminium 31	NT2	cesium 114	NT2	germanium 60
NT2	aluminium 32	NT2	cesium 116	NT2	germanium 61
NT2	aluminium 34	NT2	cesium 145	NT2	germanium 62
NT2	antimony 104	NT2	cesium 146	NT2	germanium 63
NT2	antimony 134	NT2	cesium 147	NT2	germanium 71
NT2	antimony 136	NT2	cesium 148	NT2	germanium 73
NT2	argon 31	NT2	cesium 149	NT2	germanium 85
NT2	argon 32	NT2	cesium 150	NT2	germanium 87
NT2	argon 33	NT2	cesium 151	NT2	gold 172
NT2	argon 34	NT2	chlorine 31	NT2	gold 173
NT2	argon 48	NT2	chlorine 32	NT2	gold 174
NT2	argon 52	NT2	chlorine 50	NT2	gold 175
NT2	argon 53	NT2	chromium 45	NT2	gold 191
NT2	arsenic 64	NT2	chromium 46	NT2	hafnium 155
NT2	arsenic 66	NT2	chromium 47	NT2	hafnium 156
NT2	arsenic 75	NT2	chromium 60	NT2	hafnium 157
NT2	arsenic 84	NT2	chromium 62	NT2	hassium 265
NT2	arsenic 86	NT2	chromium 63	NT2	hassium 266
NT2	arsenic 87	NT2	chromium 64	NT2	hassium 267
NT2	astatine 191	NT2	chromium 65	NT2	hassium 275
NT2	astatine 192	NT2	chromium 66	NT2	helium 6
NT2	astatine 193	NT2	chromium 67	NT2	helium 8
NT2	astatine 194	NT2	cobalt 52	NT2	holmium 140
NT2	astatine 195	NT2	cobalt 53	NT2	holmium 141
NT2	astatine 196	NT2	cobalt 54	NT2	holmium 142
NT2	astatine 197	NT2	cobalt 64	NT2	holmium 143
NT2	astatine 212	NT2	cobalt 66	NT2	holmium 144
NT2	astatine 217	NT2	cobalt 67	NT2	holmium 148
NT2	barium 114	NT2	cobalt 71	NT2	indium 114
NT2	barium 115	NT2	cobalt 72	NT2	indium 128
NT2	barium 116	NT2	cobalt 73	NT2	indium 129
NT2	barium 136	NT2	copper 56	NT2	indium 130
NT2	barium 147	NT2	copper 57	NT2	indium 131
NT2	barium 148	NT2	copper 76	NT2	indium 132
NT2	barium 149	NT2	copper 77	NT2	indium 133
NT2	barium 150	NT2	copper 78	NT2	indium 134
NT2	beryllium 12	NT2	copper 79	NT2	indium 135
NT2	beryllium 14	NT2	darmstadtium 270	NT2	indium 97
NT2	bismuth 184	NT2	darmstadtium 271	NT2	indium 98
NT2	bismuth 186	NT2	darmstadtium 273	NT2	iodine 108
NT2	bismuth 187	NT2	darmstadtium 279	NT2	iodine 110
NT2	bohrium 261	NT2	dysprosium 138	NT2	iodine 140
NT2	bohrium 262	NT2	dysprosium 139	NT2	iodine 141
NT2	bohrium 264	NT2	dysprosium 149	NT2	iodine 142
NT2	bohrium 265	NT2	element 113 283	NT2	iridium 166
NT2	boron 12	NT2	element 113 284	NT2	iridium 167
NT2	boron 13	NT2	element 114 286	NT2	iridium 169
NT2	boron 14	NT2	element 114 287	NT2	iridium 194
NT2	boron 15	NT2	element 114 288	NT2	iron 45
NT2	boron 17	NT2	element 115 287	NT2	iron 46
NT2	boron 8	NT2	element 115 288	NT2	iron 49
NT2	bromine 70	NT2	erbium 151	NT2	iron 51
NT2	bromine 91	NT2	europium 131	NT2	iron 69
NT2	bromine 92	NT2	europium 132	NT2	iron 70
NT2	bromine 93	NT2	europium 133	NT2	krypton 71
NT2	bromine 94	NT2	europium 134	NT2	krypton 94
NT2	cadmium 125	NT2	europium 165	NT2	krypton 95
NT2	cadmium 126	NT2	europium 166	NT2	krypton 99
NT2	cadmium 127	NT2	europium 167	NT2	lanthanum 117
NT2	cadmium 128	NT2	fermium 243	NT2	lanthanum 150
NT2	cadmium 129	NT2	fermium 244	NT2	lawrencium 257

NT2 lead 179	NT2 nitrogen 18	NT2 rhodium 120
NT2 lead 180	NT2 nitrogen 19	NT2 rhodium 121
NT2 lead 181	NT2 nobelium 251	NT2 rhodium 122
NT2 lead 182	NT2 nobelium 254	NT2 rhodium 92
NT2 lead 184	NT2 nobelium 258	NT2 roentgenium 272
NT2 lead 205	NT2 osmium 162	NT2 roentgenium 273
NT2 lead 207	NT2 osmium 164	NT2 roentgenium 274
NT2 lithium 10	NT2 osmium 165	NT2 roentgenium 279
NT2 lithium 11	NT2 osmium 166	NT2 rubidium 100
NT2 lithium 8	NT2 osmium 167	NT2 rubidium 74
NT2 lithium 9	NT2 oxygen 13	NT2 rubidium 95
NT2 lutetium 150	NT2 oxygen 24	NT2 rubidium 96
NT2 lutetium 151	NT2 palladium 117	NT2 rubidium 97
NT2 lutetium 152	NT2 palladium 119	NT2 rubidium 98
NT2 lutetium 153	NT2 palladium 120	NT2 rubidium 99
NT2 lutetium 155	NT2 palladium 92	NT2 ruthenium 114
NT2 lutetium 156	NT2 phosphorus 26	NT2 ruthenium 115
NT2 lutetium 161	NT2 phosphorus 27	NT2 ruthenium 116
NT2 lutetium 170	NT2 phosphorus 28	NT2 ruthenium 117
NT2 magnesium 19	NT2 phosphorus 38	NT2 ruthenium 118
NT2 magnesium 20	NT2 platinum 169	NT2 ruthenium 118
NT2 magnesium 21	NT2 platinum 170	NT2 ruthenium 118
NT2 magnesium 30	NT2 platinum 171	NT2 ruthenium 118
NT2 magnesium 31	NT2 platinum 172	NT2 ruthenium 118
NT2 manganese 48	NT2 platinum 173	NT2 ruthenium 118
NT2 manganese 49	NT2 platinum 174	NT2 ruthenium 118
NT2 manganese 50	NT2 platinum 184	NT2 ruthenium 118
NT2 manganese 61	NT2 plutonium 230	NT2 ruthenium 118
NT2 manganese 62	NT2 polonium 187	NT2 ruthenium 118
NT2 manganese 63	NT2 polonium 189	NT2 ruthenium 118
NT2 manganese 66	NT2 polonium 190	NT2 ruthenium 118
NT2 manganese 67	NT2 polonium 191	NT2 ruthenium 118
NT2 manganese 68	NT2 polonium 192	NT2 ruthenium 118
NT2 manganese 69	NT2 polonium 193	NT2 ruthenium 118
NT2 meitnerium 266	NT2 polonium 194	NT2 ruthenium 118
NT2 meitnerium 267	NT2 polonium 211	NT2 ruthenium 118
NT2 meitnerium 268	NT2 polonium 215	NT2 ruthenium 118
NT2 meitnerium 270	NT2 polonium 216	NT2 ruthenium 118
NT2 meitnerium 275	NT2 potassium 35	NT2 ruthenium 118
NT2 meitnerium 276	NT2 potassium 36	NT2 ruthenium 118
NT2 mendelevium 245	NT2 potassium 50	NT2 ruthenium 118
NT2 mendelevium 246	NT2 potassium 51	NT2 ruthenium 118
NT2 mercury 174	NT2 potassium 52	NT2 ruthenium 118
NT2 mercury 175	NT2 potassium 53	NT2 ruthenium 118
NT2 mercury 176	NT2 potassium 54	NT2 ruthenium 118
NT2 mercury 177	NT2 praseodymium 157	NT2 ruthenium 118
NT2 mercury 178	NT2 praseodymium 158	NT2 ruthenium 118
NT2 molybdenum 109	NT2 praseodymium 159	NT2 ruthenium 118
NT2 molybdenum 111	NT2 protactinium 212	NT2 ruthenium 118
NT2 molybdenum 83	NT2 protactinium 213	NT2 ruthenium 118
NT2 molybdenum 89	NT2 protactinium 214	NT2 ruthenium 118
NT2 neodymium 124	NT2 protactinium 215	NT2 ruthenium 118
NT2 neodymium 125	NT2 protactinium 216	NT2 ruthenium 118
NT2 neodymium 159	NT2 protactinium 217	NT2 ruthenium 118
NT2 neodymium 160	NT2 protactinium 222	NT2 ruthenium 118
NT2 neodymium 161	NT2 protactinium 223	NT2 ruthenium 118
NT2 neon 17	NT2 protactinium 224	NT2 ruthenium 118
NT2 neon 25	NT2 radium 203	NT2 ruthenium 118
NT2 neon 26	NT2 radium 204	NT2 ruthenium 118
NT2 neon 31	NT2 radium 205	NT2 ruthenium 118
NT2 neptunium 226	NT2 radium 206	NT2 ruthenium 118
NT2 neptunium 227	NT2 radium 213	NT2 ruthenium 118
NT2 nickel 49	NT2 radium 215	NT2 ruthenium 118
NT2 nickel 50	NT2 radium 219	NT2 ruthenium 118
NT2 nickel 52	NT2 radium 220	NT2 ruthenium 118
NT2 nickel 53	NT2 radon 193	NT2 ruthenium 118
NT2 nickel 55	NT2 radon 195	NT2 ruthenium 118
NT2 nickel 73	NT2 radon 197	NT2 ruthenium 118
NT2 nickel 75	NT2 radon 198	NT2 ruthenium 118
NT2 nickel 76	NT2 radon 199	NT2 ruthenium 118
NT2 niobium 107	NT2 radon 213	NT2 ruthenium 118
NT2 niobium 108	NT2 radon 218	NT2 ruthenium 118
NT2 niobium 109	NT2 rhenium 161	NT2 ruthenium 118
NT2 niobium 110	NT2 rhenium 162	NT2 ruthenium 118
NT2 niobium 111	NT2 rhenium 163	NT2 ruthenium 118
NT2 niobium 113	NT2 rhenium 164	NT2 ruthenium 118
NT2 niobium 81	NT2 rhodium 115	NT2 ruthenium 118
NT2 niobium 82	NT2 rhodium 116	NT2 ruthenium 118
NT2 nitrogen 12	NT2 rhodium 118	NT2 ruthenium 118

NT2	strontium 101	NT2	xenon 147	NT2	barium 141
NT2	strontium 102	NT2	ytterbium 148	NT2	barium 142
NT2	strontium 75	NT2	ytterbium 149	NT2	berkelium 238
NT2	strontium 97	NT2	ytterbium 154	NT2	berkelium 239
NT2	strontium 98	NT2	ytterbium 175	NT2	berkelium 240
NT2	strontium 99	NT2	yttrium 100	NT2	berkelium 242
NT2	sulfur 26	NT2	yttrium 101	NT2	berkelium 251
NT2	sulfur 28	NT2	yttrium 102	NT2	berkelium 252
NT2	sulfur 29	NT2	yttrium 103	NT2	berkelium 253
NT2	tantalum 156	NT2	yttrium 104	NT2	berkelium 254
NT2	tantalum 157	NT2	yttrium 107	NT2	bismuth 193
NT2	tantalum 158	NT2	yttrium 108	NT2	bismuth 194
NT2	tantalum 159	NT2	yttrium 78	NT2	bismuth 195
NT2	tantalum 182	NT2	yttrium 88	NT2	bismuth 196
NT2	technetium 110	NT2	yttrium 93	NT2	bismuth 197
NT2	technetium 111	NT2	yttrium 97	NT2	bismuth 198
NT2	technetium 112	NT2	yttrium 98	NT2	bismuth 199
NT2	technetium 113	NT2	zinc 57	NT2	bismuth 200
NT2	technetium 114	NT2	zinc 59	NT2	bismuth 201
NT2	technetium 115	NT2	zinc 80	NT2	bismuth 211
NT2	technetium 116	NT2	zinc 81	NT2	bismuth 212
NT2	technetium 117	NT2	zirconium 105	NT2	bismuth 213
NT2	technetium 85	NT2	zirconium 79	NT2	bismuth 214
NT2	technetium 86	NT2	zirconium 90	NT2	bismuth 215
NT2	tellurium 107	NT1	minutes living radioisotopes	NT2	bismuth 216
NT2	terbium 136	NT2	actinium 222	NT2	bohrium 275
NT2	terbium 137	NT2	actinium 223	NT2	bromine 72
NT2	terbium 138	NT2	actinium 230	NT2	bromine 73
NT2	terbium 142	NT2	actinium 231	NT2	bromine 74
NT2	terbium 146	NT2	actinium 232	NT2	bromine 77
NT2	terbium 171	NT2	actinium 233	NT2	bromine 78
NT2	thallium 176	NT2	aluminium 28	NT2	bromine 80
NT2	thallium 177	NT2	aluminium 29	NT2	bromine 82
NT2	thallium 178	NT2	americium 233	NT2	bromine 84
NT2	thallium 179	NT2	americium 234	NT2	bromine 85
NT2	thallium 183	NT2	americium 235	NT2	cadmium 100
NT2	thorium 209	NT2	americium 236	NT2	cadmium 101
NT2	thorium 210	NT2	americium 244	NT2	cadmium 102
NT2	thorium 211	NT2	americium 246	NT2	cadmium 103
NT2	thorium 212	NT2	americium 247	NT2	cadmium 104
NT2	thorium 213	NT2	americium 248	NT2	cadmium 105
NT2	thorium 214	NT2	americium 249	NT2	cadmium 111
NT2	thorium 216	NT2	antimony 111	NT2	cadmium 118
NT2	thorium 221	NT2	antimony 113	NT2	cadmium 119
NT2	thorium 222	NT2	antimony 114	NT2	calcium 49
NT2	thorium 223	NT2	antimony 115	NT2	californium 240
NT2	thulium 146	NT2	antimony 116	NT2	californium 241
NT2	thulium 147	NT2	antimony 118	NT2	californium 242
NT2	thulium 150	NT2	antimony 120	NT2	californium 243
NT2	tin 135	NT2	antimony 122	NT2	californium 244
NT2	tin 136	NT2	antimony 124	NT2	californium 245
NT2	tin 137	NT2	antimony 126	NT2	californium 256
NT2	tin 99	NT2	antimony 128	NT2	carbon 11
NT2	titanium 40	NT2	antimony 129	NT2	cerium 128
NT2	titanium 41	NT2	antimony 130	NT2	cerium 129
NT2	titanium 42	NT2	antimony 131	NT2	cerium 130
NT2	titanium 43	NT2	antimony 132	NT2	cerium 131
NT2	titanium 58	NT2	antimony 133	NT2	cerium 145
NT2	titanium 59	NT2	argon 43	NT2	cerium 146
NT2	titanium 60	NT2	argon 44	NT2	cesium 120
NT2	titanium 61	NT2	arsenic 68	NT2	cesium 121
NT2	tungsten 159	NT2	arsenic 69	NT2	cesium 122
NT2	tungsten 160	NT2	arsenic 70	NT2	cesium 123
NT2	tungsten 161	NT2	arsenic 79	NT2	cesium 125
NT2	uranium 217	NT2	astatine 201	NT2	cesium 126
NT2	uranium 218	NT2	astatine 202	NT2	cesium 128
NT2	uranium 225	NT2	astatine 203	NT2	cesium 130
NT2	uranium 226	NT2	astatine 204	NT2	cesium 135
NT2	vanadium 42	NT2	astatine 205	NT2	cesium 138
NT2	vanadium 44	NT2	astatine 206	NT2	cesium 139
NT2	vanadium 45	NT2	astatine 220	NT2	cesium 140
NT2	vanadium 46	NT2	astatine 221	NT2	chlorine 34
NT2	vanadium 64	NT2	barium 122	NT2	chlorine 38
NT2	vanadium 65	NT2	barium 123	NT2	chlorine 39
NT2	xenon 109	NT2	barium 124	NT2	chlorine 40
NT2	xenon 110	NT2	barium 125	NT2	chromium 49
NT2	xenon 111	NT2	barium 127	NT2	chromium 55
NT2	xenon 143	NT2	barium 131	NT2	chromium 56
NT2	xenon 145	NT2	barium 137	NT2	cobalt 54

NT2 cobalt 60	NT2 hafnium 166	NT2 lead 197
NT2 cobalt 62	NT2 hafnium 167	NT2 lead 199
NT2 copper 59	NT2 hafnium 168	NT2 lead 201
NT2 copper 60	NT2 hafnium 169	NT2 lead 211
NT2 copper 62	NT2 hafnium 177	NT2 lead 213
NT2 copper 66	NT2 hassium 274	NT2 lead 214
NT2 copper 68	NT2 holmium 150	NT2 lutetium 161
NT2 copper 69	NT2 holmium 152	NT2 lutetium 162
NT2 curium 233	NT2 holmium 153	NT2 lutetium 163
NT2 curium 234	NT2 holmium 154	NT2 lutetium 164
NT2 curium 235	NT2 holmium 155	NT2 lutetium 165
NT2 curium 236	NT2 holmium 156	NT2 lutetium 166
NT2 curium 237	NT2 holmium 157	NT2 lutetium 167
NT2 curium 251	NT2 holmium 158	NT2 lutetium 168
NT2 dubnium 264	NT2 holmium 159	NT2 lutetium 169
NT2 dubnium 265	NT2 holmium 160	NT2 lutetium 171
NT2 dubnium 266	NT2 holmium 162	NT2 lutetium 172
NT2 dysprosium 147	NT2 holmium 164	NT2 lutetium 178
NT2 dysprosium 148	NT2 holmium 168	NT2 lutetium 180
NT2 dysprosium 149	NT2 holmium 169	NT2 lutetium 181
NT2 dysprosium 150	NT2 holmium 170	NT2 lutetium 182
NT2 dysprosium 151	NT2 indium 103	NT2 lutetium 187
NT2 dysprosium 165	NT2 indium 104	NT2 magnesium 27
NT2 dysprosium 167	NT2 indium 105	NT2 manganese 50
NT2 dysprosium 168	NT2 indium 106	NT2 manganese 51
NT2 einsteinium 245	NT2 indium 107	NT2 manganese 52
NT2 einsteinium 246	NT2 indium 108	NT2 manganese 57
NT2 einsteinium 247	NT2 indium 109	NT2 manganese 58
NT2 einsteinium 248	NT2 indium 111	NT2 meitnerium 265
NT2 einsteinium 256	NT2 indium 112	NT2 meitnerium 279
NT2 element 112 283	NT2 indium 114	NT2 mendelevium 251
NT2 erbium 154	NT2 indium 116	NT2 mendelevium 252
NT2 erbium 155	NT2 indium 117	NT2 mendelevium 253
NT2 erbium 156	NT2 indium 118	NT2 mendelevium 254
NT2 erbium 157	NT2 indium 119	NT2 mendelevium 255
NT2 erbium 159	NT2 indium 121	NT2 mendelevium 258
NT2 erbium 173	NT2 iodine 115	NT2 mercury 186
NT2 erbium 174	NT2 iodine 117	NT2 mercury 187
NT2 europium 142	NT2 iodine 118	NT2 mercury 188
NT2 europium 143	NT2 iodine 119	NT2 mercury 189
NT2 europium 154	NT2 iodine 120	NT2 mercury 190
NT2 europium 158	NT2 iodine 122	NT2 mercury 191
NT2 europium 159	NT2 iodine 128	NT2 mercury 199
NT2 fermium 249	NT2 iodine 130	NT2 mercury 205
NT2 fermium 250	NT2 iodine 134	NT2 mercury 206
NT2 fluorine 17	NT2 iodine 136	NT2 molybdenum 101
NT2 francium 210	NT2 iridium 179	NT2 molybdenum 102
NT2 francium 211	NT2 iridium 180	NT2 molybdenum 103
NT2 francium 212	NT2 iridium 181	NT2 molybdenum 104
NT2 francium 221	NT2 iridium 182	NT2 molybdenum 88
NT2 francium 222	NT2 iridium 183	NT2 molybdenum 89
NT2 francium 223	NT2 iridium 192	NT2 molybdenum 91
NT2 francium 224	NT2 iridium 197	NT2 neodymium 132
NT2 francium 225	NT2 iridium 199	NT2 neodymium 133
NT2 francium 227	NT2 iron 53	NT2 neodymium 134
NT2 gadolinium 142	NT2 iron 61	NT2 neodymium 135
NT2 gadolinium 143	NT2 iron 62	NT2 neodymium 136
NT2 gadolinium 144	NT2 krypton 74	NT2 neodymium 137
NT2 gadolinium 145	NT2 krypton 75	NT2 neodymium 139
NT2 gadolinium 161	NT2 krypton 89	NT2 neodymium 141
NT2 gadolinium 162	NT2 lanthanum 125	NT2 neodymium 151
NT2 gadolinium 163	NT2 lanthanum 126	NT2 neodymium 152
NT2 gallium 64	NT2 lanthanum 127	NT2 neon 24
NT2 gallium 65	NT2 lanthanum 128	NT2 neptunium 229
NT2 gallium 70	NT2 lanthanum 129	NT2 neptunium 230
NT2 gallium 74	NT2 lanthanum 130	NT2 neptunium 231
NT2 gallium 75	NT2 lanthanum 131	NT2 neptunium 232
NT2 germanium 64	NT2 lanthanum 132	NT2 neptunium 233
NT2 germanium 67	NT2 lanthanum 134	NT2 neptunium 240
NT2 gold 185	NT2 lanthanum 136	NT2 neptunium 241
NT2 gold 186	NT2 lanthanum 143	NT2 neptunium 242
NT2 gold 187	NT2 lawrencium 260	NT2 neptunium 243
NT2 gold 188	NT2 lead 190	NT2 neptunium 244
NT2 gold 189	NT2 lead 191	NT2 niobium 85
NT2 gold 190	NT2 lead 192	NT2 niobium 86
NT2 gold 200	NT2 lead 193	NT2 niobium 87
NT2 gold 201	NT2 lead 194	NT2 niobium 88
NT2 hafnium 164	NT2 lead 195	NT2 niobium 94
NT2 hafnium 165	NT2 lead 196	NT2 niobium 98

NT2 niobium 99	NT2 radium 229	NT2 silver 108
NT2 nitrogen 13	NT2 radium 231	NT2 silver 111
NT2 nobelium 253	NT2 radium 232	NT2 silver 113
NT2 nobelium 255	NT2 radon 204	NT2 silver 115
NT2 nobelium 259	NT2 radon 205	NT2 silver 116
NT2 osmium 175	NT2 radon 206	NT2 silver 117
NT2 osmium 176	NT2 radon 207	NT2 silver 99
NT2 osmium 177	NT2 radon 208	NT2 strontium 78
NT2 osmium 178	NT2 radon 209	NT2 strontium 79
NT2 osmium 179	NT2 radon 212	NT2 strontium 81
NT2 osmium 180	NT2 radon 221	NT2 strontium 93
NT2 osmium 181	NT2 radon 223	NT2 strontium 94
NT2 osmium 190	NT2 radon 225	NT2 sulfur 37
NT2 osmium 195	NT2 radon 226	NT2 tantalum 167
NT2 osmium 196	NT2 rhenium 173	NT2 tantalum 168
NT2 osmium 197	NT2 rhenium 174	NT2 tantalum 169
NT2 oxygen 14	NT2 rhenium 175	NT2 tantalum 170
NT2 oxygen 15	NT2 rhenium 176	NT2 tantalum 171
NT2 palladium 109	NT2 rhenium 177	NT2 tantalum 172
NT2 palladium 111	NT2 rhenium 178	NT2 tantalum 178
NT2 palladium 113	NT2 rhenium 179	NT2 tantalum 182
NT2 palladium 114	NT2 rhenium 180	NT2 tantalum 185
NT2 palladium 96	NT2 rhenium 188	NT2 tantalum 186
NT2 palladium 97	NT2 rhenium 190	NT2 tantalum 187
NT2 palladium 98	NT2 rhenium 191	NT2 technetium 101
NT2 palladium 99	NT2 rhodium 100	NT2 technetium 102
NT2 phosphorus 30	NT2 rhodium 103	NT2 technetium 104
NT2 platinum 182	NT2 rhodium 104	NT2 technetium 105
NT2 platinum 183	NT2 rhodium 107	NT2 technetium 91
NT2 platinum 184	NT2 rhodium 108	NT2 technetium 92
NT2 platinum 185	NT2 rhodium 109	NT2 technetium 93
NT2 platinum 199	NT2 rhodium 94	NT2 technetium 94
NT2 platinum 201	NT2 rhodium 95	NT2 technetium 96
NT2 plutonium 232	NT2 rhodium 96	NT2 tellurium 112
NT2 plutonium 233	NT2 rhodium 97	NT2 tellurium 113
NT2 plutonium 235	NT2 rhodium 98	NT2 tellurium 114
NT2 polonium 198	NT2 rubidium 77	NT2 tellurium 115
NT2 polonium 199	NT2 rubidium 78	NT2 tellurium 131
NT2 polonium 200	NT2 rubidium 79	NT2 tellurium 133
NT2 polonium 201	NT2 rubidium 81	NT2 tellurium 134
NT2 polonium 202	NT2 rubidium 82	NT2 terbium 147
NT2 polonium 203	NT2 rubidium 84	NT2 terbium 148
NT2 polonium 218	NT2 rubidium 86	NT2 terbium 149
NT2 potassium 38	NT2 rubidium 88	NT2 terbium 150
NT2 potassium 44	NT2 rubidium 89	NT2 terbium 152
NT2 potassium 45	NT2 rubidium 90	NT2 terbium 162
NT2 potassium 46	NT2 ruthenium 107	NT2 terbium 163
NT2 praseodymium 131	NT2 ruthenium 108	NT2 terbium 164
NT2 praseodymium 132	NT2 ruthenium 92	NT2 terbium 165
NT2 praseodymium 133	NT2 ruthenium 93	NT2 thallium 188
NT2 praseodymium 134	NT2 ruthenium 94	NT2 thallium 189
NT2 praseodymium 135	NT2 rutherfordium 261	NT2 thallium 190
NT2 praseodymium 136	NT2 rutherfordium 263	NT2 thallium 191
NT2 praseodymium 138	NT2 samarium 138	NT2 thallium 192
NT2 praseodymium 140	NT2 samarium 139	NT2 thallium 193
NT2 praseodymium 142	NT2 samarium 140	NT2 thallium 194
NT2 praseodymium 144	NT2 samarium 141	NT2 thallium 206
NT2 praseodymium 146	NT2 samarium 143	NT2 thallium 207
NT2 praseodymium 147	NT2 samarium 155	NT2 thallium 208
NT2 praseodymium 148	NT2 samarium 157	NT2 thallium 209
NT2 praseodymium 149	NT2 samarium 158	NT2 thallium 210
NT2 promethium 136	NT2 scandium 49	NT2 thorium 225
NT2 promethium 137	NT2 scandium 50	NT2 thorium 226
NT2 promethium 138	NT2 seaborgium 270	NT2 thorium 233
NT2 promethium 139	NT2 seaborgium 271	NT2 thorium 235
NT2 promethium 140	NT2 selenium 68	NT2 thorium 236
NT2 promethium 141	NT2 selenium 70	NT2 thorium 237
NT2 promethium 152	NT2 selenium 71	NT2 thulium 156
NT2 promethium 153	NT2 selenium 73	NT2 thulium 157
NT2 promethium 154	NT2 selenium 79	NT2 thulium 158
NT2 protactinium 226	NT2 selenium 81	NT2 thulium 159
NT2 protactinium 227	NT2 selenium 83	NT2 thulium 160
NT2 protactinium 234	NT2 selenium 84	NT2 thulium 161
NT2 protactinium 235	NT2 silver 100	NT2 thulium 162
NT2 protactinium 236	NT2 silver 101	NT2 thulium 164
NT2 protactinium 237	NT2 silver 102	NT2 thulium 174
NT2 protactinium 238	NT2 silver 104	NT2 thulium 175
NT2 radium 213	NT2 silver 105	NT2 thulium 176
NT2 radium 227	NT2 silver 106	NT2 thulium 177

NT2	tin 106	NT2	astatine 214	NT2	chlorine 29
NT2	tin 107	NT2	barium 138	NT2	chlorine 30
NT2	tin 108	NT2	bismuth 211	NT2	cobalt 49
NT2	tin 109	NT2	bromine 83	NT2	cobalt 52
NT2	tin 111	NT2	calcium 34	NT2	cobalt 53
NT2	tin 113	NT2	carbon 21	NT2	copper 52
NT2	tin 123	NT2	chlorine 29	NT2	copper 53
NT2	tin 125	NT2	chlorine 30	NT2	copper 54
NT2	tin 127	NT2	chromium 65	NT2	europium 130
NT2	tin 128	NT2	chromium 66	NT2	europium 131
NT2	tin 129	NT2	cobalt 49	NT2	europium 132
NT2	tin 130	NT2	fermium 256	NT2	fluorine 14
NT2	tin 131	NT2	fluorine 18	NT2	germanium 62
NT2	titanium 51	NT2	fluorine 28	NT2	gold 170
NT2	titanium 52	NT2	fluorine 30	NT2	gold 171
NT2	tungsten 170	NT2	fluorine 31	NT2	holmium 140
NT2	tungsten 171	NT2	francium 211	NT2	holmium 141
NT2	tungsten 172	NT2	francium 212	NT2	iodine 109
NT2	tungsten 173	NT2	francium 213	NT2	iridium 164
NT2	tungsten 174	NT2	francium 215	NT2	iridium 165
NT2	tungsten 175	NT2	francium 216	NT2	iron 45
NT2	tungsten 179	NT2	gadolinium 136	NT2	lanthanum 117
NT2	tungsten 185	NT2	gadolinium 147	NT2	lutetium 150
NT2	tungsten 189	NT2	gadolinium 148	NT2	lutetium 151
NT2	tungsten 190	NT2	germanium 86	NT2	manganese 45
NT2	uranium 227	NT2	germanium 88	NT2	nitrogen 10
NT2	uranium 228	NT2	germanium 89	NT2	potassium 33
NT2	uranium 229	NT2	krypton 86	NT2	potassium 34
NT2	uranium 235	NT2	krypton 97	NT2	rhenium 159
NT2	uranium 239	NT2	lead 194	NT2	rhenium 160
NT2	uranium 241	NT2	lead 200	NT2	rubidium 71
NT2	uranium 242	NT2	magnesium 37	NT2	rubidium 72
NT2	vanadium 47	NT2	magnesium 39	NT2	scandium 36
NT2	vanadium 52	NT2	manganese 45	NT2	scandium 37
NT2	vanadium 53	NT2	molybdenum 92	NT2	scandium 38
NT2	xenon 117	NT2	molybdenum 94	NT2	scandium 39
NT2	xenon 118	NT2	neon 33	NT2	selenium 66
NT2	xenon 119	NT2	neptunium 237	NT2	sodium 19
NT2	xenon 120	NT2	osmium 182	NT2	sulfur 26
NT2	xenon 121	NT2	oxygen 25	NT2	tantalum 155
NT2	xenon 127	NT2	oxygen 26	NT2	terbium 135
NT2	xenon 135	NT2	oxygen 27	NT2	terbium 137
NT2	xenon 137	NT2	phosphorus 25	NT2	terbium 138
NT2	xenon 138	NT2	plutonium 237	NT2	thallium 176
NT2	ytterbium 158	NT2	polonium 210	NT2	thallium 177
NT2	ytterbium 159	NT2	polonium 212	NT2	thulium 144
NT2	ytterbium 160	NT2	potassium 40	NT2	thulium 145
NT2	ytterbium 161	NT2	protactinium 219	NT2	thulium 146
NT2	ytterbium 162	NT2	protactinium 220	NT2	thulium 147
NT2	ytterbium 163	NT2	radium 216	NT2	vanadium 40
NT2	ytterbium 165	NT2	radon 210	NT2	vanadium 41
NT2	ytterbium 167	NT2	radon 211	NT2	zinc 54
NT2	ytterbium 179	NT2	radon 214	NT2	zinc 55
NT2	ytterbium 180	NT2	rhodium 90	NT2	zinc 56
NT2	yttrium 81	NT2	rhodium 91	NT1	seconds living radioisotopes
NT2	yttrium 83	NT2	rubidium 85	NT2	actinium 214
NT2	yttrium 84	NT2	scandium 38	NT2	actinium 222
NT2	yttrium 86	NT2	selenium 64	NT2	actinium 234
NT2	yttrium 91	NT2	sodium 22	NT2	actinium 235
NT2	yttrium 94	NT2	tellurium 105	NT2	aluminium 24
NT2	yttrium 95	NT2	thorium 218	NT2	aluminium 25
NT2	zinc 60	NT2	titanium 58	NT2	aluminium 26
NT2	zinc 61	NT2	titanium 59	NT2	aluminium 30
NT2	zinc 63	NT2	vanadium 61	NT2	americium 231
NT2	zinc 69	NT2	vanadium 62	NT2	americium 232
NT2	zinc 71	NT2	vanadium 63	NT2	antimony 105
NT2	zinc 74	NT2	zirconium 109	NT2	antimony 106
NT2	zirconium 81	NT1	neutron-deficient isotopes	NT2	antimony 107
NT2	zirconium 82	NT1	proton decay radioisotopes	NT2	antimony 108
NT2	zirconium 84	NT2	aluminium 21	NT2	antimony 109
NT2	zirconium 85	NT2	argon 30	NT2	antimony 110
NT2	zirconium 89	NT2	arsenic 62	NT2	antimony 112
NT1	nanoseconds living radioisotopes	NT2	arsenic 63	NT2	antimony 126
NT2	actinium 217	NT2	arsenic 64	NT2	antimony 134
NT2	aluminium 40	NT2	bismuth 185	NT2	antimony 135
NT2	antimony 113	NT2	calcium 34	NT2	argon 35
NT2	antimony 117	NT2	cesium 112	NT2	argon 45
NT2	argon 30	NT2	cesium 113	NT2	argon 46
NT2	astatine 213	NT2	chlorine 28	NT2	arsenic 67



NT2 arsenic 80	NT2 cesium 118	NT2 fermium 248
NT2 arsenic 81	NT2 cesium 119	NT2 fermium 250
NT2 arsenic 82	NT2 cesium 122	NT2 fermium 259
NT2 arsenic 83	NT2 cesium 123	NT2 fluorine 20
NT2 arsenic 84	NT2 cesium 124	NT2 fluorine 21
NT2 arsenic 85	NT2 cesium 136	NT2 fluorine 22
NT2 astatine 198	NT2 cesium 141	NT2 fluorine 23
NT2 astatine 199	NT2 cesium 142	NT2 francium 204
NT2 astatine 200	NT2 cesium 143	NT2 francium 205
NT2 astatine 202	NT2 cesium 144	NT2 francium 206
NT2 astatine 218	NT2 chlorine 33	NT2 francium 207
NT2 astatine 219	NT2 chlorine 34	NT2 francium 208
NT2 astatine 222	NT2 chlorine 38	NT2 francium 209
NT2 astatine 223	NT2 chlorine 41	NT2 francium 213
NT2 barium 117	NT2 chromium 57	NT2 francium 220
NT2 barium 118	NT2 chromium 58	NT2 francium 226
NT2 barium 119	NT2 chromium 59	NT2 francium 228
NT2 barium 120	NT2 cobalt 63	NT2 francium 229
NT2 barium 121	NT2 cobalt 65	NT2 francium 230
NT2 barium 127	NT2 copper 58	NT2 francium 231
NT2 barium 143	NT2 copper 68	NT2 francium 232
NT2 barium 144	NT2 copper 70	NT2 gadolinium 135
NT2 barium 145	NT2 copper 71	NT2 gadolinium 140
NT2 barium 146	NT2 copper 72	NT2 gadolinium 141
NT2 berkelium 235	NT2 copper 73	NT2 gadolinium 143
NT2 beryllium 11	NT2 copper 74	NT2 gadolinium 164
NT2 bismuth 189	NT2 copper 75	NT2 gadolinium 165
NT2 bismuth 190	NT2 dubnium 255	NT2 gadolinium 166
NT2 bismuth 191	NT2 dubnium 256	NT2 gadolinium 167
NT2 bismuth 192	NT2 dubnium 257	NT2 gadolinium 169
NT2 bismuth 193	NT2 dubnium 258	NT2 gallium 63
NT2 bismuth 198	NT2 dubnium 259	NT2 gallium 74
NT2 bismuth 217	NT2 dubnium 260	NT2 gallium 76
NT2 bismuth 218	NT2 dubnium 261	NT2 gallium 77
NT2 bohrium 266	NT2 dubnium 262	NT2 gallium 78
NT2 bohrium 267	NT2 dubnium 263	NT2 gallium 79
NT2 bohrium 271	NT2 dysprosium 140	NT2 gallium 80
NT2 bohrium 272	NT2 dysprosium 141	NT2 gallium 81
NT2 bromine 71	NT2 dysprosium 142	NT2 germanium 65
NT2 bromine 76	NT2 dysprosium 143	NT2 germanium 75
NT2 bromine 79	NT2 dysprosium 144	NT2 germanium 77
NT2 bromine 86	NT2 dysprosium 145	NT2 germanium 79
NT2 bromine 87	NT2 dysprosium 146	NT2 germanium 80
NT2 bromine 88	NT2 dysprosium 147	NT2 germanium 81
NT2 bromine 89	NT2 dysprosium 169	NT2 germanium 82
NT2 bromine 90	NT2 dysprosium 170	NT2 germanium 83
NT2 cadmium 120	NT2 dysprosium 171	NT2 germanium 84
NT2 cadmium 121	NT2 einsteinium 241	NT2 gold 176
NT2 cadmium 122	NT2 einsteinium 242	NT2 gold 177
NT2 cadmium 123	NT2 einsteinium 243	NT2 gold 178
NT2 cadmium 124	NT2 einsteinium 244	NT2 gold 179
NT2 cadmium 97	NT2 element 114 289	NT2 gold 180
NT2 cadmium 98	NT2 erbium 146	NT2 gold 181
NT2 cadmium 99	NT2 erbium 147	NT2 gold 182
NT2 calcium 50	NT2 erbium 148	NT2 gold 183
NT2 calcium 51	NT2 erbium 149	NT2 gold 184
NT2 calcium 52	NT2 erbium 150	NT2 gold 193
NT2 californium 237	NT2 erbium 151	NT2 gold 195
NT2 californium 239	NT2 erbium 152	NT2 gold 196
NT2 carbon 10	NT2 erbium 153	NT2 gold 197
NT2 carbon 15	NT2 erbium 167	NT2 gold 202
NT2 cerium 121	NT2 erbium 176	NT2 gold 203
NT2 cerium 122	NT2 erbium 177	NT2 gold 204
NT2 cerium 123	NT2 europium 135	NT2 gold 205
NT2 cerium 124	NT2 europium 136	NT2 hafnium 154
NT2 cerium 125	NT2 europium 138	NT2 hafnium 158
NT2 cerium 126	NT2 europium 139	NT2 hafnium 159
NT2 cerium 127	NT2 europium 140	NT2 hafnium 160
NT2 cerium 135	NT2 europium 141	NT2 hafnium 161
NT2 cerium 139	NT2 europium 142	NT2 hafnium 162
NT2 cerium 147	NT2 europium 144	NT2 hafnium 163
NT2 cerium 148	NT2 europium 160	NT2 hafnium 177
NT2 cerium 149	NT2 europium 161	NT2 hafnium 178
NT2 cerium 150	NT2 europium 162	NT2 hafnium 179
NT2 cerium 151	NT2 europium 163	NT2 hafnium 187
NT2 cerium 152	NT2 europium 164	NT2 hafnium 188
NT2 cesium 115	NT2 fermium 245	NT2 hassium 269
NT2 cesium 116	NT2 fermium 246	NT2 hassium 270
NT2 cesium 117	NT2 fermium 247	NT2 hassium 271

NT2	hassium 272	NT2	lanthanum 148	NT2	niobium 97
NT2	holmium 145	NT2	lanthanum 149	NT2	niobium 98
NT2	holmium 146	NT2	lawrencium 252	NT2	niobium 99
NT2	holmium 148	NT2	lawrencium 253	NT2	nitrogen 16
NT2	holmium 149	NT2	lawrencium 254	NT2	nitrogen 17
NT2	holmium 150	NT2	lawrencium 255	NT2	nobelium 252
NT2	holmium 151	NT2	lawrencium 256	NT2	nobelium 254
NT2	holmium 152	NT2	lawrencium 258	NT2	nobelium 256
NT2	holmium 159	NT2	lawrencium 259	NT2	nobelium 257
NT2	holmium 161	NT2	lead 185	NT2	osmium 168
NT2	holmium 163	NT2	lead 186	NT2	osmium 169
NT2	holmium 170	NT2	lead 187	NT2	osmium 170
NT2	holmium 171	NT2	lead 188	NT2	osmium 171
NT2	holmium 172	NT2	lead 189	NT2	osmium 172
NT2	holmium 173	NT2	lead 203	NT2	osmium 173
NT2	holmium 174	NT2	lutetium 154	NT2	osmium 174
NT2	holmium 175	NT2	lutetium 157	NT2	osmium 192
NT2	indium 101	NT2	lutetium 158	NT2	osmium 199
NT2	indium 102	NT2	lutetium 159	NT2	oxygen 19
NT2	indium 104	NT2	lutetium 160	NT2	oxygen 20
NT2	indium 105	NT2	lutetium 183	NT2	oxygen 21
NT2	indium 107	NT2	lutetium 184	NT2	oxygen 22
NT2	indium 116	NT2	magnesium 22	NT2	palladium 107
NT2	indium 118	NT2	magnesium 23	NT2	palladium 115
NT2	indium 120	NT2	magnesium 29	NT2	palladium 116
NT2	indium 121	NT2	manganese 58	NT2	palladium 117
NT2	indium 122	NT2	manganese 59	NT2	palladium 118
NT2	indium 123	NT2	manganese 60	NT2	palladium 93
NT2	indium 124	NT2	meitnerium 271	NT2	palladium 94
NT2	indium 125	NT2	meitnerium 272	NT2	palladium 95
NT2	indium 126	NT2	meitnerium 273	NT2	phosphorus 29
NT2	indium 127	NT2	meitnerium 274	NT2	phosphorus 34
NT2	indium 129	NT2	mendelevium 247	NT2	phosphorus 35
NT2	indium 98	NT2	mendelevium 248	NT2	phosphorus 36
NT2	indium 99	NT2	mendelevium 249	NT2	phosphorus 37
NT2	iodine 111	NT2	mendelevium 250	NT2	platinum 175
NT2	iodine 112	NT2	mercury 179	NT2	platinum 176
NT2	iodine 113	NT2	mercury 180	NT2	platinum 177
NT2	iodine 114	NT2	mercury 181	NT2	platinum 178
NT2	iodine 116	NT2	mercury 182	NT2	platinum 179
NT2	iodine 133	NT2	mercury 183	NT2	platinum 180
NT2	iodine 136	NT2	mercury 184	NT2	platinum 181
NT2	iodine 137	NT2	mercury 185	NT2	platinum 183
NT2	iodine 138	NT2	molybdenum 105	NT2	platinum 199
NT2	iodine 139	NT2	molybdenum 106	NT2	plutonium 229
NT2	iridium 170	NT2	molybdenum 107	NT2	polonium 195
NT2	iridium 171	NT2	molybdenum 108	NT2	polonium 196
NT2	iridium 172	NT2	molybdenum 110	NT2	polonium 197
NT2	iridium 173	NT2	molybdenum 86	NT2	polonium 203
NT2	iridium 174	NT2	molybdenum 87	NT2	polonium 207
NT2	iridium 175	NT2	neodymium 127	NT2	polonium 211
NT2	iridium 176	NT2	neodymium 129	NT2	polonium 212
NT2	iridium 177	NT2	neodymium 130	NT2	polonium 217
NT2	iridium 178	NT2	neodymium 131	NT2	potassium 37
NT2	iridium 191	NT2	neodymium 137	NT2	potassium 38
NT2	iridium 196	NT2	neodymium 153	NT2	potassium 47
NT2	iridium 198	NT2	neodymium 154	NT2	potassium 48
NT2	iron 52	NT2	neodymium 155	NT2	potassium 49
NT2	iron 63	NT2	neodymium 156	NT2	praseodymium 124
NT2	iron 64	NT2	neon 18	NT2	praseodymium 125
NT2	krypton 72	NT2	neon 19	NT2	praseodymium 126
NT2	krypton 73	NT2	neon 23	NT2	praseodymium 127
NT2	krypton 79	NT2	nickel 67	NT2	praseodymium 128
NT2	krypton 81	NT2	nickel 69	NT2	praseodymium 129
NT2	krypton 90	NT2	nickel 70	NT2	praseodymium 130
NT2	krypton 91	NT2	nickel 71	NT2	praseodymium 150
NT2	krypton 92	NT2	nickel 72	NT2	praseodymium 151
NT2	krypton 93	NT2	nickel 74	NT2	praseodymium 152
NT2	lanthanum 118	NT2	niobium 100	NT2	praseodymium 153
NT2	lanthanum 119	NT2	niobium 101	NT2	praseodymium 154
NT2	lanthanum 120	NT2	niobium 102	NT2	promethium 128
NT2	lanthanum 121	NT2	niobium 103	NT2	promethium 129
NT2	lanthanum 122	NT2	niobium 104	NT2	promethium 130
NT2	lanthanum 123	NT2	niobium 105	NT2	promethium 131
NT2	lanthanum 124	NT2	niobium 106	NT2	promethium 132
NT2	lanthanum 144	NT2	niobium 83	NT2	promethium 133
NT2	lanthanum 145	NT2	niobium 84	NT2	promethium 134
NT2	lanthanum 146	NT2	niobium 85	NT2	promethium 135
NT2	lanthanum 147	NT2	niobium 90	NT2	promethium 140

NT2	promethium 142	NT2	samarium 137	NT2	terbium 140
NT2	promethium 155	NT2	samarium 139	NT2	terbium 141
NT2	promethium 156	NT2	samarium 159	NT2	terbium 143
NT2	promethium 157	NT2	samarium 160	NT2	terbium 144
NT2	promethium 158	NT2	samarium 161	NT2	terbium 145
NT2	promethium 159	NT2	samarium 162	NT2	terbium 146
NT2	protactinium 225	NT2	scandium 42	NT2	terbium 151
NT2	radium 207	NT2	scandium 46	NT2	terbium 158
NT2	radium 208	NT2	scandium 51	NT2	terbium 166
NT2	radium 209	NT2	scandium 52	NT2	terbium 167
NT2	radium 210	NT2	seaborgium 265	NT2	terbium 168
NT2	radium 211	NT2	seaborgium 266	NT2	terbium 169
NT2	radium 212	NT2	seaborgium 268	NT2	terbium 170
NT2	radium 214	NT2	selenium 69	NT2	thallium 180
NT2	radium 221	NT2	selenium 77	NT2	thallium 181
NT2	radium 222	NT2	selenium 85	NT2	thallium 182
NT2	radium 233	NT2	selenium 86	NT2	thallium 184
NT2	radium 234	NT2	selenium 87	NT2	thallium 185
NT2	radon 200	NT2	selenium 88	NT2	thallium 186
NT2	radon 201	NT2	silicon 26	NT2	thallium 187
NT2	radon 202	NT2	silicon 27	NT2	thallium 195
NT2	radon 203	NT2	silicon 33	NT2	thallium 197
NT2	radon 219	NT2	silicon 34	NT2	thallium 207
NT2	radon 220	NT2	silver 101	NT2	thorium 215
NT2	radon 227	NT2	silver 103	NT2	thorium 223
NT2	radon 228	NT2	silver 107	NT2	thorium 224
NT2	rhenium 165	NT2	silver 109	NT2	thulium 151
NT2	rhenium 166	NT2	silver 110	NT2	thulium 152
NT2	rhenium 167	NT2	silver 114	NT2	thulium 153
NT2	rhenium 168	NT2	silver 115	NT2	thulium 154
NT2	rhenium 169	NT2	silver 116	NT2	thulium 155
NT2	rhenium 170	NT2	silver 117	NT2	thulium 156
NT2	rhenium 171	NT2	silver 118	NT2	thulium 162
NT2	rhenium 172	NT2	silver 119	NT2	thulium 178
NT2	rhenium 192	NT2	silver 120	NT2	thulium 179
NT2	rhodium 104	NT2	silver 122	NT2	tin 102
NT2	rhodium 105	NT2	silver 96	NT2	tin 103
NT2	rhodium 106	NT2	silver 97	NT2	tin 105
NT2	rhodium 108	NT2	silver 98	NT2	tin 128
NT2	rhodium 110	NT2	silver 99	NT2	tin 131
NT2	rhodium 111	NT2	sodium 21	NT2	tin 132
NT2	rhodium 112	NT2	sodium 25	NT2	tin 133
NT2	rhodium 113	NT2	sodium 26	NT2	tin 134
NT2	rhodium 114	NT2	strontium 76	NT2	titanium 53
NT2	rhodium 117	NT2	strontium 77	NT2	tungsten 160
NT2	rhodium 90	NT2	strontium 83	NT2	tungsten 162
NT2	rhodium 91	NT2	strontium 95	NT2	tungsten 163
NT2	rhodium 92	NT2	strontium 96	NT2	tungsten 164
NT2	rhodium 93	NT2	sulfur 30	NT2	tungsten 165
NT2	rhodium 94	NT2	sulfur 31	NT2	tungsten 166
NT2	roentgenium 280	NT2	sulfur 39	NT2	tungsten 167
NT2	rubidium 75	NT2	sulfur 40	NT2	tungsten 168
NT2	rubidium 76	NT2	tantalum 160	NT2	tungsten 169
NT2	rubidium 80	NT2	tantalum 161	NT2	tungsten 183
NT2	rubidium 91	NT2	tantalum 162	NT2	vanadium 43
NT2	rubidium 92	NT2	tantalum 163	NT2	vanadium 54
NT2	rubidium 93	NT2	tantalum 164	NT2	vanadium 55
NT2	rubidium 94	NT2	tantalum 165	NT2	xenon 112
NT2	ruthenium 109	NT2	tantalum 166	NT2	xenon 113
NT2	ruthenium 110	NT2	tantalum 188	NT2	xenon 114
NT2	ruthenium 111	NT2	technetium 100	NT2	xenon 115
NT2	ruthenium 112	NT2	technetium 102	NT2	xenon 116
NT2	ruthenium 113	NT2	technetium 103	NT2	xenon 125
NT2	ruthenium 89	NT2	technetium 106	NT2	xenon 139
NT2	ruthenium 90	NT2	technetium 107	NT2	xenon 140
NT2	ruthenium 91	NT2	technetium 108	NT2	xenon 141
NT2	ruthenium 93	NT2	technetium 109	NT2	xenon 142
NT2	rutherfordium 253	NT2	technetium 87	NT2	xenon 144
NT2	rutherfordium 255	NT2	technetium 88	NT2	ytterbium 153
NT2	rutherfordium 257	NT2	technetium 90	NT2	ytterbium 155
NT2	rutherfordium 259	NT2	tellurium 108	NT2	ytterbium 156
NT2	rutherfordium 262	NT2	tellurium 109	NT2	ytterbium 157
NT2	samarium 130	NT2	tellurium 110	NT2	ytterbium 169
NT2	samarium 131	NT2	tellurium 111	NT2	ytterbium 176
NT2	samarium 132	NT2	tellurium 135	NT2	ytterbium 177
NT2	samarium 133	NT2	tellurium 136	NT2	yttrium 78
NT2	samarium 134	NT2	tellurium 137	NT2	yttrium 79
NT2	samarium 135	NT2	tellurium 138	NT2	yttrium 80
NT2	samarium 136	NT2	terbium 139	NT2	yttrium 82

NT2	yttrium 84	NT2	fermium 246	NT2	bismuth 207
NT2	yttrium 89	NT2	fermium 248	NT2	bismuth 208
NT2	yttrium 96	NT2	fermium 250	NT2	bismuth 210
NT2	yttrium 97	NT2	fermium 252	NT2	cadmium 109
NT2	yttrium 98	NT2	fermium 254	NT2	cadmium 113
NT2	yttrium 99	NT2	fermium 255	NT2	calcium 41
NT2	zinc 73	NT2	fermium 256	NT2	californium 249
NT2	zinc 75	NT2	fermium 257	NT2	californium 250
NT2	zinc 76	NT2	fermium 258	NT2	californium 251
NT2	zinc 77	NT2	fermium 259	NT2	californium 252
NT2	zinc 78	NT2	fermium 260	NT2	carbon 14
NT2	zinc 79	NT2	hassium 264	NT2	cesium 134
NT2	zirconium 100	NT2	hassium 265	NT2	cesium 135
NT2	zirconium 101	NT2	meitnerium 266	NT2	cesium 137
NT2	zirconium 102	NT2	mendelevium 245	NT2	chlorine 36
NT2	zirconium 103	NT2	mendelevium 246	NT2	cobalt 60
NT2	zirconium 104	NT2	mendelevium 259	NT2	curium 243
NT2	zirconium 83	NT2	neptunium 237	NT2	curium 244
NT2	zirconium 85	NT2	nobelium 250	NT2	curium 245
NT2	zirconium 87	NT2	nobelium 252	NT2	curium 246
NT2	zirconium 98	NT2	nobelium 254	NT2	curium 247
NT2	zirconium 99	NT2	nobelium 256	NT2	curium 248
NT1	spontaneous fission radioisotopes	NT2	nobelium 258	NT2	curium 250
NT2	americium 237	NT2	nobelium 258	NT2	dysprosium 154
NT2	americium 238	NT2	plutonium 235	NT2	einsteinium 252
NT2	americium 239	NT2	plutonium 236	NT2	europium 150
NT2	americium 240	NT2	plutonium 237	NT2	europium 152
NT2	americium 241	NT2	plutonium 238	NT2	europium 154
NT2	americium 242	NT2	plutonium 239	NT2	europium 155
NT2	americium 243	NT2	plutonium 240	NT2	gadolinium 148
NT2	americium 244	NT2	plutonium 241	NT2	gadolinium 150
NT2	americium 245	NT2	plutonium 242	NT2	gadolinium 152
NT2	americium 246	NT2	plutonium 243	NT2	gadolinium 152
NT2	berkelium 242	NT2	plutonium 244	NT2	hafnium 172
NT2	berkelium 243	NT2	plutonium 244	NT2	hafnium 174
NT2	berkelium 244	NT2	rutherfordium 253	NT2	hafnium 178
NT2	berkelium 245	NT2	rutherfordium 254	NT2	hafnium 182
NT2	berkelium 249	NT2	rutherfordium 255	NT2	holmium 163
NT2	bohrium 261	NT2	rutherfordium 256	NT2	holmium 166
NT2	bohrium 262	NT2	rutherfordium 257	NT2	indium 115
NT2	californium 237	NT2	rutherfordium 258	NT2	iodine 129
NT2	californium 246	NT2	rutherfordium 259	NT2	iridium 192
NT2	californium 248	NT2	rutherfordium 260	NT2	iron 55
NT2	californium 249	NT2	rutherfordium 261	NT2	iron 60
NT2	californium 250	NT2	rutherfordium 262	NT2	krypton 81
NT2	californium 252	NT2	rutherfordium 263	NT2	krypton 85
NT2	californium 254	NT2	rutherfordium 267	NT2	lanthanum 137
NT2	californium 256	NT2	seaborgium 258	NT2	lanthanum 138
NT2	curium 240	NT2	seaborgium 259	NT2	lead 202
NT2	curium 241	NT2	seaborgium 260	NT2	lead 205
NT2	curium 242	NT2	seaborgium 261	NT2	lead 210
NT2	curium 243	NT2	seaborgium 262	NT2	lutetium 173
NT2	curium 244	NT2	seaborgium 263	NT2	lutetium 174
NT2	curium 245	NT2	seaborgium 264	NT2	lutetium 176
NT2	curium 246	NT2	seaborgium 265	NT2	manganese 53
NT2	curium 248	NT2	seaborgium 266	NT2	mercury 194
NT2	curium 250	NT2	seaborgium 268	NT2	molybdenum 93
NT2	darmstadtium 272	NT2	seaborgium 270	NT2	neodymium 144
NT2	darmstadtium 279	NT2	seaborgium 271	NT2	neptunium 235
NT2	darmstadtium 281	NT2	seaborgium 272	NT2	neptunium 236
NT2	dubnium 255	NT2	seaborgium 273	NT2	neptunium 237
NT2	dubnium 256	NT2	thorium 230	NT2	nickel 59
NT2	dubnium 257	NT2	thorium 232	NT2	nickel 63
NT2	dubnium 258	NT2	uranium 232	NT2	niobium 91
NT2	dubnium 259	NT2	uranium 233	NT2	niobium 92
NT2	dubnium 260	NT2	uranium 234	NT2	niobium 93
NT2	dubnium 261	NT2	uranium 235	NT2	niobium 94
NT2	dubnium 262	NT2	uranium 236	NT2	osmium 186
NT2	dubnium 263	NT2	uranium 238	NT2	osmium 194
NT2	dubnium 267	NT1	years living radioisotopes	NT2	palladium 107
NT2	dubnium 268	NT2	actinium 227	NT2	platinum 190
NT2	einsteinium 253	NT2	aluminium 26	NT2	platinum 193
NT2	einsteinium 254	NT2	americium 241	NT2	plutonium 236
NT2	einsteinium 255	NT2	americium 242	NT2	plutonium 238
NT2	einsteinium 257	NT2	americium 243	NT2	plutonium 239
NT2	element 112 283	NT2	antimony 125	NT2	plutonium 240
NT2	element 114 286	NT2	argon 39	NT2	plutonium 241
NT2	fermium 242	NT2	argon 42	NT2	plutonium 242
NT2	fermium 244	NT2	barium 133	NT2	plutonium 244
		NT2	berkelium 247	NT2	plutonium 244
		NT2	beryllium 10	NT2	polonium 208

NT2 polonium 209  
 NT2 potassium 40  
 NT2 promethium 144  
 NT2 promethium 145  
 NT2 promethium 146  
 NT2 promethium 147  
 NT2 protactinium 231  
 NT2 radium 226  
 NT2 radium 228  
 NT2 rhenium 186  
 NT2 rhenium 187  
 NT2 rhodium 101  
 NT2 rubidium 87  
 NT2 ruthenium 106  
 NT2 samarium 146  
 NT2 samarium 147  
 NT2 samarium 148  
 NT2 samarium 151  
 NT2 selenium 79  
 NT2 silicon 32  
 NT2 silver 108  
 NT2 sodium 22  
 NT2 strontium 90  
 NT2 tantalum 179  
 NT2 technetium 97  
 NT2 technetium 98  
 NT2 technetium 99  
 NT2 tellurium 123  
 NT2 terbium 157  
 NT2 terbium 158  
 NT2 thallium 204  
 NT2 thorium 228  
 NT2 thorium 229  
 NT2 thorium 230  
 NT2 thorium 232  
 NT2 thulium 171  
 NT2 tin 121  
 NT2 tin 126  
 NT2 titanium 44  
 NT2 tritium  
 NT2 uranium 232  
 NT2 uranium 233  
 NT2 uranium 234  
 NT2 uranium 235  
 NT2 uranium 236  
 NT2 uranium 238  
 NT2 vanadium 50  
 NT2 zirconium 93

RT biological localization  
 RT carrier-free isotopes  
 RT carriers  
 RT natural occurrence  
 RT nuclear medicine  
 RT radiation sources  
 RT radioactive materials  
 RT radioactivity  
 RT radioimmunoassay  
 RT radioisotope batteries  
 RT radionuclide administration  
 RT radionuclide kinetics  
 RT radionuclide migration  
 RT radiopharmaceuticals

## RADIOLOGICAL PERSONNEL

\*BT1 medical personnel  
 RT biomedical radiography  
 RT industrial radiography

## radiological protection

USE radiation protection

## RADIOLOGICAL WARFARE

INIS: 1992-03-16; ETDE: 1987-07-09  
*Employment of agents or weapons to produce casualties by means of ionizing radiations, as distinguished from blast or thermal effects.*

BT1 warfare  
 RT enhanced radiation weapons

## RADIOLOGY

*For the use of radiant energy in medicine.*

\*BT1 nuclear medicine  
 NT1 biomedical radiography  
 NT2 fluoroscopy  
 NT2 ionographic imaging  
 NT2 osteodensitometry  
 NT2 renography  
 NT1 radiotherapy  
 NT2 afterloading  
 NT2 brachytherapy  
 NT2 ct-guided radiotherapy  
 NT2 neutron therapy  
 NT3 neutron capture therapy  
 NT2 radioimmunotherapy  
 RT diagnosis  
 RT diagnostic techniques

## RADIOLUMINESCENCE

\*BT1 luminescence  
 NT1 radiothermoluminescence  
 RT scintillations

## RADIOLYSIS

UF damage (radiation, chemical)  
 UF degradation (radioinduced)  
 UF radiation damage (chemical)  
 UF radiodecomposition  
 \*BT1 chemical radiation effects  
 \*BT1 decomposition  
 NT1 autoradiolysis  
 RT dissociation  
 RT g value  
 RT photolysis  
 RT radiation chemistry

## RADIOMETERS

\*BT1 radiation detectors  
 RT heterodyne receivers  
 RT pyranometers

## RADIOMETRIC ANALYSIS

*Quantitative analysis for a radioactive component with known specific activity, based on measurement of its absolute disintegration rate.*

\*BT1 quantitative chemical analysis  
 RT radiation scattering analysis  
 RT radioactivity  
 RT radiochemical analysis

## RADIOMETRIC GAGES

UF beta backscattering gages  
 BT1 measuring instruments  
 NT1 electron-capture detectors  
 RT densimeters  
 RT level indicators  
 RT moisture gages  
 RT nondestructive testing  
 RT radiometric sorting  
 RT sedimentometers  
 RT thickness gages

## RADIOMETRIC SORTING

BT1 sorting  
 RT ore processing  
 RT radiometric gages

## RADIOMETRIC SURVEYS

INIS: 1978-11-24; ETDE: 1978-02-14

\*BT1 geophysical surveys  
 RT aerial prospecting  
 RT exploration  
 RT gamma spectroscopy  
 RT radioactivity logging  
 RT uranium deposits

## RADIOMIMETIC DRUGS

BT1 drugs  
 NT1 neocarcinostatin  
 RT antimetabolic drugs

RT carcinogens  
 RT dna adducts  
 RT mutagens

## RADIONUCLIDE ADMINISTRATION

RT blood-plasma clearance  
 RT inhalation  
 RT injection  
 RT intake  
 RT intratracheal administration  
 RT oral administration  
 RT radioisotopes  
 RT radionuclide kinetics

## radionuclide concentration

USE radioactivity

## radionuclide distributions

USE radionuclide kinetics

## RADIONUCLIDE KINETICS

*For radionuclides in living organisms only; see also TRANSLOCATION.*

UF contamination (internal)  
 UF internal contamination  
 UF radioisotope kinetics  
 UF radionuclide distributions  
 UF radionuclide metabolism  
 UF radionuclide transfer (in organisms)  
 UF radionuclide turnover  
 UF transfer (in organism)  
 UF transfer (radionuclides in organisms)  
 UF transport (in organisms)  
 UF transport (radionuclides in biological systems)  
 UF transport (radionuclides in organisms)  
 UF turnover (radionuclides)  
 BT1 kinetics  
 RT biological half-life  
 RT biological hot spots  
 RT biological localization  
 RT biophysics  
 RT blood-plasma clearance  
 RT body burden  
 RT bone seekers  
 RT carriers  
 RT compartments  
 RT concentration ratio  
 RT critical organs  
 RT dose commitments  
 RT dynamic function studies  
 RT excretion  
 RT intake  
 RT internal irradiation  
 RT metabolism  
 RT nonuniform irradiation  
 RT personnel monitoring  
 RT radioactivity  
 RT radioisotopes  
 RT radionuclide administration  
 RT retention  
 RT retention functions  
 RT tissue distribution  
 RT tracer techniques  
 RT unsealed sources  
 RT uptake  
 RT whole-body counting

## radionuclide metabolism

USE radionuclide kinetics

## RADIONUCLIDE MIGRATION

*In environment.*

UF migration (radionuclide)  
 UF radioisotope migration  
 UF radionuclide transfer (in environment)  
 UF transfer (environmental radionuclides)  
 UF transfer (in environment)

*UF* transport (environmental radionuclides)  
 \*BT1 environmental transport  
*RT* backfilling  
*RT* biological availability  
*RT* clays  
*RT* diffusion  
*RT* ecosystems  
*RT* environment  
*RT* environmental exposure pathway  
*RT* fallout deposits  
*RT* food chains  
*RT* ground water  
*RT* irrigation  
*RT* natural analogue  
*RT* particle resuspension  
*RT* radioecological concentration  
*RT* radioecology  
*RT* radioisotopes  
*RT* soils  
*RT* tracer techniques  
*RT* transfrontier contamination  
*RT* translocation

### radionuclide transfer (in environment)

1993-11-09

USE radionuclide migration

### radionuclide transfer (in organisms)

1993-11-09

USE radionuclide kinetics

### radionuclide turnover

USE radionuclide kinetics

### radionuclides

USE radioisotopes

### radiopasteurization

(Prior to July 1985, this was a valid ETDE descriptor.)

USE radication

### RADIOPHARMACEUTICALS

1996-10-23

*UF* radioisotope-labelled drugs  
*SF* radioactive tracers  
 BT1 drugs  
 BT1 labelled compounds  
 \*BT1 radioactive materials  
*RT* biological localization  
*RT* brachytherapy  
*RT* bromosulphophthalein  
*RT* cpb  
*RT* diagnosis  
*RT* dual-isotope subtraction technique  
*RT* dynamic function studies  
*RT* ecat scanning  
*RT* methyl tyrosine  
*RT* mibg  
*RT* microspheres  
*RT* nuclear medicine  
*RT* radiocolloids  
*RT* radioisotopes  
*RT* scintiscanning  
*RT* tracer techniques

### radiophotoluminescent dosimeters

USE rpl dosimeters

### radiopolymerization

USE chemical radiation effects  
 USE polymerization

### RADIOPRESERVATION

1985-07-19

(Prior to August 1985 RADURIZATION was used.)

BT1 irradiation  
 BT1 preservation

NT1 radurization

*RT* food

*RT* food processing

*RT* storage life

### RADIOPROTECTIVE SUBSTANCES

1996-10-23

(Prior to August 1996 ROYAL JELLY was a valid ETDE descriptor.)

*UF* cytriphos  
*UF* dose reduction factor  
*UF* dose relative factor  
*UF* drf  
*UF* ethyrene  
*UF* ethyreneethyl phosphinate  
*UF* pentacyn  
*SF* royal jelly  
*SF* tumor necrosis factor  
 BT1 drugs  
 BT1 response modifying factors  
 NT1 beta-aminoethyl isothiouraea  
 NT1 cystamine  
 NT1 cystaphos  
 NT1 cysteamine  
 NT1 dimercaprol  
 NT1 dtpa  
 NT1 gammaphos  
 NT1 glutathione  
 NT1 hydroxytryptophan  
 NT1 kallikrein  
 NT1 mercaptoethylguanidine  
 NT1 mercaptopropylamine  
 NT1 mexamine  
 NT1 mpg  
 NT1 penicillamine  
 NT1 serotonin  
 NT2 bufotenine  
*RT* radiation protection  
*RT* radiosensitivity effects

### RADIORECEPTOR ASSAY

1980-05-14

*UF* radio-receptor assay  
*UF* rra  
 BT1 radioassay  
 \*BT1 tracer techniques  
*RT* bioassay  
*RT* cell membranes  
*RT* receptors

### radiorelease analysis

INIS: 1984-07-20; ETDE: 2002-04-26

USE radio-release analysis

### radioresistance

USE radiosensitivity

### RADIOSENSITIVITY

*UF* radioresistance  
 BT1 sensitivity  
*RT* biological radiation effects  
*RT* dose-response relationships  
*RT* radiation effects  
*RT* radiobiology  
*RT* radiosensitivity effects  
*RT* radiosensitizers  
*RT* response modifying factors  
*RT* survival curves

### RADIOSENSITIVITY EFFECTS

*RT* radioprotective substances  
*RT* radiosensitivity  
*RT* radiosensitizers

### RADIOSENSITIZERS

1996-10-22

BT1 drugs  
 BT1 response modifying factors  
 NT1 fudr  
 NT1 metronidazole  
 NT1 misonidazole

NT1 nem

NT1 triacetoneamine-n-oxyl

*RT* antimetabolic drugs

*RT* radiosensitivity

*RT* radiosensitivity effects

### RADIOSTERILIZATION

1985-07-19

(Prior to August 1985 STERILIZATION was used for the radiosterilization of non-food items.)

BT1 irradiation  
 BT1 sterilization  
 NT1 radappertization  
*RT* isomed  
*RT* radiodisinfestation  
*RT* sterile insect release  
*RT* sterile male technique

### radiosterilization (food)

ETDE: 1995-05-05

USE radappertization

### radiosurgery

USE radiotherapy  
 USE surgery

### RADIOTHERAPY

*UF* contact radiotherapy  
*UF* high energy radiotherapy  
*UF* plesiotherapy  
*UF* radiosurgery  
*UF* supervoltage radiotherapy  
*UF* teletherapy  
 \*BT1 radiology  
 \*BT1 therapy  
 NT1 afterloading  
 NT1 brachytherapy  
 NT1 ct-guided radiotherapy  
 NT1 neutron therapy  
 NT2 neutron capture therapy  
 NT1 radioimmunotherapy  
*RT* anticonvulsants  
*RT* collimators  
*RT* combined therapy  
*RT* cumulative radiation effects  
*RT* depth dose distributions  
*RT* fractionated irradiation  
*RT* irradiation  
*RT* isodose curves  
*RT* pbi  
*RT* phantoms  
*RT* radiation source implants

### RADIOTHERMOLUMINESCENCE

INIS: 1980-12-01; ETDE: 1981-01-09

\*BT1 radioluminescence  
 \*BT1 thermoluminescence

### radiothorium

USE thorium 228

### RADIOTOXINS

*RT* abscopal radiation effects  
*RT* toxins

### RADIOWAVE RADIATION

1996-06-28

*UF* decimeter wave radiation (1-3 dm)  
*UF* decimeter wave radiation (3-10dm)  
*UF* meter wave radiation  
*UF* shf radiation  
*UF* super high frequency radiation  
*UF* uhf radiation (01-100 ghz)  
*UF* uhf radiation (100-1000 mhz)  
*UF* uhf radiation (lower range)  
*UF* uhf radiation (upper range)  
*UF* ultrahigh frequency radiation (01-100 ghz)  
*UF* ultrahigh frequency radiation (100-1000 mhz)

*UF* ultrahigh frequency radiation (lower range)  
*UF* ultrahigh frequency radiation (upper range)  
*UF* very high frequency radiation  
*UF* vhf radiation  
 \*BT1 electromagnetic radiation  
 NT1 long wave radiation  
 NT1 medium wave radiation  
 NT1 radio noise  
   NT2 atmospherics  
   NT2 whistlers  
 NT1 radioecho  
 NT1 short wave radiation  
 NT1 solar radio bursts  
 NT1 solar radiowave radiation  
 RT cosmic radio sources  
 RT critical frequency  
 RT polar-cap absorption  
 RT radar  
 RT radio equipment  
 RT rf systems  
 RT signal distortion

**RADISHES**

\*BT1 magnoliopsida  
 \*BT1 vegetables  
 RT brassica

**RADIUM**

\*BT1 alkaline earth metals  
 RT natural radioactivity

**RADIUM 201**

2007-11-22

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes

**RADIUM 202**

2007-11-22

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes

**RADIUM 203**

2007-11-22

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 204**

2007-11-22

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 205**

INIS: 1988-04-15; ETDE: 1988-05-23

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 206**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 207**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei

\*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 208**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 209**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 210**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 211**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 212**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 213**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 214**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 215**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 216**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 217**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 218**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 microseconds living radioisotopes

\*BT1 radium isotopes

**RADIUM 219**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 220**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 221**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 222**

\*BT1 alpha decay radioisotopes  
 \*BT1 carbon 14 decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 seconds living radioisotopes

**RADIUM 223**

*UF* actinium x  
 \*BT1 alpha decay radioisotopes  
 \*BT1 carbon 14 decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes

**RADIUM 224**

*UF* thorium x  
 \*BT1 alpha decay radioisotopes  
 \*BT1 carbon 14 decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes

**RADIUM 225**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 radium isotopes

**RADIUM 226**

\*BT1 alpha decay radioisotopes  
 \*BT1 carbon 14 decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 radium isotopes  
 \*BT1 years living radioisotopes

**RADIUM 226 TARGET**

ETDE: 1976-07-09

BT1 targets

**RADIUM 227**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 radium isotopes

**RADIUM 228**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 radium isotopes  
 \*BT1 years living radioisotopes

**RADIUM 229**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radium isotopes

**RADIUM 230**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 radium isotopes

**RADIUM 231**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radium isotopes

**RADIUM 232**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radium isotopes

**RADIUM 233**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 234**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**radium a**

USE polonium 218

**radium additions**

2000-04-12

(Prior to August 1993 this was a valid ETDE descriptor.)

USE alloys

**radium b**

USE lead 214

**RADIUM BROMIDES**

- \*BT1 bromides
- \*BT1 radium compounds

**radium c**

USE bismuth 214

**radium c/**

USE polonium 214

**radium c//**

USE thallium 210

**RADIUM CARBONATES**

1996-07-08

(From June 1996 to November 2007 RADIUM COMPOUNDS + CARBONATES was used for this concept.)

- \*BT1 carbonates
- \*BT1 radium compounds

**RADIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 radium compounds

**RADIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**RADIUM COMPOUNDS**

1997-06-19

- BT1 alkaline earth metal compounds
- NT1 radium bromides
- NT1 radium carbonates
- NT1 radium chlorides
- NT1 radium halides
- NT2 radium fluorides
- NT1 radium nitrates
- NT1 radium nitrides
- NT1 radium oxides
- NT1 radium silicates
- NT1 radium sulfates

**radium d**

USE lead 210

**radium e**

USE bismuth 210

**radium e//**

USE thallium 206

**radium f**

USE polonium 210

**RADIUM FLUORIDES**

1996-07-08

(From June 1996 to February 2008 RADIUM COMPOUNDS + FLUORIDES was used for this concept.)

- \*BT1 fluorides
- \*BT1 radium halides

**radium g**

USE lead 206

**RADIUM HALIDES**

2008-02-07

- \*BT1 halides
- \*BT1 radium compounds
- NT1 radium fluorides

**RADIUM IONS**

\*BT1 ions

**RADIUM ISOTOPES**

1999-02-01

- \*BT1 alkaline earth isotopes
- NT1 radium 201
- NT1 radium 202
- NT1 radium 203
- NT1 radium 204
- NT1 radium 205
- NT1 radium 206
- NT1 radium 207
- NT1 radium 208
- NT1 radium 209
- NT1 radium 210
- NT1 radium 211
- NT1 radium 212
- NT1 radium 213
- NT1 radium 214
- NT1 radium 215
- NT1 radium 216
- NT1 radium 217
- NT1 radium 218
- NT1 radium 219
- NT1 radium 220
- NT1 radium 221
- NT1 radium 222
- NT1 radium 223
- NT1 radium 224
- NT1 radium 225
- NT1 radium 226
- NT1 radium 227
- NT1 radium 228
- NT1 radium 229
- NT1 radium 230
- NT1 radium 231
- NT1 radium 232

NT1 radium 233

NT1 radium 234

RT bone seekers

**RADIUM NITRATES**

INIS: 2000-04-12; ETDE: 1976-03-11

- \*BT1 nitrates
- \*BT1 radium compounds

**RADIUM NITRIDES**

INIS: 2000-04-12; ETDE: 1994-08-10

- \*BT1 nitrides
- \*BT1 radium compounds

**RADIUM OXIDES**

INIS: 2000-04-12; ETDE: 1976-03-11

- \*BT1 oxides
- \*BT1 radium compounds

**RADIUM SILICATES**

INIS: 2000-04-12; ETDE: 1976-03-11

(From January 1993 to November 2007 RADIUM COMPOUNDS + SILICATES was used for this concept.)

- \*BT1 radium compounds
- \*BT1 silicates

**RADIUM SULFATES**

- \*BT1 radium compounds
- \*BT1 sulfates

**RADON**

- \*BT1 rare gases
- RT natural radioactivity

**RADON 193**

2007-04-19

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 194**

2007-04-19

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 195**

2007-04-19

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 196**

INIS: 1992-09-23; ETDE: 1978-12-28

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes

**RADON 197**

INIS: 1995-10-03; ETDE: 1995-09-22

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 198**

2007-04-19

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes



**RADON 199***INIS: 1980-11-07; ETDE: 1978-09-11*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 200**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 201**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 202**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 203**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 204**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 205**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 206**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 207**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 208**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 209**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 210**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 211**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 212**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 214**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 215**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 216**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 217**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 218**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 219**

- \*BT1 alpha decay radioisotopes

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 220***UF thoron*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 221**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 222**

- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes

**RADON 223***1983-09-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 224**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 radon isotopes

**RADON 225**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 226**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 227***INIS: 1987-01-28; ETDE: 1987-02-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 228***INIS: 1989-07-19; ETDE: 1989-08-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON COMPOUNDS***1996-01-24*

- BT1 rare gas compounds
- NT1 radon fluorides
- NT1 radon oxides

**RADON FLUORIDES**

- \*BT1 fluorides
- \*BT1 radon compounds

**RADON IONS**

\*BT1 ions

**RADON ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 radon 193  
 NT1 radon 194  
 NT1 radon 195  
 NT1 radon 196  
 NT1 radon 197  
 NT1 radon 198  
 NT1 radon 199  
 NT1 radon 200  
 NT1 radon 201  
 NT1 radon 202  
 NT1 radon 203  
 NT1 radon 204  
 NT1 radon 205  
 NT1 radon 206  
 NT1 radon 207  
 NT1 radon 208  
 NT1 radon 209  
 NT1 radon 210  
 NT1 radon 211  
 NT1 radon 212  
 NT1 radon 213  
 NT1 radon 214  
 NT1 radon 215  
 NT1 radon 216  
 NT1 radon 217  
 NT1 radon 218  
 NT1 radon 219  
 NT1 radon 220  
 NT1 radon 221  
 NT1 radon 222  
 NT1 radon 223  
 NT1 radon 224  
 NT1 radon 225  
 NT1 radon 226  
 NT1 radon 227  
 NT1 radon 228

**radon monitors**

USE emanometers

**RADON OXIDES**\*BT1 oxides  
\*BT1 radon compounds**RADURIZATION**

Use of irradiation to prolong shelf-life of food.

UF food irradiation (radiopreservation)

\*BT1 food processing  
\*BT1 radiopreservation  
RT food  
RT ifip**RAFFINOSE**

\*BT1 oligosaccharides

**RAFT RIVER VALLEY**

INIS: 2000-04-12; ETDE: 1976-05-17

BT1 valleys  
RT idaho**rahyd process**

INIS: 2000-04-12; ETDE: 1979-11-07

Dry reprocessing of U and TH metallic fuels.

(Prior to June 1991 this was a valid ETDE descriptor.)

USE reprocessing

**RAIL TRANSPORT**

INIS: 1981-03-10; ETDE: 1976-06-07

\*BT1 land transport  
RT monorails  
RT railroad cars  
RT railways  
RT routing  
RT vehicles**RAILGUN ACCELERATORS**

INIS: 1981-09-18; ETDE: 1980-01-15

Type of macroparticle accelerator to be used in inertial confinement fusion.

BT1 accelerators  
RT impact fusion  
RT impact fusion drivers**RAILROAD CARS**

INIS: 1981-03-10; ETDE: 1978-08-07

BT1 vehicles  
RT locomotives  
RT rail transport  
RT railways  
RT trains**RAILWAYS**

1993-03-18

NT1 electric railways  
NT1 monorails  
RT levitated trains  
RT locomotives  
RT rail transport  
RT railroad cars  
RT rapid transit systems  
RT trains**RAIN**BT1 atmospheric precipitations  
NT1 acid rain  
RT droplets  
RT landslides  
RT monsoons  
RT natural disasters  
RT rain water  
RT snow  
RT storms  
RT washout**RAIN WATER**\*BT1 water  
NT1 throughfall  
RT atmospheric precipitations  
RT interception  
RT rain  
RT runoff**rainout**

USE washout

**RAJASTHAN-1 REACTOR**

Kota, Rajasthan, India.

UF raps-1 reactor  
\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors**RAJASTHAN-2 REACTOR**

Kota, Rajasthan, India.

UF raps-2 reactor  
\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors**RAJASTHAN-3 REACTOR**

INIS: 1993-02-09; ETDE: 1993-03-04

Kota, Rajasthan, India.

\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors**RAJASTHAN-4 REACTOR**

INIS: 1993-02-09; ETDE: 1993-03-04

Kota, Rajasthan, India.

\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors**RAJASTHAN-5 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd., Kota, Rajasthan, India.

\*BT1 phwr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors**RAJASTHAN-6 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd., Kota, Rajasthan, India.

\*BT1 phwr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors**RAKE-2 REACTOR**

ETDE: 1975-09-11

Central Institute for Nuclear Research Rossendorf, Dresden, Federal Republic of Germany.

UF rossendorf assembly for critical experiments

\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 water moderated reactors  
\*BT1 zero power reactors**raleigh-nsc research reactor-1**

1993-11-09

USE ncscr-1 reactor

**raleigh pulstar reactor**

USE pulstar-raleigh reactor

**RAMAN EFFECT**RT raman spectra  
RT raman spectroscopy  
RT scattering  
RT spectra  
RT ultraviolet radiation  
RT visible radiation**RAMAN SPECTRA**

INIS: 1976-02-05; ETDE: 1975-10-01

BT1 spectra  
RT laser spectroscopy  
RT raman effect  
RT raman spectroscopy**RAMAN SPECTROSCOPY**

INIS: 1986-04-04; ETDE: 1983-03-07

(Prior to March 1983 this concept was indexed to RAMAN SPECTRA in ETDE.)

UF cars (spectroscopy)

UF coherent anti-stokes raman spectroscopy

\*BT1 laser spectroscopy  
RT quantitative chemical analysis  
RT raman effect  
RT raman spectra**RAMJET ENGINES**

\*BT1 internal combustion engines

**RAMSAUER EFFECT**UF ramsauer-townsend effect  
RT elastic scattering**ramsauer-townsend effect**

USE ramsauer effect

**rana**

USE frogs

**RANA REACTOR**

National Nuclear Energy Committee, Rome, Italy.

UF casaccia rana reactor

UF ispra-2 rana reactor

\*BT1 enriched uranium reactors  
\*BT1 pool type reactors

\*BT1 research reactors

### RANCE POWER PLANT

INIS: 1992-08-26; ETDE: 1975-07-29

\*BT1 tidal power plants

### RANCHO SECO-1 REACTOR

Sacramento Municipal Utility District, Clay Station, California, USA. Shut down in 1989; decommissioned in 1995.

UF sacramento rancho seco-1 reactor

\*BT1 pwr type reactors

### RANCHO SECO-2 REACTOR

Clay Station, California, USA. Unit never ordered.

UF sacramento rancho seco-2 reactor

\*BT1 power reactors

### random number generators

INIS: 2000-04-12; ETDE: 1983-03-23

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE computer codes

SEE randomness

### RANDOM PHASE APPROXIMATION

\*BT1 approximations

RT boson expansion

RT ericson theory

RT statistics

### RANDOMNESS

1995-11-21

(From March 1983 till March 1997

RANDOMNESS was a valid ETDE descriptor.)

SF random number generators

RT attractors

RT ergodic divertors

RT monte carlo method

### RANGE

The range of particles and radiations in matter; not for the concepts covered by ENERGY RANGE or INTERACTION RANGE.

RT absorption

RT depth dose distributions

RT distance

RT energy losses

RT stopping power

### RANGE FINDERS

INIS: 1976-03-25; ETDE: 1975-11-28

BT1 measuring instruments

NT1 radar

NT2 acoustic radar

NT2 optical radar

NT1 sonar

### RANGELANDS

INIS: 2000-05-24; ETDE: 1978-09-13

Lands providing forage for domestic and wild animals, wildlife cover, recreation opportunities and vegetation for watershed protection.

UF grasslands

\*BT1 terrestrial ecosystems

RT domestic animals

RT grazing

RT management

RT pastures

RT plants

RT resource assessment

RT wild animals

### RANGER DEPOSIT

INIS: 1977-03-14; ETDE: 1977-06-03

\*BT1 uranium deposits

RT northern territory

RT uranium ores

### RANGER PROJECT

INIS: 2000-04-12; ETDE: 1987-05-06

\*BT1 atmospheric explosions

\*BT1 nuclear explosions

### RANKINE CYCLE

An ideal thermodynamic cycle consisting of heat addition at constant pressure, isentropic expansion, heat rejection at constant pressure, and isentropic compression; used as an ideal standard for the performance of heat-engine and heat-pump installations operating with a condensable vapor as the working fluid, such as a steam power plant. also known as steam cycle.

BT1 thermodynamic cycles

RT rankine cycle power systems

RT thermodynamics

### RANKINE CYCLE ENGINES

1992-11-04

\*BT1 heat engines

RT automobiles

RT rankine cycle power systems

RT steam

RT vapor generators

### RANKINE CYCLE POWER SYSTEMS

1992-03-11

\*BT1 power systems

RT rankine cycle

RT rankine cycle engines

### RANKINE-HUGONIOT EQUATIONS

1999-07-07

BT1 equations

RT shock waves

### RANQUILITE

2000-04-12

\*BT1 silicate minerals

\*BT1 uranium minerals

RT calcium silicates

RT uranium silicates

### RANSTAD DEPOSIT

INIS: 1980-12-01; ETDE: 1981-01-09

\*BT1 uranium deposits

RT sweden

RT uranium ores

### RANUNCULACEAE

UF buttercups

UF caraway

UF crowfoot

UF delphinium

UF nigella

\*BT1 magnoliopsida

### rapeseed

INIS: 2002-04-15; ETDE: 2002-03-26

USE brassica

### RAPID TRANSIT SYSTEMS

INIS: 2000-04-12; ETDE: 1975-11-28

BT1 transportation systems

RT electric railways

RT mass transit systems

RT railways

RT trains

RT transport

### rapidity

ETDE: 2002-05-01

USE particle rapidity

### raps-1 reactor

USE rajasthan-1 reactor

### raps-2 reactor

USE rajasthan-2 reactor

### RAPSODIE REACTOR

CEA/CEN Cadarache, st. Paul Lez Durance, France.

UF cadarache rapsodie reactor

UF fortissimo reactor

\*BT1 enriched uranium reactors

\*BT1 lmfr type reactors

\*BT1 plutonium reactors

\*BT1 sodium cooled reactors

\*BT1 test reactors

### RARE EARTH ADDITIONS

\*BT1 rare earth alloys

NT1 cerium additions

NT1 dysprosium additions

NT1 erbium additions

NT1 europium additions

NT1 gadolinium additions

NT1 holmium additions

NT1 lanthanum additions

NT2 alloy-co36cr22ni22w15fe3

NT3 haynes 188 alloy

NT1 lutetium additions

NT1 neodymium additions

NT1 praseodymium additions

NT1 promethium additions

NT1 samarium additions

NT1 terbium additions

NT1 thulium additions

NT1 ytterbium additions

### RARE EARTH ALLOYS

1996-07-23

(Prior to March 1997 PROMETHIUM ALLOYS was a valid ETDE descriptor.)

UF promethium alloys

BT1 alloys

NT1 cerium alloys

NT2 cerium additions

NT2 cerium base alloys

NT3 misch metal

NT1 dysprosium alloys

NT2 dysprosium additions

NT2 dysprosium base alloys

NT1 erbium alloys

NT2 erbium additions

NT2 erbium base alloys

NT1 europium alloys

NT2 europium additions

NT2 europium base alloys

NT1 gadolinium alloys

NT2 gadolinium additions

NT2 gadolinium base alloys

NT1 holmium alloys

NT2 holmium additions

NT2 holmium base alloys

NT1 lanthanum alloys

NT2 lanthanum additions

NT3 alloy-co36cr22ni22w15fe3

NT4 haynes 188 alloy

NT2 lanthanum base alloys

NT2 misch metal

NT1 lutetium alloys

NT2 lutetium additions

NT2 lutetium base alloys

NT1 magnesium alloy-ek

NT1 magnesium alloy-ez

NT1 neodymium alloys

NT2 neodymium additions

NT2 neodymium base alloys

NT1 praseodymium alloys

NT2 praseodymium base alloys

NT1 rare earth additions

NT2 cerium additions

NT2 dysprosium additions

NT2 erbium additions

NT2 europium additions

NT2 gadolinium additions

NT2 holmium additions

NT2 lanthanum additions  
 NT3 alloy-co36cr22ni22w15fe3  
 NT4 haynes 188 alloy  
 NT2 lutetium additions  
 NT2 neodymium additions  
 NT2 praseodymium additions  
 NT2 promethium additions  
 NT2 samarium additions  
 NT2 terbium additions  
 NT2 thulium additions  
 NT2 ytterbium additions  
 NT1 samarium alloys  
 NT2 samarium additions  
 NT2 samarium base alloys  
 NT1 terbium alloys  
 NT2 terbium additions  
 NT2 terbium base alloys  
 NT1 thulium alloys  
 NT2 thulium additions  
 NT2 thulium base alloys  
 NT1 ytterbium alloys  
 NT2 ytterbium base alloys  
 RT actinide alloys

**RARE EARTH COMPLEXES**

BT1 complexes  
 NT1 cerium complexes  
 NT1 dysprosium complexes  
 NT1 erbium complexes  
 NT1 europium complexes  
 NT1 gadolinium complexes  
 NT1 holmium complexes  
 NT1 lanthanum complexes  
 NT1 lutetium complexes  
 NT1 neodymium complexes  
 NT1 praseodymium complexes  
 NT1 promethium complexes  
 NT1 samarium complexes  
 NT1 terbium complexes  
 NT1 thulium complexes  
 NT1 ytterbium complexes

**RARE EARTH COMPOUNDS**

SF *gadolinite*

NT1 cerium compounds  
 NT2 cerium arsenides  
 NT2 cerium borides  
 NT2 cerium bromides  
 NT2 cerium carbides  
 NT2 cerium carbonates  
 NT2 cerium chlorides  
 NT2 cerium fluorides  
 NT2 cerium hydrides  
 NT2 cerium hydroxides  
 NT2 cerium iodides  
 NT2 cerium nitrates  
 NT2 cerium nitrides  
 NT2 cerium oxides  
 NT2 cerium perchlorates  
 NT2 cerium phosphates  
 NT2 cerium phosphides  
 NT2 cerium selenides  
 NT2 cerium silicates  
 NT2 cerium silicides  
 NT2 cerium sulfates  
 NT2 cerium sulfides  
 NT2 cerium tellurides  
 NT2 cerium tungstates  
 NT1 dysprosium compounds  
 NT2 dysprosium borides  
 NT2 dysprosium bromides  
 NT2 dysprosium carbides  
 NT2 dysprosium chlorides  
 NT2 dysprosium fluorides  
 NT2 dysprosium hydrides  
 NT2 dysprosium hydroxides  
 NT2 dysprosium iodides  
 NT2 dysprosium nitrates  
 NT2 dysprosium nitrides  
 NT2 dysprosium oxides

NT2 dysprosium perchlorates  
 NT2 dysprosium phosphates  
 NT2 dysprosium phosphides  
 NT2 dysprosium selenides  
 NT2 dysprosium silicates  
 NT2 dysprosium silicides  
 NT2 dysprosium sulfates  
 NT2 dysprosium sulfides  
 NT2 dysprosium tellurides  
 NT2 dysprosium tungstates  
 NT1 erbium compounds  
 NT2 erbium borides  
 NT2 erbium bromides  
 NT2 erbium carbides  
 NT2 erbium carbonates  
 NT2 erbium chlorides  
 NT2 erbium fluorides  
 NT2 erbium hydrides  
 NT2 erbium hydroxides  
 NT2 erbium iodides  
 NT2 erbium nitrates  
 NT2 erbium nitrides  
 NT2 erbium oxides  
 NT2 erbium perchlorates  
 NT2 erbium phosphates  
 NT2 erbium phosphides  
 NT2 erbium selenides  
 NT2 erbium silicides  
 NT2 erbium sulfates  
 NT2 erbium sulfides  
 NT2 erbium tellurides  
 NT2 erbium tungstates  
 NT1 europium compounds  
 NT2 europium arsenides  
 NT2 europium borides  
 NT2 europium bromides  
 NT2 europium carbides  
 NT2 europium carbonates  
 NT2 europium chlorides  
 NT2 europium fluorides  
 NT2 europium hydrides  
 NT2 europium hydroxides  
 NT2 europium iodides  
 NT2 europium nitrates  
 NT2 europium nitrides  
 NT2 europium oxides  
 NT2 europium perchlorates  
 NT2 europium phosphates  
 NT2 europium phosphides  
 NT2 europium selenides  
 NT2 europium silicates  
 NT2 europium silicides  
 NT2 europium sulfates  
 NT2 europium sulfides  
 NT2 europium tellurides  
 NT1 gadolinium compounds  
 NT2 gadolinium arsenides  
 NT2 gadolinium borides  
 NT2 gadolinium bromides  
 NT2 gadolinium carbides  
 NT2 gadolinium carbonates  
 NT2 gadolinium chlorides  
 NT2 gadolinium fluorides  
 NT2 gadolinium hydrides  
 NT2 gadolinium hydroxides  
 NT2 gadolinium iodides  
 NT2 gadolinium nitrates  
 NT2 gadolinium nitrides  
 NT2 gadolinium oxides  
 NT2 gadolinium perchlorates  
 NT2 gadolinium phosphates  
 NT2 gadolinium phosphides  
 NT2 gadolinium selenides  
 NT2 gadolinium silicides  
 NT2 gadolinium sulfates  
 NT2 gadolinium sulfides  
 NT2 gadolinium tellurides  
 NT2 gadolinium tungstates  
 NT1 holmium compounds

NT2 holmium borides  
 NT2 holmium bromides  
 NT2 holmium carbides  
 NT2 holmium carbonates  
 NT2 holmium chlorides  
 NT2 holmium fluorides  
 NT2 holmium hydrides  
 NT2 holmium hydroxides  
 NT2 holmium iodides  
 NT2 holmium nitrates  
 NT2 holmium nitrides  
 NT2 holmium oxides  
 NT2 holmium perchlorates  
 NT2 holmium phosphates  
 NT2 holmium phosphides  
 NT2 holmium selenides  
 NT2 holmium silicates  
 NT2 holmium silicides  
 NT2 holmium sulfates  
 NT2 holmium sulfides  
 NT2 holmium tellurides  
 NT1 lanthanum compounds  
 NT2 lanthanum borides  
 NT2 lanthanum bromides  
 NT2 lanthanum carbides  
 NT2 lanthanum carbonates  
 NT2 lanthanum chlorides  
 NT2 lanthanum fluorides  
 NT2 lanthanum hydrides  
 NT2 lanthanum hydroxides  
 NT2 lanthanum iodides  
 NT2 lanthanum nitrates  
 NT2 lanthanum nitrides  
 NT2 lanthanum oxides  
 NT2 lanthanum perchlorates  
 NT2 lanthanum phosphates  
 NT2 lanthanum phosphides  
 NT2 lanthanum selenides  
 NT2 lanthanum silicates  
 NT2 lanthanum silicides  
 NT2 lanthanum sulfates  
 NT2 lanthanum sulfides  
 NT2 lanthanum tellurides  
 NT2 lanthanum tungstates  
 NT2 plzt  
 NT1 lutetium compounds  
 NT2 lutetium borides  
 NT2 lutetium bromides  
 NT2 lutetium carbides  
 NT2 lutetium carbonates  
 NT2 lutetium chlorides  
 NT2 lutetium fluorides  
 NT2 lutetium hydrides  
 NT2 lutetium hydroxides  
 NT2 lutetium iodides  
 NT2 lutetium nitrates  
 NT2 lutetium oxides  
 NT2 lutetium perchlorates  
 NT2 lutetium phosphates  
 NT2 lutetium phosphides  
 NT2 lutetium selenides  
 NT2 lutetium silicates  
 NT2 lutetium silicides  
 NT2 lutetium sulfates  
 NT2 lutetium sulfides  
 NT2 lutetium tungstates  
 NT1 neodymium compounds  
 NT2 neodymium borides  
 NT2 neodymium bromides  
 NT2 neodymium carbides  
 NT2 neodymium carbonates  
 NT2 neodymium chlorides  
 NT2 neodymium fluorides  
 NT2 neodymium hydrides  
 NT2 neodymium hydroxides  
 NT2 neodymium iodides  
 NT2 neodymium nitrates  
 NT2 neodymium nitrides  
 NT2 neodymium oxides  
 NT2 neodymium perchlorates

NT2	neodymium phosphates	NT2	terbium perchlorates	NT1	cerium 131
NT2	neodymium silicates	NT2	terbium phosphates	NT1	cerium 132
NT2	neodymium silicides	NT2	terbium phosphides	NT1	cerium 133
NT2	neodymium sulfates	NT2	terbium selenides	NT1	cerium 134
NT2	neodymium sulfides	NT2	terbium silicides	NT1	cerium 135
NT2	neodymium tellurides	NT2	terbium sulfates	NT1	cerium 136
NT2	neodymium tungstates	NT2	terbium sulfides	NT1	cerium 137
NT1	praseodymium compounds	NT2	terbium tellurides	NT1	cerium 138
NT2	praseodymium arsenides	NT1	thulium compounds	NT1	cerium 139
NT2	praseodymium borides	NT2	thulium arsenides	NT1	cerium 140
NT2	praseodymium bromides	NT2	thulium borides	NT1	cerium 141
NT2	praseodymium carbides	NT2	thulium bromides	NT1	cerium 142
NT2	praseodymium carbonates	NT2	thulium carbides	NT1	cerium 143
NT2	praseodymium chlorides	NT2	thulium chlorides	NT1	cerium 144
NT2	praseodymium fluorides	NT2	thulium fluorides	NT1	cerium 145
NT2	praseodymium hydrides	NT2	thulium hydrides	NT1	cerium 146
NT2	praseodymium hydroxides	NT2	thulium hydroxides	NT1	cerium 147
NT2	praseodymium iodides	NT2	thulium iodides	NT1	cerium 148
NT2	praseodymium nitrates	NT2	thulium nitrates	NT1	cerium 149
NT2	praseodymium nitrides	NT2	thulium nitrides	NT1	cerium 150
NT2	praseodymium oxides	NT2	thulium oxides	NT1	cerium 151
NT2	praseodymium perchlorates	NT2	thulium perchlorates	NT1	cerium 152
NT2	praseodymium phosphates	NT2	thulium phosphates	NT1	cerium 153
NT2	praseodymium phosphides	NT2	thulium phosphides	NT1	cerium 154
NT2	praseodymium selenides	NT2	thulium selenides	NT1	cerium 155
NT2	praseodymium silicates	NT2	thulium silicates	NT1	cerium 156
NT2	praseodymium silicides	NT2	thulium silicides	NT1	cerium 157
NT2	praseodymium sulfates	NT2	thulium sulfates	NT1	dysprosium 138
NT2	praseodymium sulfides	NT2	thulium sulfides	NT1	dysprosium 139
NT2	praseodymium tellurides	NT2	thulium tellurides	NT1	dysprosium 140
NT2	praseodymium tungstates	NT1	ytterbium compounds	NT1	dysprosium 141
NT1	promethium compounds	NT2	ytterbium borides	NT1	dysprosium 142
NT2	promethium bromides	NT2	ytterbium bromides	NT1	dysprosium 143
NT2	promethium chlorides	NT2	ytterbium carbides	NT1	dysprosium 144
NT2	promethium fluorides	NT2	ytterbium carbonates	NT1	dysprosium 145
NT2	promethium halides	NT2	ytterbium chlorides	NT1	dysprosium 146
NT3	promethium iodides	NT2	ytterbium fluorides	NT1	dysprosium 147
NT2	promethium hydroxides	NT2	ytterbium hydrides	NT1	dysprosium 148
NT2	promethium nitrates	NT2	ytterbium hydroxides	NT1	dysprosium 149
NT2	promethium oxides	NT2	ytterbium iodides	NT1	dysprosium 150
NT2	promethium phosphates	NT2	ytterbium nitrates	NT1	dysprosium 151
NT1	samarium compounds	NT2	ytterbium nitrides	NT1	dysprosium 152
NT2	samarium arsenides	NT2	ytterbium oxides	NT1	dysprosium 153
NT2	samarium borides	NT2	ytterbium perchlorates	NT1	dysprosium 154
NT2	samarium bromides	NT2	ytterbium phosphates	NT1	dysprosium 155
NT2	samarium carbides	NT2	ytterbium phosphides	NT1	dysprosium 156
NT2	samarium carbonates	NT2	ytterbium selenides	NT1	dysprosium 157
NT2	samarium chlorides	NT2	ytterbium silicates	NT1	dysprosium 158
NT2	samarium fluorides	NT2	ytterbium silicides	NT1	dysprosium 159
NT2	samarium hydrides	NT2	ytterbium sulfates	NT1	dysprosium 160
NT2	samarium hydroxides	NT2	ytterbium sulfides	NT1	dysprosium 161
NT2	samarium iodides	NT2	ytterbium tellurides	NT1	dysprosium 162
NT2	samarium nitrates	NT2	ytterbium tungstates	NT1	dysprosium 163
NT2	samarium nitrides			NT1	dysprosium 164
NT2	samarium oxides			NT1	dysprosium 165
NT2	samarium perchlorates			NT1	dysprosium 166
NT2	samarium phosphates			NT1	dysprosium 167
NT2	samarium phosphides			NT1	dysprosium 168
NT2	samarium selenides			NT1	dysprosium 169
NT2	samarium silicates			NT1	dysprosium 170
NT2	samarium silicides			NT1	dysprosium 171
NT2	samarium sulfates			NT1	dysprosium 172
NT2	samarium sulfides			NT1	dysprosium 173
NT2	samarium tellurides			NT1	erbium 143
NT2	samarium tungstates			NT1	erbium 144
NT1	terbium compounds			NT1	erbium 145
NT2	terbium arsenides			NT1	erbium 147
NT2	terbium borides			NT1	erbium 148
NT2	terbium bromides			NT1	erbium 149
NT2	terbium carbides			NT1	erbium 150
NT2	terbium carbonates			NT1	erbium 151
NT2	terbium chlorides			NT1	erbium 152
NT2	terbium fluorides			NT1	erbium 153
NT2	terbium hydrides			NT1	erbium 154
NT2	terbium hydroxides			NT1	erbium 155
NT2	terbium iodides			NT1	erbium 156
NT2	terbium nitrates			NT1	erbium 157
NT2	terbium nitrides			NT1	erbium 158
NT2	terbium oxides			NT1	erbium 159

**rare earth elements**

ETDE: 2002-05-01

USE rare earths

**rare earth isotopes**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE rare earth nuclei

**RARE EARTH NUCLEI**

1997-01-30

UF rare earth isotopes

\*BT1 intermediate mass nuclei

NT1 cerium 119

NT1 cerium 120

NT1 cerium 121

NT1 cerium 122

NT1 cerium 123

NT1 cerium 124

NT1 cerium 125

NT1 cerium 126

NT1 cerium 127

NT1 cerium 128

NT1 cerium 129

NT1 cerium 130

NT1	erbium 160	NT1	gadolinium 157	NT1	lanthanum 147
NT1	erbium 161	NT1	gadolinium 158	NT1	lanthanum 148
NT1	erbium 162	NT1	gadolinium 159	NT1	lanthanum 149
NT1	erbium 163	NT1	gadolinium 160	NT1	lanthanum 150
NT1	erbium 164	NT1	gadolinium 161	NT1	lanthanum 151
NT1	erbium 165	NT1	gadolinium 162	NT1	lanthanum 152
NT1	erbium 166	NT1	gadolinium 163	NT1	lanthanum 153
NT1	erbium 167	NT1	gadolinium 164	NT1	lanthanum 154
NT1	erbium 168	NT1	gadolinium 165	NT1	lanthanum 155
NT1	erbium 169	NT1	gadolinium 166	NT1	lutetium 150
NT1	erbium 170	NT1	gadolinium 167	NT1	lutetium 151
NT1	erbium 171	NT1	gadolinium 168	NT1	lutetium 152
NT1	erbium 172	NT1	gadolinium 169	NT1	lutetium 153
NT1	erbium 173	NT1	holmium 140	NT1	lutetium 154
NT1	erbium 174	NT1	holmium 141	NT1	lutetium 155
NT1	erbium 175	NT1	holmium 142	NT1	lutetium 156
NT1	erbium 176	NT1	holmium 143	NT1	lutetium 157
NT1	erbium 177	NT1	holmium 144	NT1	lutetium 158
NT1	europium 130	NT1	holmium 145	NT1	lutetium 159
NT1	europium 131	NT1	holmium 146	NT1	lutetium 160
NT1	europium 132	NT1	holmium 147	NT1	lutetium 161
NT1	europium 133	NT1	holmium 148	NT1	lutetium 162
NT1	europium 134	NT1	holmium 149	NT1	lutetium 163
NT1	europium 135	NT1	holmium 150	NT1	lutetium 164
NT1	europium 136	NT1	holmium 151	NT1	lutetium 165
NT1	europium 137	NT1	holmium 152	NT1	lutetium 166
NT1	europium 138	NT1	holmium 153	NT1	lutetium 167
NT1	europium 139	NT1	holmium 154	NT1	lutetium 168
NT1	europium 140	NT1	holmium 155	NT1	lutetium 169
NT1	europium 141	NT1	holmium 156	NT1	lutetium 170
NT1	europium 142	NT1	holmium 157	NT1	lutetium 171
NT1	europium 143	NT1	holmium 158	NT1	lutetium 172
NT1	europium 144	NT1	holmium 159	NT1	lutetium 173
NT1	europium 145	NT1	holmium 160	NT1	lutetium 174
NT1	europium 146	NT1	holmium 161	NT1	lutetium 175
NT1	europium 147	NT1	holmium 162	NT1	lutetium 176
NT1	europium 148	NT1	holmium 163	NT1	lutetium 177
NT1	europium 149	NT1	holmium 164	NT1	lutetium 178
NT1	europium 150	NT1	holmium 165	NT1	lutetium 179
NT1	europium 151	NT1	holmium 166	NT1	lutetium 180
NT1	europium 152	NT1	holmium 167	NT1	lutetium 181
NT1	europium 153	NT1	holmium 168	NT1	lutetium 182
NT1	europium 154	NT1	holmium 169	NT1	lutetium 183
NT1	europium 155	NT1	holmium 170	NT1	lutetium 184
NT1	europium 156	NT1	holmium 171	NT1	lutetium 187
NT1	europium 157	NT1	holmium 172	NT1	neodymium 124
NT1	europium 158	NT1	holmium 173	NT1	neodymium 125
NT1	europium 159	NT1	holmium 174	NT1	neodymium 126
NT1	europium 160	NT1	holmium 175	NT1	neodymium 127
NT1	europium 161	NT1	lanthanum 117	NT1	neodymium 128
NT1	europium 162	NT1	lanthanum 118	NT1	neodymium 129
NT1	europium 163	NT1	lanthanum 119	NT1	neodymium 130
NT1	europium 164	NT1	lanthanum 120	NT1	neodymium 131
NT1	europium 165	NT1	lanthanum 121	NT1	neodymium 132
NT1	europium 166	NT1	lanthanum 122	NT1	neodymium 133
NT1	europium 167	NT1	lanthanum 123	NT1	neodymium 134
NT1	gadolinium 134	NT1	lanthanum 124	NT1	neodymium 135
NT1	gadolinium 135	NT1	lanthanum 125	NT1	neodymium 136
NT1	gadolinium 136	NT1	lanthanum 126	NT1	neodymium 137
NT1	gadolinium 137	NT1	lanthanum 127	NT1	neodymium 138
NT1	gadolinium 138	NT1	lanthanum 128	NT1	neodymium 139
NT1	gadolinium 139	NT1	lanthanum 129	NT1	neodymium 140
NT1	gadolinium 140	NT1	lanthanum 130	NT1	neodymium 141
NT1	gadolinium 141	NT1	lanthanum 131	NT1	neodymium 142
NT1	gadolinium 142	NT1	lanthanum 132	NT1	neodymium 143
NT1	gadolinium 143	NT1	lanthanum 133	NT1	neodymium 144
NT1	gadolinium 144	NT1	lanthanum 134	NT1	neodymium 145
NT1	gadolinium 145	NT1	lanthanum 135	NT1	neodymium 146
NT1	gadolinium 146	NT1	lanthanum 136	NT1	neodymium 147
NT1	gadolinium 147	NT1	lanthanum 137	NT1	neodymium 148
NT1	gadolinium 148	NT1	lanthanum 138	NT1	neodymium 149
NT1	gadolinium 149	NT1	lanthanum 139	NT1	neodymium 150
NT1	gadolinium 150	NT1	lanthanum 140	NT1	neodymium 151
NT1	gadolinium 151	NT1	lanthanum 141	NT1	neodymium 152
NT1	gadolinium 152	NT1	lanthanum 142	NT1	neodymium 153
NT1	gadolinium 153	NT1	lanthanum 143	NT1	neodymium 154
NT1	gadolinium 154	NT1	lanthanum 144	NT1	neodymium 155
NT1	gadolinium 155	NT1	lanthanum 145	NT1	neodymium 156
NT1	gadolinium 156	NT1	lanthanum 146	NT1	neodymium 157

NT1 neodymium 158  
 NT1 neodymium 159  
 NT1 neodymium 160  
 NT1 neodymium 161  
 NT1 praseodymium 121  
 NT1 praseodymium 122  
 NT1 praseodymium 123  
 NT1 praseodymium 124  
 NT1 praseodymium 125  
 NT1 praseodymium 126  
 NT1 praseodymium 127  
 NT1 praseodymium 128  
 NT1 praseodymium 129  
 NT1 praseodymium 130  
 NT1 praseodymium 131  
 NT1 praseodymium 132  
 NT1 praseodymium 133  
 NT1 praseodymium 134  
 NT1 praseodymium 135  
 NT1 praseodymium 136  
 NT1 praseodymium 137  
 NT1 praseodymium 138  
 NT1 praseodymium 139  
 NT1 praseodymium 140  
 NT1 praseodymium 141  
 NT1 praseodymium 142  
 NT1 praseodymium 143  
 NT1 praseodymium 144  
 NT1 praseodymium 145  
 NT1 praseodymium 146  
 NT1 praseodymium 147  
 NT1 praseodymium 148  
 NT1 praseodymium 149  
 NT1 praseodymium 150  
 NT1 praseodymium 151  
 NT1 praseodymium 152  
 NT1 praseodymium 153  
 NT1 praseodymium 154  
 NT1 praseodymium 155  
 NT1 praseodymium 156  
 NT1 praseodymium 157  
 NT1 praseodymium 158  
 NT1 praseodymium 159  
 NT1 promethium 126  
 NT1 promethium 127  
 NT1 promethium 128  
 NT1 promethium 129  
 NT1 promethium 130  
 NT1 promethium 131  
 NT1 promethium 132  
 NT1 promethium 133  
 NT1 promethium 134  
 NT1 promethium 135  
 NT1 promethium 136  
 NT1 promethium 137  
 NT1 promethium 138  
 NT1 promethium 139  
 NT1 promethium 140  
 NT1 promethium 141  
 NT1 promethium 142  
 NT1 promethium 143  
 NT1 promethium 144  
 NT1 promethium 145  
 NT1 promethium 146  
 NT1 promethium 147  
 NT1 promethium 148  
 NT1 promethium 149  
 NT1 promethium 150  
 NT1 promethium 151  
 NT1 promethium 152  
 NT1 promethium 153  
 NT1 promethium 154  
 NT1 promethium 155  
 NT1 promethium 156  
 NT1 promethium 157  
 NT1 promethium 158  
 NT1 promethium 159  
 NT1 promethium 160  
 NT1 promethium 161

NT1 promethium 162  
 NT1 promethium 163  
 NT1 samarium 128  
 NT1 samarium 129  
 NT1 samarium 130  
 NT1 samarium 131  
 NT1 samarium 132  
 NT1 samarium 133  
 NT1 samarium 134  
 NT1 samarium 135  
 NT1 samarium 136  
 NT1 samarium 137  
 NT1 samarium 138  
 NT1 samarium 139  
 NT1 samarium 140  
 NT1 samarium 141  
 NT1 samarium 142  
 NT1 samarium 143  
 NT1 samarium 144  
 NT1 samarium 145  
 NT1 samarium 146  
 NT1 samarium 147  
 NT1 samarium 148  
 NT1 samarium 149  
 NT1 samarium 150  
 NT1 samarium 151  
 NT1 samarium 152  
 NT1 samarium 153  
 NT1 samarium 154  
 NT1 samarium 155  
 NT1 samarium 156  
 NT1 samarium 157  
 NT1 samarium 158  
 NT1 samarium 159  
 NT1 samarium 160  
 NT1 samarium 161  
 NT1 samarium 162  
 NT1 samarium 163  
 NT1 samarium 164  
 NT1 samarium 165  
 NT1 terbium 135  
 NT1 terbium 136  
 NT1 terbium 137  
 NT1 terbium 138  
 NT1 terbium 139  
 NT1 terbium 140  
 NT1 terbium 141  
 NT1 terbium 142  
 NT1 terbium 143  
 NT1 terbium 144  
 NT1 terbium 145  
 NT1 terbium 146  
 NT1 terbium 147  
 NT1 terbium 148  
 NT1 terbium 149  
 NT1 terbium 150  
 NT1 terbium 151  
 NT1 terbium 152  
 NT1 terbium 153  
 NT1 terbium 154  
 NT1 terbium 155  
 NT1 terbium 156  
 NT1 terbium 157  
 NT1 terbium 158  
 NT1 terbium 159  
 NT1 terbium 160  
 NT1 terbium 161  
 NT1 terbium 162  
 NT1 terbium 163  
 NT1 terbium 164  
 NT1 terbium 165  
 NT1 terbium 166  
 NT1 terbium 167  
 NT1 terbium 168  
 NT1 terbium 169  
 NT1 terbium 170  
 NT1 terbium 171  
 NT1 thulium 144  
 NT1 thulium 145

NT1 thulium 146  
 NT1 thulium 147  
 NT1 thulium 148  
 NT1 thulium 149  
 NT1 thulium 150  
 NT1 thulium 151  
 NT1 thulium 152  
 NT1 thulium 153  
 NT1 thulium 154  
 NT1 thulium 155  
 NT1 thulium 156  
 NT1 thulium 157  
 NT1 thulium 158  
 NT1 thulium 159  
 NT1 thulium 160  
 NT1 thulium 161  
 NT1 thulium 162  
 NT1 thulium 163  
 NT1 thulium 164  
 NT1 thulium 165  
 NT1 thulium 166  
 NT1 thulium 167  
 NT1 thulium 168  
 NT1 thulium 169  
 NT1 thulium 170  
 NT1 thulium 171  
 NT1 thulium 172  
 NT1 thulium 173  
 NT1 thulium 174  
 NT1 thulium 175  
 NT1 thulium 176  
 NT1 thulium 177  
 NT1 thulium 178  
 NT1 thulium 179  
 NT1 ytterbium 148  
 NT1 ytterbium 149  
 NT1 ytterbium 150  
 NT1 ytterbium 151  
 NT1 ytterbium 152  
 NT1 ytterbium 153  
 NT1 ytterbium 154  
 NT1 ytterbium 155  
 NT1 ytterbium 156  
 NT1 ytterbium 157  
 NT1 ytterbium 158  
 NT1 ytterbium 159  
 NT1 ytterbium 160  
 NT1 ytterbium 161  
 NT1 ytterbium 162  
 NT1 ytterbium 163  
 NT1 ytterbium 164  
 NT1 ytterbium 165  
 NT1 ytterbium 166  
 NT1 ytterbium 167  
 NT1 ytterbium 168  
 NT1 ytterbium 169  
 NT1 ytterbium 170  
 NT1 ytterbium 171  
 NT1 ytterbium 172  
 NT1 ytterbium 173  
 NT1 ytterbium 174  
 NT1 ytterbium 175  
 NT1 ytterbium 176  
 NT1 ytterbium 177  
 NT1 ytterbium 178  
 NT1 ytterbium 179  
 NT1 ytterbium 180  
 NT1 ytterbium 181

#### RARE EARTHS

UF *lanthanides*  
 UF *rare earth elements*  
 \*BT1 metals  
 NT1 cerium  
   NT2 cerium-alpha  
   NT2 cerium-beta  
   NT2 cerium-gamma  
 NT1 dysprosium  
 NT1 erbium

NT1 europium  
 NT1 gadolinium  
 NT1 holmium  
 NT1 lanthanum  
 NT1 lutetium  
 NT1 neodymium  
 NT1 praseodymium  
 NT1 promethium  
 NT1 samarium  
 NT1 terbium  
 NT1 thulium  
 NT1 ytterbium  
 RT thucholite

**RARE GAS COMPOUNDS**

NT1 argon compounds  
 NT2 argon chlorides  
 NT2 argon fluorides  
 NT2 argon hydrides  
 NT2 argon iodides  
 NT2 argon nitrides  
 NT2 argon oxides  
 NT1 helium compounds  
 NT2 helium chlorides  
 NT2 helium hydrides  
 NT2 helium hydroxides  
 NT2 helium oxides  
 NT2 helium tritides  
 NT1 krypton compounds  
 NT2 krypton bromides  
 NT2 krypton chlorides  
 NT2 krypton fluorides  
 NT2 krypton hydrides  
 NT2 krypton oxides  
 NT1 neon compounds  
 NT2 neon chlorides  
 NT2 neon fluorides  
 NT2 neon hydrides  
 NT2 neon iodides  
 NT2 neon oxides  
 NT1 radon compounds  
 NT2 radon fluorides  
 NT2 radon oxides  
 NT1 xenon compounds  
 NT2 xenon bromides  
 NT2 xenon chlorides  
 NT2 xenon fluorides  
 NT2 xenon hydrides  
 NT2 xenon iodides  
 NT2 xenon oxides

**RARE GASES**

UF noble gases  
 \*BT1 gases  
 \*BT1 nonmetals  
 NT1 argon  
 NT1 helium  
 NT1 krypton  
 NT1 neon  
 NT1 radon  
 NT1 xenon  
 RT clathrates  
 RT emanation method  
 RT emanation thermal analysis  
 RT gas scintillation detectors  
 RT inert atmosphere

**RAREFIED GASES**

\*BT1 gases

**RARITA-SCHWINGER THEORY**

RT quantum mechanics  
 RT wave equations

**RAROTONGA TREATY**

INIS: 1992-01-07; ETDE: 1992-02-10  
 BT1 treaties  
 RT arms control  
 RT international agreements  
 RT nuclear weapons

**ras al khaima**

INIS: 1992-05-07; ETDE: 1976-08-05  
 USE united arab emirates

**raschig rings**

USE column packing

**RASPBERRIES**

INIS: 1976-06-23; ETDE: 1976-08-24  
 \*BT1 berries  
 RT rosaceae

**rat kangaroos**

INIS: 2000-04-12; ETDE: 1981-06-15  
 USE marsupials

**RATCHETING**

INIS: 1984-08-24; ETDE: 1976-07-07  
*Progressive distortion resulting from or enhanced by cyclic loading.*  
 BT1 deformation  
 RT creep  
 RT dynamic loads  
 RT mechanical structures  
 RT strains  
 RT stresses

**rate structure**

INIS: 2000-04-12; ETDE: 1978-04-06  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE prices

**ratemeters (counting)**

USE counting ratemeters

**ratemeters (dose)**

USE dose ratemeters

**ratemeters (exposure)**

USE exposure ratemeters

**rational surfaces**

INIS: 1991-03-22; ETDE: 1991-04-09  
 USE mode rational surfaces

**rationing**

INIS: 1985-12-10; ETDE: 1978-03-03  
 USE allocations

**RATS**

\*BT1 rodents

**RAUVITE**

2000-04-12  
 \*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT calcium oxides  
 RT uranium oxides  
 RT vanadium oxides

**RAW MATERIALS**

INIS: 1992-03-11; ETDE: 1978-06-14  
*Materials available, suitable, or required for manufacture, development, training, or some other finishing process, but not yet so used.*  
 BT1 materials  
 NT1 chemical feedstocks  
 RT resources

**rawalpindi research reactor**

USE parr-1 reactor

**RAYLEIGH NUMBER**

2007-01-08  
 BT1 dimensionless numbers  
 RT forced convection  
 RT natural convection

**rayleigh-ritz method**

USE ritz method

**RAYLEIGH SCATTERING**

\*BT1 coherent scattering

**RAYLEIGH-SCHROEDINGER FORMULA**

RT perturbation theory

**RAYLEIGH-TAYLOR INSTABILITY**

BT1 instability  
 RT fluid flow  
 RT hydrodynamics  
 RT plasma macroinstabilities

**RAYLEIGH WAVES**

1999-09-17  
 RT earthquakes  
 RT lattice vibrations  
 RT seismic detection  
 RT seismic surface waves  
 RT seismic waves  
 RT underground explosions

**RAYON**

\*BT1 polysaccharides  
 RT cellulose  
 RT fibers  
 RT textiles

**RAZDAN COMPUTERS**

BT1 computers

**RB-1 REACTOR**

Montecuccolino Nuclear Engineering Lab., Univ. of Bologna, Bologna, Italy.  
 UF montecuccolino rb-1 reactor  
 UF reattore bologna-1  
 \*BT1 enriched uranium reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

**RB-2 REACTOR**

UF montecuccolino rb-2 reactor  
 UF reattore bologna-2  
 \*BT1 argonaut type reactors  
 \*BT1 thermal reactors

**RB-3 REACTOR**

UF montecuccolino rb-3 reactor  
 UF reattore bologna-3  
 \*BT1 heavy water moderated reactors  
 \*BT1 tank type reactors  
 \*BT1 zero power reactors

**RBE**

UF relative biological effectiveness  
 RT biological radiation effects  
 RT let  
 RT oxygen enhancement ratio  
 RT quality factor  
 RT radiation effects  
 RT radiation quality

**rbmk-1000 reactor**

INIS: 1984-08-23; ETDE: 1984-09-20  
 USE leningrad-1 reactor

**rbmk-1500 reactor**

INIS: 1996-02-09; ETDE: 1984-09-20  
 USE iginalina-1 reactor

**rbmk type reactors**

INIS: 1988-10-10; ETDE: 1988-11-01  
*High-power channel-cooled graphite-moderated reactor type.*  
 USE lwgr type reactors

**rbs**

2002-11-25  
 USE rutherford backscattering spectroscopy



**rc-1 reactor**

USE triga-2-rome reactor

**rc-4 reactor casaccia**

USE ritmo reactor

**RCIC SYSTEMS**

1993-04-27

UF reactor core isolation cooling

\*BT1 reactor cooling systems

**RCN**

Reactor Centrum Nederland; name changed on 1 August 1976 to Energieonderzoek Centrum Nederland, and documents written after that date should be indexed to ECN.

UF reactor centrum nederland (petten)

\*BT1 ecn

**RCNP CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24

Research Center for Nuclear Physics, Osaka University.

UF research center nuclear physics cyclotron

\*BT1 heavy ion accelerators

\*BT1 isochronous cyclotrons

**rdf**

INIS: 2000-04-12; ETDE: 1976-11-02

USE refuse derived fuels

**re-entry**

USE reentry

**reacteur jules horowitz**

2005-02-10

USE jules horowitz reactor

**REACTION HEAT**

UF heat of reaction

\*BT1 enthalpy

NT1 combustion heat

NT1 dissociation heat

NT1 formation heat

RT thermochemical heat storage

RT wetting heat

**REACTION INTERMEDIATES**

INIS: 1983-03-15; ETDE: 1978-10-23

SF intermediates (reaction)

SF transient species

RT carbenes

RT carbynes

RT chemical reaction kinetics

RT chemical reactions

RT photochemistry

RT radiation chemistry

RT radicals

**REACTION KINETICS**

UF activity coefficient

UF reaction mechanisms

UF reaction rate

BT1 kinetics

NT1 biochemical reaction kinetics

NT2 cpb

NT1 chemical reaction kinetics

NT2 combustion kinetics

NT1 nuclear reaction kinetics

RT activation energy

RT arrhenius equation

RT dissociation

RT equilibrium

**reaction mechanisms**

USE reaction kinetics

**reaction product transport**

INIS: 1995-05-09; ETDE: 2002-05-01

(Until May 1995 this was a valid descriptor.)

USE reaction product transport systems

**REACTION PRODUCT TRANSPORT SYSTEMS**

1995-05-10

(Until May 1995 this concept was indexed to REACTION PRODUCT TRANSPORT.)

UF helium jet method

UF reaction product transport

UF transport (reaction product)

NT1 rabbit tubes

RT accelerator facilities

RT nuclear reactions

RT pneumatic transport

RT reactor experimental facilities

**reaction rate**

USE reaction kinetics

**reactivation**

INIS: 2000-04-12; ETDE: 1980-11-25

SEE regeneration

**REACTIVITY**

RT inhour equation

RT pile oscillation techniques

RT pile replacement techniques

RT poisoning

RT reactivity coefficients

RT reactivity insertions

RT reactivity meters

RT reactivity units

RT reactivity worths

RT reactor kinetics

RT rod drop method

**reactivity (chemical)**

INIS: 2000-04-12; ETDE: 1979-06-06

USE activation energy

**REACTIVITY COEFFICIENTS**

NT1 danger coefficient

NT1 doppler coefficient

NT1 power coefficient

NT1 pressure coefficient

NT1 temperature coefficient

NT1 void coefficient

RT reactivity

RT reactivity insertions

RT reactor kinetics

**REACTIVITY INSERTIONS**

NT1 rod drop accidents

RT pulsed reactors

RT reactivity

RT reactivity coefficients

RT reactivity units

RT reactivity worths

RT reactor kinetics

RT rod ejection accidents

**REACTIVITY METERS**

\*BT1 meters

RT reactivity

**REACTIVITY UNITS**

BT1 units

NT1 dollars

NT1 inhours

RT reactivity

RT reactivity insertions

**REACTIVITY WORTHS**

RT reactivity

RT reactivity insertions

**REACTOR ACCIDENT SIMULATION**

2006-06-27

BT1 simulation

RT hypothetical accidents

RT reactor accidents

RT reactor safety

**REACTOR ACCIDENTS**

1997-04-29

Includes abnormal conditions of other than major significance sometimes referred to as incidents, events, etc.: for fission reactors only.

SF nuclear accidents

SF ria (reactor accidents)

BT1 accidents

NT1 design basis accidents

NT2 atws

NT2 maximum credible accident

NT1 excursions

NT1 loss of coolant

NT1 loss of flow

NT1 meltdown

NT1 power-cooling-mismatch accidents

NT1 reactor core disruption

NT1 rod drop accidents

NT1 rod ejection accidents

NT1 transient overpower accidents

RT burnout

RT canare

RT cenna

RT corium

RT emergency plans

RT fuel-coolant interactions

RT fuel element failure

RT international nuclear event scale

RT missile protection

RT molten metal-water reactions

RT pressure suppression

RT reactor accident simulation

RT reactor operation

RT reactor safety

RT source terms

**reactor argentin-0**

USE ra-0 reactor

**reactor argentin-1**

USE ra-1 reactor

**reactor argentin-2**

USE ra-2 reactor

**reactor argentin-3**

USE ra-3 reactor

**reactor argentin-4**

INIS: 2002-08-13; ETDE: 2002-06-16

USE ra-4 reactor

**reactor argentin-5**

INIS: 1984-06-21; ETDE: 2002-05-01

USE ra-5 reactor

**reactor argentin-8**

2002-11-20

USE ra-8 reactor

**reactor argentin ra-6**

2001-03-01

USE ra-6 reactor

**REACTOR CELLS**

UF cells (reactor)

RT reactor lattices

**reactor centrum nederland (petten)**

ETDE: 2002-05-01

USE rcn

**REACTOR CHANNELS**

Passages through reactors.

UF channels (reactor)

BT1 reactor components

NT1 beam holes

NT1 experimental channels

NT1 fuel channels

RT neutron guides

**REACTOR CHARGING MACHINES**

- UF *charging machines (fission reactor)*
- UF *fueling machines (fission reactors)*
- UF *loading machines (fission reactor)*
- BT1 reactor components
- RT reactor fueling
- RT remote handling

**reactor chemistry**

- ETDE: 2002-05-01
- USE radiochemistry

**REACTOR COMMISSIONING**

- 1996-04-29
- For fission reactors only.*
- UF *commissioning (reactor)*
- BT1 commissioning
- RT national control
- RT reactor decommissioning

**REACTOR COMPONENTS**

- For fission reactors only.*
- UF *reactor internals*
- NT1 breeding blankets
- NT1 control elements
  - NT2 regulating rods
  - NT2 scram rods
  - NT2 shim rods
- NT1 control rod drives
- NT1 core catchers
- NT1 fuel elements
  - NT2 annular fuel elements
  - NT2 fuel pins
  - NT2 fuel plates
  - NT2 fuel rods
    - NT3 hollow fuel rods
  - NT2 fuel wires
  - NT2 spent fuel elements
  - NT2 thermionic fuel elements
- NT1 reactor channels
  - NT2 beam holes
  - NT2 experimental channels
  - NT2 fuel channels
- NT1 reactor charging machines
- NT1 reactor cooling systems
  - NT2 direct cycle cooling systems
  - NT2 dual cycle cooling systems
  - NT2 integrated cooling systems
  - NT2 primary coolant circuits
    - NT3 coolant cleanup systems
  - NT2 rcic systems
  - NT2 rhr systems
  - NT2 secondary coolant circuits
  - NT2 shrouds
- NT1 reactor cores
  - NT2 coupled reactor cores
  - NT2 heterogeneous reactor cores
- NT1 reactor experimental facilities
  - NT2 beam holes
  - NT2 experimental channels
  - NT2 in pile loops
  - NT2 rabbit tubes
  - NT2 tristan separator
- NT1 reactor safety fuses
- RT alarm systems
- RT condensation chambers
- RT containers
- RT containment
- RT control equipment
- RT cooling towers
- RT electrical equipment
- RT electronic equipment
- RT fins
- RT fluid-structure interactions
- RT heat exchangers
- RT jackets
- RT leak detectors
- RT pumps
- RT reactor materials
- RT shielding materials

- RT shields
- RT sleeves
- RT spacers
- RT vanes

**reactor control rods**

- USE control elements

**REACTOR CONTROL SYSTEMS**

*The processes and operations ensuring the control and safe running of a nuclear fission reactor.*

- UF *monitors (reactor)*
- BT1 control systems
- RT automation
- RT boiling detection
- RT burnable poisons
- RT configuration control
- RT control elements
- RT control rod drives
- RT control rooms
- RT fluid poison control
- RT interlocks
- RT neutron absorbers
- RT neutron detectors
- RT neutron monitors
- RT on-line control systems
- RT process computers
- RT reactor instrumentation
- RT reactor monitoring systems
- RT reactor safety fuses
- RT thermocouples

**reactor control theory**

- 2000-04-12
- USE reactor kinetics

**REACTOR COOLING SYSTEMS**

- For fission reactors only.*
- UF *cooling systems (fission reactor)*
- \*BT1 cooling systems
- BT1 reactor components
- NT1 direct cycle cooling systems
- NT1 dual cycle cooling systems
- NT1 integrated cooling systems
- NT1 primary coolant circuits
  - NT2 coolant cleanup systems
- NT1 rcic systems
- NT1 rhr systems
- NT1 secondary coolant circuits
- NT1 shrouds
- RT auxiliary water systems
- RT blowers
- RT boilers
- RT bypasses
- RT closed-cycle cooling systems
- RT compressors
- RT condensation chambers
- RT condenser cooling systems
- RT coolants
- RT cooling
- RT demineralizers
- RT economizers
- RT feedwater
- RT feedwater heaters
- RT fluid flow
- RT fluid-structure interactions
- RT heat exchangers
- RT heat transfer
- RT hot channel
- RT hot spots
- RT ice condensers
- RT isolation condensers
- RT loss of coolant
- RT open-cycle cooling systems
- RT pressure tubes
- RT pressurizers
- RT pumps
- RT recombiners
- RT restraints

- RT steam condensers
- RT steam generators
- RT steam jet ejectors
- RT steam lines
- RT steam separators
- RT steam systems
- RT steam turbines
- RT superheaters
- RT tubes
- RT valves
- RT vapor generators
- RT water chemistry
- RT water supply

**reactor cooling systems (fusion)**

- INIS: 1993-11-09; ETDE: 2002-05-01
- USE thermonuclear reactor cooling systems

**REACTOR CORE DISRUPTION**

- UF *hcda*
- \*BT1 reactor accidents
- RT reactor cores

**reactor core isolation cooling**

- 1993-04-27
- USE rcic systems

**REACTOR CORE RESTRAINTS**

- \*BT1 reactor protection systems
- BT1 restraints
- RT reactor cores
- RT reactor safety
- RT supports

**REACTOR CORES**

- UF *cores (reactor)*
- BT1 reactor components
- NT1 coupled reactor cores
- NT1 heterogeneous reactor cores
- RT control elements
- RT core catchers
- RT corium
- RT fluid-structure interactions
- RT fuel assemblies
- RT fuel elements
- RT fuel management
- RT in core instruments
- RT moderators
- RT power density
- RT power distribution
- RT reactor core disruption
- RT reactor core restraints
- RT reactor lattices

**REACTOR DECOMMISSIONING**

- For fission reactors only.*
- BT1 decommissioning
- RT national control
- RT reactor commissioning

**REACTOR DISMANTLING**

- For fission reactors only.*
- UF *dismantling (fission reactor)*
- UF *dismantling (reactor)*
- BT1 demolition
- RT fuel assembly dismantling
- RT national control

**REACTOR EXPERIMENTAL FACILITIES**

- 1995-05-10
- UF *experimental facilities (reactor)*
- BT1 reactor components
- NT1 beam holes
- NT1 experimental channels
- NT1 in pile loops
- NT1 rabbit tubes
- NT1 tristan separator
- RT reaction product transport systems

**reactor fuel elements**

USE fuel elements

**REACTOR FUELING***For fission reactors only.*

UF charging (fission reactor)  
 UF discharging (fission reactor)  
 UF fuel loading (fission reactor)  
 UF loading (fission reactor)  
 UF unloading (fission reactor)  
 UF unloading (reactor)  
 NT1 batch loading  
 RT fuel management  
 RT reactor charging machines  
 RT reactor operation  
 RT remote handling

**reactor fueling (fusion reactors)**

INIS: 1993-11-09; ETDE: 2002-05-01

USE thermonuclear reactor fueling

**reactor fuels**

2000-04-12

USE nuclear fuels

**reactor fuels (fission)**

INIS: 1982-11-29; ETDE: 2002-05-01

USE nuclear fuels

**reactor fuels (fusion)**

INIS: 1982-11-29; ETDE: 2002-05-01

USE thermonuclear fuels

**REACTOR INSTRUMENTATION***For fission reactors only.*

NT1 in core instruments  
 NT2 noise thermometers  
 RT acoustic monitoring  
 RT control rooms  
 RT loose parts monitoring  
 RT measuring instruments  
 RT reactor control systems  
 RT reactor monitoring systems  
 RT reactor operation  
 RT reactor protection systems  
 RT reactor safety  
 RT reactor shutdown

**reactor internals**

1976-02-05

*If appropriate, use descriptors for specific components.*

USE reactor components

**REACTOR KINETICS***For fission reactors only.*

UF control theory (fission reactor)  
 UF control theory (reactor)  
 UF fission reactor control theory  
 UF reactor control theory  
 BT1 kinetics  
 RT burnable poisons  
 RT control elements  
 RT control rod worths  
 RT criticality  
 RT delayed neutrons  
 RT heterogeneous effects  
 RT inhour equation  
 RT perturbation theory  
 RT poisoning  
 RT reactivity  
 RT reactivity coefficients  
 RT reactivity insertions  
 RT reactor kinetics equations  
 RT reactor noise  
 RT reactor period  
 RT reactor physics  
 RT reactor simulators  
 RT reactor stability  
 RT rod drop method

**REACTOR KINETICS EQUATIONS***For fission reactors only.*

UF kinetics equations (reactor)  
 BT1 equations  
 NT1 response matrix method  
 RT chapman-kolmogorov equation  
 RT reactor kinetics

**REACTOR LATTICE PARAMETERS**

UF pitch (reactor parameters)  
 UF reactor lattice pitch  
 RT homogenization methods  
 RT reactor lattices  
 RT reactor physics

**reactor lattice pitch**

USE reactor lattice parameters

**REACTOR LATTICES**

UF lattices (reactor)  
 RT configuration  
 RT configuration control  
 RT fuel elements  
 RT power density  
 RT reactor cells  
 RT reactor cores  
 RT reactor lattice parameters  
 RT zero power reactors

**REACTOR LICENSING***For fission reactors only.*

BT1 licensing  
 RT antitrust review  
 RT financial data  
 RT gesellschaft fuer anlagen- und reaktorsicherheit  
 RT lifetime extension  
 RT reactor safety

**REACTOR MAINTENANCE***For fission reactors only.*

BT1 maintenance  
 RT in-service inspection  
 RT inspection  
 RT reactor operation  
 RT repair  
 RT safety culture

**REACTOR MATERIALS***For fission reactors only; see also descriptors for specific materials.*

BT1 materials  
 NT1 nuclear fuels  
 NT2 alloy nuclear fuels  
 NT3 uranium-molybdenum fuels  
 NT2 denatured fuel  
 NT2 dispersion nuclear fuels  
 NT2 fuel solutions  
 NT2 liquid metal fuels  
 NT2 mixed carbide fuels  
 NT2 mixed nitride fuels  
 NT2 mixed oxide fuels  
 NT2 molten salt fuels  
 NT2 spent fuels  
 NT1 nuclear poisons  
 NT2 burnable poisons  
 NT2 fission poisons  
 NT2 soluble poisons  
 RT coolants  
 RT matrix materials  
 RT moderators  
 RT neutron absorbers  
 RT reactor components  
 RT shielding materials

**reactor materials (fusion reactors)**

INIS: 1993-11-09; ETDE: 2002-05-01

USE thermonuclear reactor materials

**REACTOR MONITORING SYSTEMS**

INIS: 1984-10-23; ETDE: 1984-11-08

*Measuring and evaluation systems for performance monitoring of reactor or its components. Not to be confused with**REACTOR CONTROL SYSTEMS.*

RT acoustic monitoring  
 RT failed element monitors  
 RT loose parts monitoring  
 RT monitoring  
 RT monitors  
 RT on-line measurement systems  
 RT reactor control systems  
 RT reactor instrumentation  
 RT temperature monitoring

**REACTOR NOISE**

UF noise (reactor)  
 RT correlation functions  
 RT reactor kinetics  
 RT variations

**REACTOR OPERATION***For fission reactors only.*

UF operation (fission reactor)  
 UF operation (reactor)  
 BT1 operation  
 RT fuel element failure  
 RT lifetime extension  
 RT reactor accidents  
 RT reactor fueling  
 RT reactor instrumentation  
 RT reactor maintenance  
 RT reactor operators  
 RT reactor shutdown  
 RT reactor start-up  
 RT repair  
 RT safety culture

**REACTOR OPERATORS**

INIS: 1981-02-27; ETDE: 1980-04-14

*For fission reactors only.*

BT1 personnel  
 RT reactor operation  
 RT safety culture

**REACTOR OSCILLATORS**

UF oscillators (reactor)  
 RT oscillators  
 RT pile oscillation techniques

**REACTOR PERIOD**

UF period (reactor)  
 RT reactor kinetics  
 RT rossi alpha method

**REACTOR PHYSICS**

INIS: 2000-01-26; ETDE: 1979-05-25

*Use only for indexing articles of very broad coverage, such as annual reviews or textbooks, dealing with fission reactors.*

BT1 physics  
 RT neutron slowing-down theory  
 RT neutron transport theory  
 RT reactor kinetics  
 RT reactor lattice parameters  
 RT reactor safety

**REACTOR POISON REMOVAL**

UF removal (reactor poison)  
 BT1 removal  
 RT nuclear poisons  
 RT samarium oscillations  
 RT xenon oscillations

**REACTOR PROTECTION SYSTEMS***For fission reactors only.*

BT1 engineered safety systems  
 NT1 eccs  
 NT2 core flooding systems  
 NT2 core spray systems

- NT2 high pressure coolant injection
- NT2 low pressure coolant injection
- NT1 reactor core restraints
- RT depressurization systems
- RT equipment protection devices
- RT missile protection
- RT reactor instrumentation
- RT reactor safety
- RT safety injection
- RT scram
- RT systems analysis

**REACTOR SAFETY**

1995-05-10

*Theoretical and experimental investigations of the behavior of fission reactor types and designs under various real or hypothetical accidents.*

- UF safety (reactor)
- BT1 safety
- RT accidents
- RT bethe-tait method
- RT boiling detection
- RT condensation chambers
- RT containment
- RT containment spray systems
- RT criticality
- RT depressurization
- RT fuel densification
- RT fuel element failure
- RT gesellschaft fuer anlagen- und reaktorsicherheit
- RT high pressure coolant injection
- RT hot channel factor
- RT hot spot factor
- RT international convention on nuclear safety
- RT international nuclear event scale
- RT low pressure coolant injection
- RT maximum credible accident
- RT missile protection
- RT molten metal-water reactions
- RT pressure release
- RT pressure suppression
- RT radiation protection
- RT reactor accident simulation
- RT reactor accidents
- RT reactor core restraints
- RT reactor instrumentation
- RT reactor licensing
- RT reactor physics
- RT reactor protection systems
- RT reactor technology
- RT reactors
- RT reliability
- RT safety engineering
- RT safety margins
- RT safety standards
- RT site selection
- RT systems analysis

**REACTOR SAFETY EXPERIMENTS**

*For fission reactors only.*

- NT1 containment mockup facility
- NT1 containment research installation
- NT1 containment systems experiment
- NT1 nuclear safety pilot plant
- RT eccs

**REACTOR SAFETY FUSES**

- UF fuses (reactor safety)
- BT1 reactor components
- RT reactor control systems
- RT scram

**REACTOR SHUTDOWN**

*For fission reactors only.*

- UF shutdown (reactor)
- BT1 shutdown
- NT1 scram

- RT after-heat
- RT reactor instrumentation
- RT reactor operation
- RT residual power

**REACTOR SIMULATORS**

*For fission reactors only.*

- UF simulators (reactor)
- \*BT1 simulators
- RT control rooms
- RT reactor kinetics

**REACTOR SITES**

1997-06-17

*For fission reactors only.*

- UF sites (fission reactor)
- UF sites (reactor)
- NT1 bruce site
- NT1 darlington site
- NT1 gravelines site
- NT1 pickering site
- RT environment
- RT external zones
- RT offshore nuclear power plants
- RT offshore sites
- RT on-site power generation
- RT site approvals
- RT site characterization
- RT site preparation
- RT site selection
- RT underground nuclear stations

**reactor siting**

- USE site selection

**REACTOR STABILITY**

*For fission reactors only.*

- UF stability (fission reactor)
- UF stability (reactor)
- BT1 stability
- RT frequency response testing
- RT nonlinear problems
- RT nyquist diagrams
- RT reactor kinetics
- RT transfer functions

**REACTOR START-UP**

*For fission reactors only.*

- UF start-up (fission reactor)
- UF start-up (reactor)
- BT1 start-up
- RT reactor operation
- RT thermonuclear ignition

**reactor start-up (thermonuclear ignition)**

*INIS: 1993-11-09; ETDE: 2002-05-01*

- USE thermonuclear ignition

**REACTOR TECHNOLOGY**

*INIS: 1975-08-20; ETDE: 1975-10-01*

*Use only for indexing articles of very broad coverage, such as annual reviews or textbooks, dealing with fission reactors.*

- RT nuclear engineering
- RT reactor safety
- RT reactors

**reactor thermal columns**

- USE thermal columns

**reactor triga puspati**

*INIS: 1985-01-17; ETDE: 1985-02-22*

*Malaysia.*

- USE rtp reactor

**reactor venezolano-1**

- USE rv-1 reactor

**REACTOR VESSELS**

*For nonpressurized containers of reactor cores and associated components.*

- UF vessels (reactor)
- BT1 containers

**REACTORS**

*Fission reactors only. For fusion reactors, use THERMONUCLEAR REACTORS, and for reactors combining both types of reactions, use HYBRID REACTORS.*

*UF nuclear reactors*

- NT1 breeder reactors
- NT2 fbr type reactors
- NT3 aipfr reactor
- NT3 gcfr type reactors
- NT4 gcfr reactor
- NT3 kalpakkam pfbr reactor
- NT3 lmfr type reactors
- NT4 beloyarsk-3 reactor
- NT4 beloyarsk-4 reactor
- NT4 bn-1600 reactor
- NT4 bn-350 reactor
- NT4 bn-800 reactor
- NT4 bor-60 reactor
- NT4 cdf reactor
- NT4 clinch river breeder reactor
- NT4 dfr reactor
- NT4 ebr-1 reactor
- NT4 ebr-2 reactor
- NT4 enrico fermi-1 reactor
- NT4 joyo reactor
- NT4 kalpakkam lmfr reactor
- NT4 monju reactor
- NT4 pfr reactor
- NT4 phenix reactor
- NT4 plbr reactor
- NT4 rapsodie reactor
- NT4 sbr-1 reactor
- NT4 sbr-2 reactor
- NT4 sbr-5 reactor
- NT4 snr-2 reactor
- NT4 snr reactor
- NT4 super phenix reactor
- NT3 pec brasimone reactor
- NT3 zebra reactor
- NT2 lwbr type reactors
- NT1 desalination reactors
- NT2 bn-350 reactor
- NT1 dust cooled reactors
- NT1 enriched uranium reactors
- NT2 acpr reactor
- NT2 aerojet-general nucleonics reactors
- NT2 afsr reactor
- NT2 agr type reactors
- NT3 connah quay-b reactor
- NT3 dungeness-b reactor
- NT3 hartlepool reactor
- NT3 heysham-a reactor
- NT3 heysham-b reactor
- NT3 hinkley point-b reactor
- NT3 hunterston-b reactor
- NT3 torness reactor
- NT3 wagr reactor
- NT2 ai-l-77 reactor
- NT2 akr-1 reactor
- NT2 alrr reactor
- NT2 anex reactor
- NT2 anna reactor
- NT2 aps reactor
- NT2 apsara reactor
- NT2 arbus reactor
- NT2 argonaut type reactors
- NT3 aeg-pr-10 reactor
- NT3 arbi reactor
- NT3 argonaut reactor
- NT3 argos reactor
- NT3 athene reactor
- NT3 jason reactor

NT3	lfr reactor	NT3	err reactor	NT3	olkiluoto-2 reactor
NT3	moata reactor	NT3	fitzpatrick reactor	NT3	onagawa-1 reactor
NT3	nestor reactor	NT3	forsmark-1 reactor	NT3	onagawa-2 reactor
NT3	queen mary college utr-b reactor	NT3	forsmark-2 reactor	NT3	onagawa-3 reactor
NT3	ra-1 reactor	NT3	forsmark-3 reactor	NT3	oyster creek-1 reactor
NT3	rb-2 reactor	NT3	fukushima-1 reactor	NT3	pathfinder reactor
NT3	rien-1 reactor	NT3	fukushima-2 reactor	NT3	peach bottom-2 reactor
NT3	src-utr-100 reactor	NT3	fukushima-3 reactor	NT3	peach bottom-3 reactor
NT3	stark reactor	NT3	fukushima-4 reactor	NT3	perry-1 reactor
NT3	strasbourg-cronenbourg reactor	NT3	fukushima-5 reactor	NT3	perry-2 reactor
NT3	ufr reactor	NT3	fukushima-6 reactor	NT3	philippsburg-1 reactor
NT3	ulyse reactor	NT3	fukushima-ii-1 reactor	NT3	phipps bend-1 reactor
NT3	urr reactor	NT3	fukushima-ii-2 reactor	NT3	phipps bend-2 reactor
NT3	utr-10-kinki reactor	NT3	fukushima-ii-3 reactor	NT3	pilgrim-1 reactor
NT3	vpi-utr-10 reactor	NT3	fukushima-ii-4 reactor	NT3	quad cities-1 reactor
NT2	argus reactor	NT3	garigliano reactor	NT3	quad cities-2 reactor
NT2	armf-1 reactor	NT3	garona reactor	NT3	ringhals-1 reactor
NT2	astra reactor	NT3	ge standard reactor	NT3	river bend-1 reactor
NT2	atr reactor	NT3	graben-1 reactor	NT3	river bend-2 reactor
NT2	atr reactor	NT3	graben-2 reactor	NT3	rwe-bayernwerk reactor
NT2	avogadro rs-1 reactor	NT3	grand gulf-1 reactor	NT3	shika-1 reactor
NT2	avr reactor	NT3	grand gulf-2 reactor	NT3	shimane-1 reactor
NT2	bawtr reactor	NT3	gundremmingen-2 reactor	NT3	shimane-2 reactor
NT2	beloyarsk-1 reactor	NT3	gundremmingen-3 reactor	NT3	shoreham reactor
NT2	beloyarsk-2 reactor	NT3	hamaoka-1 reactor	NT3	skagit-1 reactor
NT2	bgr reactor	NT3	hamaoka-2 reactor	NT3	skagit-2 reactor
NT2	bigr reactor	NT3	hamaoka-3 reactor	NT3	sl-1 reactor
NT2	bir reactor	NT3	hamaoka-4 reactor	NT3	susquehanna-1 reactor
NT2	bor-60 reactor	NT3	hamaoka-5 reactor	NT3	susquehanna-2 reactor
NT2	borax-1 reactor	NT3	hartsville-1 reactor	NT3	tarapur-1 reactor
NT2	borax-2 reactor	NT3	hartsville-2 reactor	NT3	tarapur-2 reactor
NT2	borax-3 reactor	NT3	hartsville-3 reactor	NT3	tokai-2 reactor
NT2	borax-4 reactor	NT3	hartsville-4 reactor	NT3	tsuruga reactor
NT2	borax-5 reactor	NT3	hatch-1 reactor	NT3	tullnerfeld reactor
NT2	br-02 reactor	NT3	hatch-2 reactor	NT3	vak reactor
NT2	br-2 reactor	NT3	hdr reactor	NT3	vbwr reactor
NT2	br-3-vn reactor	NT3	hope creek-1 reactor	NT3	vermont yankee reactor
NT2	brr reactor	NT4	newbold island-1 reactor	NT3	verplanck-1 reactor
NT2	bsr-1 reactor	NT3	hope creek-2 reactor	NT3	verplanck-2 reactor
NT2	bsr-2 reactor	NT4	newbold island-2 reactor	NT3	vk-50 reactor
NT2	bwr type reactors	NT3	humboldt bay reactor	NT3	wnp-2 reactor
NT3	allens creek-1 reactor	NT3	isar reactor	NT3	wuergassen reactor
NT3	allens creek-2 reactor	NT3	jpdr-2 reactor	NT3	zimmer-1 reactor
NT3	bailly-1 reactor	NT3	jpdr reactor	NT3	zimmer-2 reactor
NT3	barsebaeck-1 reactor	NT3	kaiseraugst reactor	NT2	byu 1-77 reactor
NT3	barsebaeck-2 reactor	NT3	kashiwazaki-kariwa-1 reactor	NT2	cabri reactor
NT3	barton-1 reactor	NT3	kashiwazaki-kariwa-2 reactor	NT2	cesnef reactor
NT3	barton-2 reactor	NT3	kashiwazaki-kariwa-3 reactor	NT2	chernobylsk-1 reactor
NT3	barton-3 reactor	NT3	kashiwazaki-kariwa-4 reactor	NT2	chernobylsk-2 reactor
NT3	barton-4 reactor	NT3	kashiwazaki-kariwa-5 reactor	NT2	chernobylsk-3 reactor
NT3	bell reactor	NT3	kashiwazaki-kariwa-6 reactor	NT2	chernobylsk-4 reactor
NT3	big rock point reactor	NT3	kashiwazaki-kariwa-7 reactor	NT2	consort-2 reactor
NT3	black fox-1 reactor	NT3	kruemmel reactor	NT2	coral-1 reactor
NT3	black fox-2 reactor	NT3	kuosheng-1 reactor	NT2	cp-3m reactor
NT3	bolsa chica-1 reactor	NT3	kuosheng-2 reactor	NT2	cp-5 reactor
NT3	bolsa chica-2 reactor	NT3	la salle county-1 reactor	NT2	cvtr reactor
NT3	bonus reactor	NT3	la salle county-2 reactor	NT2	democritus reactor
NT3	browns ferry-1 reactor	NT3	labwr reactor	NT2	dfr reactor
NT3	browns ferry-2 reactor	NT3	laguna verde-1 reactor	NT2	dido reactor
NT3	browns ferry-3 reactor	NT3	laguna verde-2 reactor	NT2	dmtr reactor
NT3	brunsbuettel reactor	NT3	leibstadt reactor	NT2	dr-1 reactor
NT3	brunswick-1 reactor	NT3	limerick-1 reactor	NT2	dr-2 reactor
NT3	brunswick-2 reactor	NT3	limerick-2 reactor	NT2	dr-3 reactor
NT3	chinshan-1 reactor	NT3	lingen reactor	NT2	dragon reactor
NT3	chinshan-2 reactor	NT3	mendocino-1 reactor	NT2	ebor reactor
NT3	clinton-1 reactor	NT3	mendocino-2 reactor	NT2	egcr reactor
NT3	clinton-2 reactor	NT3	millstone-1 reactor	NT2	el-3 reactor
NT3	cofrentes reactor	NT3	montague-1 reactor	NT2	el-4 reactor
NT3	cooper reactor	NT3	montague-2 reactor	NT2	enrico fermi-1 reactor
NT3	dodewaard reactor	NT3	montalto di castro-1 reactor	NT2	eoer reactor
NT3	douglas point-1 reactor	NT3	montalto di castro-2 reactor	NT2	es-salam reactor
NT3	douglas point-2 reactor	NT3	monticello reactor	NT2	esada-vesr reactor
NT3	dresden-1 reactor	NT3	muehleberg reactor	NT2	essor reactor
NT3	dresden-2 reactor	NT3	nine mile point-1 reactor	NT2	etr reactor
NT3	dresden-3 reactor	NT3	nine mile point-2 reactor	NT2	etrc reactor
NT3	duane arnold-1 reactor	NT3	okg-1 reactor	NT2	etrr-2 reactor
NT3	ebwr reactor	NT3	okg-2 reactor	NT2	evsr reactor
NT3	enel-4 reactor	NT3	okg-3 reactor	NT2	ewg-1 reactor
NT3	enrico fermi-2 reactor	NT3	olkiluoto-1 reactor	NT2	fmr reactor

NT2	fnr reactor	NT2	lptr reactor	NT3	atlantic-2 reactor
NT2	fr-0 reactor	NT2	lucens reactor	NT3	basf-1 reactor
NT2	frf reactor	NT2	maple reactor	NT3	basf-2 reactor
NT2	frg-1 reactor	NT2	maple type reactors	NT3	beaver valley-1 reactor
NT2	frg-2 reactor	NT2	maria reactor	NT3	beaver valley-2 reactor
NT2	frj-1 reactor	NT2	marviken reactor	NT3	bellefonte-1 reactor
NT2	frj-2 reactor	NT2	maryla reactor	NT3	bellefonte-2 reactor
NT2	frm-ii reactor	NT2	masurca reactor	NT3	belleville sur loire-1 reactor
NT2	frm reactor	NT2	melusine-1 reactor	NT3	belleville sur loire-2 reactor
NT2	fulton-1 reactor	NT2	merlin reactor	NT3	beznau-1 reactor
NT2	fulton-2 reactor	NT2	minerve reactor	NT3	beznau-2 reactor
NT2	ga siwabessy reactor	NT2	mitr reactor	NT3	biblis-1 reactor
NT2	ga standard reactor	NT2	ml-1 reactor	NT3	biblis-2 reactor
NT2	getr reactor	NT2	mnr reactor	NT3	biblis-3 reactor
NT2	gidra reactor	NT2	mnsr type reactors	NT3	biblis-4 reactor
NT2	gtrr reactor	NT3	gharr-1 reactor	NT3	blayais-1 reactor
NT2	hanaro reactor	NT3	mnsr-ciae reactor	NT3	blue hills-1 reactor
NT2	harmonie reactor	NT3	mnsr-sd reactor	NT3	blue hills-2 reactor
NT2	hbwr reactor	NT3	mnsr-sh reactor	NT3	borssele reactor
NT2	hector reactor	NT3	mnsr-sz reactor	NT3	br-3 reactor
NT2	herald reactor	NT3	nirr-1 reactor	NT3	braidwood-1 reactor
NT2	hero reactor	NT3	parr-2 reactor	NT3	braidwood-2 reactor
NT2	hfbr reactor	NT3	srr-1 reactor	NT3	brokdorf reactor
NT2	hfetr reactor	NT2	mrr reactor	NT3	bugey-2 reactor
NT2	hfir reactor	NT2	msre reactor	NT3	bugey-3 reactor
NT2	hfr reactor	NT2	mtr reactor	NT3	bugey-4 reactor
NT2	hifar reactor	NT2	murr reactor	NT3	bugey-5 reactor
NT2	hnpf reactor	NT2	n-reactor	NT3	bw standard reactor
NT2	hor reactor	NT2	nescr-1 reactor	NT3	byron-1 reactor
NT2	horace reactor	NT2	nevada university reactor	NT3	byron-2 reactor
NT2	hprr reactor	NT2	nhr-5 reactor	NT3	calhoun-1 reactor
NT2	hre-2 reactor	NT2	niederaichbach reactor	NT3	calhoun-2 reactor
NT2	htlrr reactor	NT2	nsrr reactor	NT3	callaway-1 reactor
NT2	htr-10 reactor	NT2	ntr reactor	NT3	callaway-2 reactor
NT2	htr reactor	NT2	nuclear furnace reactor	NT3	calvert cliffs-1 reactor
NT2	httr reactor	NT2	nur reactor	NT3	calvert cliffs-2 reactor
NT2	hwctr reactor	NT2	oldbury-b reactor	NT3	catawba-1 reactor
NT2	ian-r1 reactor	NT2	omre reactor	NT3	catawba-2 reactor
NT2	iear-1 reactor	NT2	opal reactor	NT3	cattenom-1 reactor
NT2	ignalina-1 reactor	NT2	orr reactor	NT3	cattenom-2 reactor
NT2	ignalina-2 reactor	NT2	osiris reactor	NT3	cattenom-3 reactor
NT2	igr reactor	NT2	owr reactor	NT3	cattenom-4 reactor
NT2	irl reactor	NT2	parr-1 reactor	NT3	ce standard reactor
NT2	irr-1 reactor	NT2	pbr reactor	NT3	cherokee-1 reactor
NT2	irt-2000 djakarta reactor	NT2	ptr reactor	NT3	cherokee-2 reactor
NT2	irt-2000 moscow reactor	NT2	peach bottom-1 reactor	NT3	cherokee-3 reactor
NT2	irt-c reactor	NT2	pegase reactor	NT3	chinon-b1 reactor
NT2	irt-f reactor	NT2	peggy reactor	NT3	civaux-1 reactor
NT2	irt reactor	NT2	pelinduna reactor	NT3	civaux-2 reactor
NT2	irt-sofia reactor	NT2	perryman-1 reactor	NT3	comanche peak-1 reactor
NT2	isis reactor	NT2	perryman-2 reactor	NT3	comanche peak-2 reactor
NT2	ispra-1 reactor	NT2	phebus reactor	NT3	connecticut yankee reactor
NT2	ivv-2m reactor	NT2	phenix reactor	NT3	cook-1 reactor
NT2	janus reactor	NT2	pik physical model reactor	NT3	cook-2 reactor
NT2	jeep-2 reactor	NT2	pik reactor	NT3	cruas-2 reactor
NT2	jen-1 reactor	NT2	pluto reactor	NT3	cruas-3 reactor
NT2	jen reactor	NT2	pnpf reactor	NT3	cruas-4 reactor
NT2	jmtr reactor	NT2	prnc-l-77 reactor	NT3	crystal river-3 reactor
NT2	jrr-1 reactor	NT2	proteus reactor	NT3	crystal river-4 reactor
NT2	jrr-2 reactor	NT2	prr-1 reactor	NT3	dampierre-1 reactor
NT2	jrr-3m reactor	NT2	prr reactor	NT3	dampierre-2 reactor
NT2	jrr-4 reactor	NT2	ptr reactor	NT3	dampierre-3 reactor
NT2	jules horowitz reactor	NT2	pulstar-buffalo reactor	NT3	dampierre-4 reactor
NT2	knk-2 reactor	NT2	pur-1 reactor	NT3	davis besse-1 reactor
NT2	knk reactor	NT2	pwr type reactors	NT3	davis besse-2 reactor
NT2	kuca reactor	NT3	aguirre reactor	NT3	davis besse-3 reactor
NT2	kuhfr reactor	NT3	almaraz-1 reactor	NT3	daya bay-1 reactor
NT2	kur reactor	NT3	almaraz-2 reactor	NT3	daya bay-2 reactor
NT2	kursk-1 reactor	NT3	angra-1 reactor	NT3	diablo canyon-1 reactor
NT2	kursk-2 reactor	NT3	angra-2 reactor	NT3	diablo canyon-2 reactor
NT2	kursk-3 reactor	NT3	angra-3 reactor	NT3	doel-1 reactor
NT2	kursk-4 reactor	NT3	ardennes b-1 reactor	NT3	doel-2 reactor
NT2	leningrad-1 reactor	NT3	ardennes b-2 reactor	NT3	doel-3 reactor
NT2	leningrad-2 reactor	NT3	ardennes reactor	NT3	doel-4 reactor
NT2	leningrad-3 reactor	NT3	arkansas-1 reactor	NT3	efdr-50 reactor
NT2	leningrad-4 reactor	NT3	arkansas-2 reactor	NT3	ensland reactor
NT2	lido reactor	NT3	asco-1 reactor	NT3	erie-1 reactor
NT2	litr reactor	NT3	asco-2 reactor	NT3	erie-2 reactor
NT2	lpr reactor	NT3	atlantic-1 reactor	NT3	farley-1 reactor

NT3	farley-2 reactor	NT3	neckar-2 reactor	NT3	sendai-2 reactor
NT3	fessenheim-1 reactor	NT3	nep-1 reactor	NT3	sequoyah-1 reactor
NT3	flamanville-1 reactor	NT3	nep-2 reactor	NT3	sequoyah-2 reactor
NT3	flamanville-2 reactor	NT3	neupotz-1 reactor	NT3	shippingport reactor
NT3	forked river-1 reactor	NT3	neupotz-2 reactor	NT3	sizewell-b reactor
NT3	genkai-1 reactor	NT3	nogent sur seine-1 reactor	NT3	sm-1 reactor
NT3	genkai-2 reactor	NT3	nogent sur seine-2 reactor	NT3	sm-1a reactor
NT3	genkai-3 reactor	NT3	north anna-1 reactor	NT3	south texas project-1 reactor
NT3	genkai-4 reactor	NT3	north anna-2 reactor	NT3	south texas project-2 reactor
NT3	ginna-1 reactor	NT3	north anna-3 reactor	NT3	stade reactor
NT3	goesgen reactor	NT3	north anna-4 reactor	NT3	sterling-1 reactor
NT3	golfech-1 reactor	NT3	north coast-1 reactor	NT3	sterling-2 reactor
NT3	golfech-2 reactor	NT3	northheim reactor	NT3	summer-1 reactor
NT3	grafenrheinfeld reactor	NT3	oconee-1 reactor	NT3	sundesert-1 reactor
NT3	gravelines-1 reactor	NT3	oconee-2 reactor	NT3	sundesert-2 reactor
NT3	gravelines-2 reactor	NT3	oconee-3 reactor	NT3	surry-1 reactor
NT3	gravelines-3 reactor	NT3	oi-1 reactor	NT3	surry-2 reactor
NT3	gravelines-4 reactor	NT3	oi-2 reactor	NT3	surry-3 reactor
NT3	gravelines-5 reactor	NT3	oi-3 reactor	NT3	surry-4 reactor
NT3	gravelines-6 reactor	NT3	oi-4 reactor	NT3	takahama-1 reactor
NT3	greene county reactor	NT3	oktomberyan-2 reactor	NT3	takahama-2 reactor
NT3	greenwood-2 reactor	NT3	olkiluoto-3 reactor	NT3	takahama-3 reactor
NT3	greenwood-3 reactor	NT3	otto hahn reactor	NT3	takahama-4 reactor
NT3	grohnde reactor	NT3	palisades-1 reactor	NT3	three mile island-1 reactor
NT3	hamm-uentrop reactor	NT3	palo verde-1 reactor	NT3	three mile island-2 reactor
NT3	harris-1 reactor	NT3	palo verde-2 reactor	NT3	tihange-2 reactor
NT3	harris-2 reactor	NT3	palo verde-3 reactor	NT3	tihange-3 reactor
NT3	harris-3 reactor	NT3	palo verde-4 reactor	NT3	tihange reactor
NT3	harris-4 reactor	NT3	palo verde-5 reactor	NT3	tomari-1 reactor
NT3	haven-1 reactor	NT3	paluel-1 reactor	NT3	tomari-2 reactor
NT4	koshkonong-1 reactor	NT3	paluel-2 reactor	NT3	tricastin-1 reactor
NT3	haven-2 reactor	NT3	paluel-3 reactor	NT3	tricastin-4 reactor
NT4	koshkonong-2 reactor	NT3	paluel-4 reactor	NT3	trillo-1 reactor
NT3	ikata-2 reactor	NT3	pat reactor	NT3	trojan reactor
NT3	ikata-3 reactor	NT3	pebble springs-1 reactor	NT3	tsuruga-2 reactor
NT3	ikata reactor	NT3	pebble springs-2 reactor	NT3	turkey point-3 reactor
NT3	indian point-1 reactor	NT3	penly-1 reactor	NT3	turkey point-4 reactor
NT3	indian point-2 reactor	NT3	perkins-1 reactor	NT3	tva-1 reactor
NT3	indian point-3 reactor	NT3	perkins-2 reactor	NT3	tva-2 reactor
NT3	iran-1 reactor	NT3	perkins-3 reactor	NT3	tyrone-1 reactor
NT3	iran-2 reactor	NT3	philippsburg-2 reactor	NT3	tyrone-2 reactor
NT3	isar-2 reactor	NT3	pilgrim-2 reactor	NT3	ulchin-1 reactor
NT3	jamesport-1 reactor	NT3	pilgrim-3 reactor	NT3	ulchin-2 reactor
NT3	jamesport-2 reactor	NT3	pm-2a reactor	NT3	ulchin-3 reactor
NT3	kewaunee reactor	NT3	pm-3a reactor	NT3	ulchin-4 reactor
NT3	koeberg-1 reactor	NT3	pnp-1 reactor	NT3	unterweser reactor
NT3	koeberg-2 reactor	NT3	point beach-1 reactor	NT3	vahnum-1 reactor
NT3	kori-1 reactor	NT3	point beach-2 reactor	NT3	vahnum-2 reactor
NT3	kori-2 reactor	NT3	prairie island-1 reactor	NT3	vandellos-2 reactor
NT3	kori-3 reactor	NT3	prairie island-2 reactor	NT3	vogtle-1 reactor
NT3	kori-4 reactor	NT3	qinshan-1 reactor	NT3	vogtle-2 reactor
NT3	krsko reactor	NT3	qinshan-2-1 reactor	NT3	vogtle-3 reactor
NT3	lemoniz-1 reactor	NT3	qinshan-2-2 reactor	NT3	vogtle-4 reactor
NT3	lemoniz-2 reactor	NT3	quancassee-1 reactor	NT3	waterford-3 reactor
NT3	lenin reactor	NT3	quancassee-2 reactor	NT3	waterford-4 reactor
NT3	leonid brezhnev reactor	NT3	rancho seco-1 reactor	NT3	watts bar-1 reactor
NT3	lingao-1 reactor	NT3	remerschen reactor	NT3	watts bar-2 reactor
NT3	lingao-2 reactor	NT3	rheinsberg akw1 reactor	NT3	westinghouse standard reactor
NT3	loft reactor	NT3	ringhals-2 reactor	NT3	wnp-1 reactor
NT3	lucie-1 reactor	NT3	ringhals-3 reactor	NT3	wnp-3 reactor
NT3	lucie-2 reactor	NT3	ringhals-4 reactor	NT3	wnp-4 reactor
NT3	maanshan-1 reactor	NT3	robinson-2 reactor	NT3	wnp-5 reactor
NT3	maine yankee reactor	NT3	rooppur reactor	NT3	wolf creek-1 reactor
NT3	malibu-1 reactor	NT3	rowe yankee reactor	NT3	wup-3 reactor
NT3	marble hill-1 reactor	NT3	s1c prototype reactor	NT3	wup-4 reactor
NT3	marble hill-2 reactor	NT3	saint alban-1 reactor	NT3	wup-5 reactor
NT3	mc guire-1 reactor	NT3	saint alban-2 reactor	NT3	wup-6 reactor
NT3	mc guire-2 reactor	NT3	saint laurent-b1 reactor	NT3	wwer type reactors
NT3	mh-1a reactor	NT3	salem-1 reactor	NT4	armenian-1 reactor
NT3	midland-1 reactor	NT3	salem-2 reactor	NT4	armenian-2 reactor
NT3	midland-2 reactor	NT3	san onofre-1 reactor	NT4	balakovo-1 reactor
NT3	mihama-1 reactor	NT3	san onofre-2 reactor	NT4	balakovo-2 reactor
NT3	mihama-2 reactor	NT3	san onofre-3 reactor	NT4	balakovo-3 reactor
NT3	mihama-3 reactor	NT3	savannah reactor	NT4	balakovo-4 reactor
NT3	millstone-2 reactor	NT3	saxton reactor	NT4	blahutovice-1 reactor
NT3	millstone-3 reactor	NT3	seabrook-1 reactor	NT4	bohunice v-1 reactor
NT3	muelheim-kaerlich reactor	NT3	seabrook-2 reactor	NT4	bohunice v-2 reactor
NT3	mutsu reactor	NT3	selni reactor	NT4	dukovany-1 reactor
NT3	neckar-1 reactor	NT3	sendai-1 reactor	NT4	dukovany-2 reactor

- NT4** dukovany-3 reactor  
**NT4** dukovany-4 reactor  
**NT4** greifswald-1 reactor  
**NT4** greifswald-2 reactor  
**NT4** greifswald-3 reactor  
**NT4** greifswald-4 reactor  
**NT4** greifswald-5 reactor  
**NT4** greifswald-6 reactor  
**NT4** juragua-1 reactor  
**NT4** kalinin-1 reactor  
**NT4** kalinin-3 reactor  
**NT4** kecerovce-1 reactor  
**NT4** khmelnitskij-1 reactor  
**NT4** kola-1 reactor  
**NT4** kola-2 reactor  
**NT4** kola-3 reactor  
**NT4** kola-4 reactor  
**NT4** kozloduy-1 reactor  
**NT4** kozloduy-2 reactor  
**NT4** kozloduy-3 reactor  
**NT4** kozloduy-4 reactor  
**NT4** kozloduy-5 reactor  
**NT4** kozloduy-6 reactor  
**NT4** kudankulam-1 reactor  
**NT4** kudankulam-2 reactor  
**NT4** loviisa-1 reactor  
**NT4** loviisa-2 reactor  
**NT4** mochovce-1 reactor  
**NT4** mochovce-2 reactor  
**NT4** novovoronezh-1 reactor  
**NT4** novovoronezh-2 reactor  
**NT4** novovoronezh-3 reactor  
**NT4** novovoronezh-4 reactor  
**NT4** novovoronezh-5 reactor  
**NT4** paks-1 reactor  
**NT4** paks-2 reactor  
**NT4** paks-3 reactor  
**NT4** paks-4 reactor  
**NT4** rovno-1 reactor  
**NT4** rovno-2 reactor  
**NT4** rovno-3 reactor  
**NT4** rovno-4 reactor  
**NT4** rovno-5 reactor  
**NT4** south ukrainian-1 reactor  
**NT4** south ukrainian-2 reactor  
**NT4** south ukrainian-3 reactor  
**NT4** stendal-1 reactor  
**NT4** tatarian reactor  
**NT4** temelin-1 reactor  
**NT4** temelin-2 reactor  
**NT4** tianwan-1 reactor  
**NT4** zaporozhe-1 reactor  
**NT4** zaporozhe-2 reactor  
**NT4** zaporozhe-3 reactor  
**NT4** zaporozhe-4 reactor  
**NT4** zaporozhe-5 reactor  
**NT4** zaporozhe-6 reactor  
**NT3** wyhl-1 reactor  
**NT3** wyhl-2 reactor  
**NT3** yellow creek-1 reactor  
**NT3** yellow creek-2 reactor  
**NT3** yonggwang-1 reactor  
**NT3** yonggwang-2 reactor  
**NT3** yonggwang-3 reactor  
**NT3** yonggwang-4 reactor  
**NT3** zion-1 reactor  
**NT3** zion-2 reactor  
**NT3** zorita-1 reactor  
**NT2** r-2 reactor  
**NT2** r-a reactor  
**NT2** r2-0 reactor  
**NT2** ra-5 reactor  
**NT2** ra-6 reactor  
**NT2** ra-8 reactor  
**NT2** rana reactor  
**NT2** rapsodie reactor  
**NT2** rb-1 reactor  
**NT2** rg-1m reactor  
**NT2** ritmo reactor  
**NT2** rospo reactor  
**NT2** rpt reactor  
**NT2** rts-1 reactor  
**NT2** rv-1 reactor  
**NT2** safari-1 reactor  
**NT2** saphir reactor  
**NT2** sbr-1 reactor  
**NT2** schmehausen-2 reactor  
**NT2** ser reactor  
**NT2** shgwr reactor  
**NT2** shca reactor  
**NT2** silene reactor  
**NT2** siloe reactor  
**NT2** siloette reactor  
**NT2** slowpoke type reactors  
**NT3** slowpoke-alberta reactor  
**NT3** slowpoke-dalhouse reactor  
**NT3** slowpoke-montreal reactor  
**NT3** slowpoke-ottawa reactor  
**NT3** slowpoke-toronto reactor  
**NT3** slowpoke-wrre reactor  
**NT2** smolensk-1 reactor  
**NT2** smolensk-2 reactor  
**NT2** smolensk-3 reactor  
**NT2** snap 10 reactor  
**NT3** s10fs-1 reactor  
**NT3** s10fs-3 reactor  
**NT3** s10fs-4 reactor  
**NT2** snap 2 reactor  
**NT3** s2ds reactor  
**NT2** snap 50 reactor  
**NT2** snap 8 reactor  
**NT3** s8dr reactor  
**NT3** s8er reactor  
**NT2** snap-tsf reactor  
**NT2** snaptran reactors  
**NT2** spert-1 reactor  
**NT2** spert-2 reactor  
**NT2** spert-3 reactor  
**NT2** spert-4 reactor  
**NT2** sr-1 reactor  
**NT2** sr-oa reactor  
**NT2** sre reactor  
**NT2** stacy reactor  
**NT2** stek reactor  
**NT2** stir reactor  
**NT2** summit-1 reactor  
**NT2** summit-2 reactor  
**NT2** super phenix reactor  
**NT2** supo reactor  
**NT2** sur-100 series reactor  
**NT2** tca reactor  
**NT2** thetis reactor  
**NT2** thor reactor  
**NT2** thtr-300 reactor  
**NT2** tibr reactor  
**NT2** toshiba reactor  
**NT2** tr-1 reactor  
**NT2** tr-2 reactor  
**NT2** tracy reactor  
**NT2** treat reactor  
**NT2** triga type reactors  
**NT3** afri reactor  
**NT3** atrp reactor  
**NT3** colorado triga-mk-3 reactor  
**NT3** cornell triga-mk-2 reactor  
**NT3** dow triga-mk-1 reactor  
**NT3** fir-1 reactor  
**NT3** fir-2 reactor  
**NT3** fn reactor  
**NT3** gulf triga-mk-3 reactor  
**NT3** kartini-ppny reactor  
**NT3** lopra reactor  
**NT3** nscr reactor  
**NT3** ostr reactor  
**NT3** prpr reactor  
**NT3** pstr reactor  
**NT3** rtp reactor  
**NT3** trico reactor  
**NT3** triga-1-arizona reactor  
**NT3** triga-1-california reactor  
**NT3** triga-1-hanford reactor  
**NT3** triga-1-hanover reactor  
**NT3** triga-1-heidelberg reactor  
**NT3** triga-1-michigan reactor  
**NT3** triga-2-bandung reactor  
**NT3** triga-2-bangladesh reactor  
**NT3** triga-2-dalat reactor  
**NT3** triga-2-illinois reactor  
**NT3** triga-2-kansas reactor  
**NT3** triga-2-ljubljana reactor  
**NT3** triga-2-mainz reactor  
**NT3** triga-2-musashi reactor  
**NT3** triga-2-pavia reactor  
**NT3** triga-2-pitesti reactor  
**NT3** triga-2 reactor  
**NT3** triga-2-rikkyo reactor  
**NT3** triga-2-rome reactor  
**NT3** triga-2-seoul reactor  
**NT3** triga-2-vienna reactor  
**NT3** triga-3-la jolla reactor  
**NT3** triga-3-munich reactor  
**NT3** triga-3-salazar reactor  
**NT3** triga-3-seoul reactor  
**NT3** triga-brazil reactor  
**NT3** triga-texas reactor  
**NT3** triga-veterans reactor  
**NT3** ucbr reactor  
**NT3** uwnr reactor  
**NT3** wsur reactor  
**NT2** triton reactor  
**NT2** trr-1 reactor  
**NT2** tsr-1 reactor  
**NT2** tz1 reactor  
**NT2** tz2 reactor  
**NT2** uhtrex reactor  
**NT2** uknr reactor  
**NT2** umne-1 reactor  
**NT2** umrr reactor  
**NT2** utrr reactor  
**NT2** uvar reactor  
**NT2** uwtr reactor  
**NT2** venus reactor  
**NT2** vg-400 reactor  
**NT2** vgr-50 reactor  
**NT2** vhr reactor  
**NT2** vidal-1 reactor  
**NT2** vidal-2 reactor  
**NT2** viper reactor  
**NT2** vr-1 reactor  
**NT2** vrain reactor  
**NT2** wnt reactor  
**NT2** wpir reactor  
**NT2** wr-1 reactor  
**NT2** wrr reactor  
**NT2** wtr reactor  
**NT2** wwr type reactors  
**NT3** budapest training reactor  
**NT3** irt-1 libya reactor  
**NT3** irt-baghdad reactor  
**NT3** lvr-15 reactor  
**NT3** wwr-2 reactor  
**NT3** wwr-k-almaty reactor  
**NT3** wwr-m-kiev reactor  
**NT3** wwr-m-leningrad reactor  
**NT3** wwr-s-bucharest reactor  
**NT3** wwr-s-budapest reactor  
**NT3** wwr-s-cairo reactor  
**NT3** wwr-s-moscow reactor  
**NT3** wwr-s-prague reactor  
**NT3** wwr-s-tashkent reactor  
**NT3** wwr-sm rossendorf reactor  
**NT3** wwr-z reactor  
**NT2** xma-1 reactor  
**NT2** zlfr reactor  
**NT2** zpr reactor  
**NT1** epithermal reactors  
**NT2** fast reactors



- NT3** actinide burner reactors  
**NT3** afsr reactor  
**NT3** aprf reactor  
**NT3** bfs reactor  
**NT3** bigr reactor  
**NT3** bir reactor  
**NT3** cefr reactor  
**NT3** cfmf reactor  
**NT3** clementine reactor  
**NT3** coral-1 reactor  
**NT3** ecel reactor  
**NT3** fbr type reactors  
**NT4** aipfr reactor  
**NT4** gcfr type reactors  
**NT5** gcfr reactor  
**NT4** kalpakkam pfbr reactor  
**NT4** lmfbtr type reactors  
**NT5** beloyarsk-3 reactor  
**NT5** beloyarsk-4 reactor  
**NT5** bn-1600 reactor  
**NT5** bn-350 reactor  
**NT5** bn-800 reactor  
**NT5** bor-60 reactor  
**NT5** cdfr reactor  
**NT5** clinch river breeder reactor  
**NT5** dfr reactor  
**NT5** ebr-1 reactor  
**NT5** ebr-2 reactor  
**NT5** Enrico Fermi-1 reactor  
**NT5** joyo reactor  
**NT5** kalpakkam lmfbtr reactor  
**NT5** monju reactor  
**NT5** pfr reactor  
**NT5** phenix reactor  
**NT5** plbr reactor  
**NT5** rapsodie reactor  
**NT5** sbr-1 reactor  
**NT5** sbr-2 reactor  
**NT5** sbr-5 reactor  
**NT5** snr-2 reactor  
**NT5** snr reactor  
**NT5** super phenix reactor  
**NT4** pec brasimone reactor  
**NT4** zebra reactor  
**NT3** fbrf reactor  
**NT3** fca reactor  
**NT3** fffr reactor  
**NT3** fr-0 reactor  
**NT3** harmonie reactor  
**NT3** hprr reactor  
**NT3** ibr-2 reactor  
**NT3** ibr-30 reactor  
**NT3** ifr reactor  
**NT3** kalpakkam pfbr reactor  
**NT3** kbr-1 reactor  
**NT3** knk-2 reactor  
**NT3** lampre-1 reactor  
**NT3** masurca reactor  
**NT3** purnima-2 reactor  
**NT3** purnima reactor  
**NT3** saref reactor  
**NT3** sefor reactor  
**NT3** sneak reactor  
**NT3** sora reactor  
**NT3** stf reactor  
**NT3** tapiro reactor  
**NT3** tibr reactor  
**NT3** vera reactor  
**NT3** viper reactor  
**NT3** wnttr reactor  
**NT3** yayoi reactor  
**NT3** zephyr reactor  
**NT3** zppr reactor  
**NT3** zpr-3 reactor  
**NT3** zpr-6 reactor  
**NT3** zpr-9 reactor  
**NT3** zrr reactor  
**NT2** intermediate reactors  
**NT3** thor reactor  
**NT1** fluid fueled reactors  
**NT2** gas fueled reactors  
**NT3** coaxial flow reactors  
**NT3** light bulb reactors  
**NT3** plasma core assembly  
**NT2** liquid homogeneous reactors  
**NT3** aqueous homogeneous reactors  
**NT4** ai-l-77 reactor  
**NT4** argus reactor  
**NT4** ber-2 reactor  
**NT4** byu l-77 reactor  
**NT4** cesnef reactor  
**NT4** dr-1 reactor  
**NT4** firf reactor  
**NT4** gidra reactor  
**NT4** hre-2 reactor  
**NT4** jrr-1 reactor  
**NT4** kewb reactor  
**NT4** kstr reactor  
**NT4** ncsr-1 reactor  
**NT4** nevada university reactor  
**NT4** prnc-l-77 reactor  
**NT4** supo reactor  
**NT4** wrrr reactor  
**NT2** molten salt fueled reactors  
**NT1** fog cooled reactors  
**NT1** gas cooled reactors  
**NT2** air cooled reactors  
**NT3** afsr reactor  
**NT3** bepo reactor  
**NT3** bgrr reactor  
**NT3** br-1 reactor  
**NT3** g-1 reactor  
**NT3** gleep reactor  
**NT3** harmonie reactor  
**NT3** hprr reactor  
**NT3** kalpakkam pfr reactor  
**NT3** masurca reactor  
**NT3** sneak reactor  
**NT3** stf reactor  
**NT3** tory-2a reactor  
**NT3** tory-2c reactor  
**NT3** treat reactor  
**NT3** windscale production reactors  
**NT3** x-10 reactor  
**NT3** xma-1 reactor  
**NT3** zed-2 reactor  
**NT2** carbon dioxide cooled reactors  
**NT3** berkeley reactor  
**NT3** bohunice a-1 reactor  
**NT3** bradwell reactor  
**NT3** bugey-1 reactor  
**NT3** calder hall a-1 reactor  
**NT3** calder hall a-2 reactor  
**NT3** calder hall b-3 reactor  
**NT3** calder hall b-4 reactor  
**NT3** cesar reactor  
**NT3** chapelcross-1 reactor  
**NT3** chapelcross-2 reactor  
**NT3** chapelcross-3 reactor  
**NT3** chapelcross-4 reactor  
**NT3** chinon-1 reactor  
**NT3** chinon-2 reactor  
**NT3** chinon-3 reactor  
**NT3** connah quay-b reactor  
**NT3** dungeness-a reactor  
**NT3** dungeness-b reactor  
**NT3** el-2 reactor  
**NT3** el-4 reactor  
**NT3** g-2 reactor  
**NT3** g-3 reactor  
**NT3** hartlepool reactor  
**NT3** hector reactor  
**NT3** hero reactor  
**NT3** heysham-a reactor  
**NT3** heysham-b reactor  
**NT3** hinkley point-a reactor  
**NT3** hinkley point-b reactor  
**NT3** hunterston-a reactor  
**NT3** hunterston-b reactor  
**NT3** latina reactor  
**NT3** lucerna reactor  
**NT3** niederaichbach reactor  
**NT3** oldbury-a reactor  
**NT3** oldbury-b reactor  
**NT3** saint laurent-1 reactor  
**NT3** saint laurent-2 reactor  
**NT3** sizewell-a reactor  
**NT3** tokai-mura reactor  
**NT3** torness reactor  
**NT3** trawsfynydd reactor  
**NT3** vandellos reactor  
**NT3** wagr reactor  
**NT3** wylfa reactor  
**NT2** ewg-1 reactor  
**NT2** gcfr type reactors  
**NT3** gcfr reactor  
**NT2** gcr type reactors  
**NT3** agr type reactors  
**NT4** connah quay-b reactor  
**NT4** dungeness-b reactor  
**NT4** hartlepool reactor  
**NT4** heysham-a reactor  
**NT4** heysham-b reactor  
**NT4** hinkley point-b reactor  
**NT4** hunterston-b reactor  
**NT4** torness reactor  
**NT4** wagr reactor  
**NT3** bugey-1 reactor  
**NT3** chinon-1 reactor  
**NT3** chinon-2 reactor  
**NT3** chinon-3 reactor  
**NT3** g-1 reactor  
**NT3** g-2 reactor  
**NT3** g-3 reactor  
**NT3** magnox type reactors  
**NT4** berkeley reactor  
**NT4** bradwell reactor  
**NT4** calder hall a-1 reactor  
**NT4** calder hall a-2 reactor  
**NT4** calder hall b-3 reactor  
**NT4** calder hall b-4 reactor  
**NT4** chapelcross-1 reactor  
**NT4** chapelcross-2 reactor  
**NT4** chapelcross-3 reactor  
**NT4** chapelcross-4 reactor  
**NT4** dungeness-a reactor  
**NT4** hinkley point-a reactor  
**NT4** hunterston-a reactor  
**NT4** latina reactor  
**NT4** oldbury-a reactor  
**NT4** sizewell-a reactor  
**NT4** tokai-mura reactor  
**NT4** trawsfynydd reactor  
**NT4** wylfa reactor  
**NT3** saint laurent-1 reactor  
**NT3** saint laurent-2 reactor  
**NT3** vandellos reactor  
**NT2** helium cooled reactors  
**NT3** avr reactor  
**NT3** dragon reactor  
**NT3** ebora reactor  
**NT3** egr reactor  
**NT3** fulton-1 reactor  
**NT3** fulton-2 reactor  
**NT3** gcfr reactor  
**NT3** gre reactor  
**NT3** htr-10 reactor  
**NT3** hitr reactor  
**NT3** iea-zpr reactor  
**NT3** peach bottom-1 reactor  
**NT3** schmehausen-2 reactor  
**NT3** summit-1 reactor  
**NT3** summit-2 reactor  
**NT3** thtr-300 reactor  
**NT3** uhtrex reactor  
**NT3** vg-400 reactor  
**NT3** vgr-50 reactor

- NT3 vhttr reactor  
 NT3 vidal-1 reactor  
 NT3 vidal-2 reactor  
 NT3 vrain reactor  
 NT2 htgr type reactors  
 NT3 avr reactor  
 NT3 dragon reactor  
 NT3 fulton-1 reactor  
 NT3 fulton-2 reactor  
 NT3 ga standard reactor  
 NT3 htr-10 reactor  
 NT3 httr reactor  
 NT3 kahter reactor  
 NT3 peach bottom-1 reactor  
 NT3 schmehausen-2 reactor  
 NT3 summit-1 reactor  
 NT3 summit-2 reactor  
 NT3 thtr-300 reactor  
 NT3 vg-400 reactor  
 NT3 vgr-50 reactor  
 NT3 vhttr reactor  
 NT3 vidal-1 reactor  
 NT3 vidal-2 reactor  
 NT3 vrain reactor  
 NT2 hwgr type reactors  
 NT3 bohunice a-1 reactor  
 NT3 bohunice a-2 reactor  
 NT3 el-4 reactor  
 NT3 lucens reactor  
 NT3 niederaichbach reactor  
 NT2 hydrogen cooled reactors  
 NT3 kiwi reactors  
 NT4 kiwi-tnt reactor  
 NT3 nerva reactor  
 NT3 nrx-a2 reactor  
 NT3 nrx-a3 reactor  
 NT3 nrx-a4-est reactor  
 NT3 nrx-a5 reactor  
 NT3 nrx-a6 reactor  
 NT3 pewee-1 reactor  
 NT3 pewee-2 reactor  
 NT3 pewee-3 reactor  
 NT3 pewee-4 reactor  
 NT3 phoebus-1a reactor  
 NT3 phoebus-1b reactor  
 NT3 phoebus-2a reactor  
 NT3 rover reactors  
 NT3 xe-prime reactor  
 NT2 nitrogen cooled reactors  
 NT3 htltr reactor  
 NT3 ml-1 reactor  
 NT3 zenith reactor  
 NT2 pebble bed reactors  
 NT3 avr reactor  
 NT3 thtr-300 reactor  
 NT3 vg-400 reactor  
 NT3 vgr-50 reactor  
 NT1 graphite moderated reactors  
 NT2 anna reactor  
 NT2 bepo reactor  
 NT2 bgrr reactor  
 NT2 bigr reactor  
 NT2 br-1 reactor  
 NT2 cesar reactor  
 NT2 cp-2 reactor  
 NT2 egcr reactor  
 NT2 f-1 reactor  
 NT2 ger type reactors  
 NT3 agr type reactors  
 NT4 connah quay-b reactor  
 NT4 dungeness-b reactor  
 NT4 hartlepool reactor  
 NT4 heysham-a reactor  
 NT4 heysham-b reactor  
 NT4 hinkley point-b reactor  
 NT4 hunterston-b reactor  
 NT4 torness reactor  
 NT4 wagr reactor  
 NT3 bugey-1 reactor  
 NT3 chinon-1 reactor  
 NT3 chinon-2 reactor  
 NT3 chinon-3 reactor  
 NT3 g-1 reactor  
 NT3 g-2 reactor  
 NT3 g-3 reactor  
 NT3 magnox type reactors  
 NT4 berkeley reactor  
 NT4 bradwell reactor  
 NT4 calder hall a-1 reactor  
 NT4 calder hall a-2 reactor  
 NT4 calder hall b-3 reactor  
 NT4 calder hall b-4 reactor  
 NT4 chapelcross-1 reactor  
 NT4 chapelcross-2 reactor  
 NT4 chapelcross-3 reactor  
 NT4 chapelcross-4 reactor  
 NT4 dungeness-a reactor  
 NT4 hinkley point-a reactor  
 NT4 hunterston-a reactor  
 NT4 latina reactor  
 NT4 oldbury-a reactor  
 NT4 sizewell-a reactor  
 NT4 tokai-mura reactor  
 NT4 trawsfynydd reactor  
 NT4 wylfa reactor  
 NT3 saint laurent-1 reactor  
 NT3 saint laurent-2 reactor  
 NT3 vandellos reactor  
 NT2 gleep reactor  
 NT2 hector reactor  
 NT2 hero reactor  
 NT2 hew-305 reactor  
 NT2 hitrex-1 reactor  
 NT2 hnpf reactor  
 NT2 htgr type reactors  
 NT3 avr reactor  
 NT3 dragon reactor  
 NT3 fulton-1 reactor  
 NT3 fulton-2 reactor  
 NT3 ga standard reactor  
 NT3 htr-10 reactor  
 NT3 httr reactor  
 NT3 kahter reactor  
 NT3 peach bottom-1 reactor  
 NT3 schmehausen-2 reactor  
 NT3 summit-1 reactor  
 NT3 summit-2 reactor  
 NT3 thtr-300 reactor  
 NT3 vg-400 reactor  
 NT3 vgr-50 reactor  
 NT3 vhttr reactor  
 NT3 vidal-1 reactor  
 NT3 vidal-2 reactor  
 NT3 vrain reactor  
 NT2 htltr reactor  
 NT2 iea-zpr reactor  
 NT2 igr reactor  
 NT2 iowa utr-10 reactor  
 NT2 kuca reactor  
 NT2 lwgr type reactors  
 NT3 aps reactor  
 NT3 beloyarsk-1 reactor  
 NT3 beloyarsk-2 reactor  
 NT3 bilibin reactor  
 NT3 chernobylsk-1 reactor  
 NT3 chernobylsk-2 reactor  
 NT3 chernobylsk-3 reactor  
 NT3 chernobylsk-4 reactor  
 NT3 ignalina-1 reactor  
 NT3 ignalina-2 reactor  
 NT3 kursk-1 reactor  
 NT3 kursk-2 reactor  
 NT3 kursk-3 reactor  
 NT3 kursk-4 reactor  
 NT3 leningrad-1 reactor  
 NT3 leningrad-2 reactor  
 NT3 leningrad-3 reactor  
 NT3 leningrad-4 reactor  
 NT3 n-reactor  
 NT3 rpt reactor  
 NT3 smolensk-1 reactor  
 NT3 smolensk-2 reactor  
 NT3 smolensk-3 reactor  
 NT3 uwtr reactor  
 NT2 marius reactor  
 NT2 msre reactor  
 NT2 ntr reactor  
 NT2 ptr reactor  
 NT2 proteus reactor  
 NT2 rb-1 reactor  
 NT2 sgr type reactors  
 NT3 sre reactor  
 NT2 shca reactor  
 NT2 sr-305 reactor  
 NT2 treat reactor  
 NT2 uhtrex reactor  
 NT2 windscale production reactors  
 NT2 x-10 reactor  
 NT2 zenith reactor  
 NT1 heavy water cooled reactors  
 NT2 alrr reactor  
 NT2 aquilon reactor  
 NT2 bhwr type reactors  
 NT3 hbwr reactor  
 NT3 marviken reactor  
 NT2 br-3-vn reactor  
 NT2 celestin reactor  
 NT2 cp-3 reactor  
 NT2 cp-3m reactor  
 NT2 cp-5 reactor  
 NT2 dca reactor  
 NT2 dhruva reactor  
 NT2 dido reactor  
 NT2 diorit reactor  
 NT2 dmtr reactor  
 NT2 dr-3 reactor  
 NT2 el-1 reactor  
 NT2 el-3 reactor  
 NT2 eole reactor  
 NT2 es-salam reactor  
 NT2 essor reactor  
 NT2 fr-2 reactor  
 NT2 frj-2 reactor  
 NT2 grenoble reactor  
 NT2 gtr reactor  
 NT2 hfbr reactor  
 NT2 hifar reactor  
 NT2 hwctr reactor  
 NT2 hwrr reactor  
 NT2 irr-2 reactor  
 NT2 ispra-1 reactor  
 NT2 jeep-2 reactor  
 NT2 jrr-2 reactor  
 NT2 jrr-3 reactor  
 NT2 mitr reactor  
 NT2 nbsr reactor  
 NT2 nora reactor  
 NT2 nru reactor  
 NT2 nrx reactor  
 NT2 pdp reactor  
 NT2 pelinduna reactor  
 NT2 phwr type reactors  
 NT3 agesta reactor  
 NT3 atucha-2 reactor  
 NT3 atucha reactor  
 NT3 bruce-1 reactor  
 NT3 bruce-2 reactor  
 NT3 bruce-3 reactor  
 NT3 bruce-4 reactor  
 NT3 bruce-5 reactor  
 NT3 bruce-6 reactor  
 NT3 bruce-7 reactor  
 NT3 bruce-8 reactor  
 NT3 cernavoda-1 reactor  
 NT3 cordoba reactor  
 NT3 cvtr reactor  
 NT3 darlington-1 reactor

NT3	darlington-2 reactor	NT3	kaiga-2 reactor	NT2	nrx reactor
NT3	darlington-3 reactor	NT3	kakrapar-1 reactor	NT2	p reactor
NT3	darlington-4 reactor	NT3	kakrapar-2 reactor	NT2	pdp reactor
NT3	douglas point ontario reactor	NT3	kanupp reactor	NT2	pelinduna reactor
NT3	gentilly-2 reactor	NT3	npd reactor	NT2	phwr type reactors
NT3	kaiga-1 reactor	NT3	pickering-1 reactor	NT3	agesta reactor
NT3	kaiga-2 reactor	NT3	pickering-2 reactor	NT3	atucha-2 reactor
NT3	kaiga-3 reactor	NT3	pickering-3 reactor	NT3	atucha reactor
NT3	kaiga-4 reactor	NT3	pickering-4 reactor	NT3	bruce-1 reactor
NT3	kakrapar-1 reactor	NT3	pickering-5 reactor	NT3	bruce-2 reactor
NT3	kakrapar-2 reactor	NT3	pickering-6 reactor	NT3	bruce-3 reactor
NT3	kalpakkam-1 reactor	NT3	pickering-7 reactor	NT3	bruce-4 reactor
NT3	kalpakkam-2 reactor	NT3	pickering-8 reactor	NT3	bruce-5 reactor
NT3	kanupp reactor	NT3	point lepreau-1 reactor	NT3	bruce-6 reactor
NT3	mzfr reactor	NT3	point lepreau-2 reactor	NT3	bruce-7 reactor
NT3	narora-1 reactor	NT3	qinshan-3-1 reactor	NT3	bruce-8 reactor
NT3	narora-2 reactor	NT3	qinshan-3-2 reactor	NT3	cernavoda-1 reactor
NT3	npd reactor	NT3	rajasthan-1 reactor	NT3	cordoba reactor
NT3	pickering-1 reactor	NT3	rajasthan-2 reactor	NT3	cvtr reactor
NT3	pickering-2 reactor	NT3	rajasthan-3 reactor	NT3	darlington-1 reactor
NT3	pickering-3 reactor	NT3	rajasthan-4 reactor	NT3	darlington-2 reactor
NT3	pickering-4 reactor	NT3	wolsung-1 reactor	NT3	darlington-3 reactor
NT3	pickering-5 reactor	NT3	wolsung-2 reactor	NT3	darlington-4 reactor
NT3	pickering-6 reactor	NT3	wolsung-3 reactor	NT3	douglas point ontario reactor
NT3	pickering-7 reactor	NT3	wolsung-4 reactor	NT3	gentilly-2 reactor
NT3	pickering-8 reactor	NT2	celestine reactor	NT3	kaiga-1 reactor
NT3	point lepreau-1 reactor	NT2	cirus reactor	NT3	kaiga-2 reactor
NT3	point lepreau-2 reactor	NT2	cp-3 reactor	NT3	kaiga-3 reactor
NT3	rajasthan-1 reactor	NT2	cp-3m reactor	NT3	kaiga-4 reactor
NT3	rajasthan-2 reactor	NT2	cp-5 reactor	NT3	kakrapar-1 reactor
NT3	rajasthan-3 reactor	NT2	dca reactor	NT3	kakrapar-2 reactor
NT3	rajasthan-4 reactor	NT2	dhruva reactor	NT3	kalpakkam-1 reactor
NT3	rajasthan-5 reactor	NT2	dido reactor	NT3	kalpakkam-2 reactor
NT3	rajasthan-6 reactor	NT2	dimple reactor	NT3	kanupp reactor
NT3	tarapur-3 reactor	NT2	diorit reactor	NT3	mzfr reactor
NT3	tarapur-4 reactor	NT2	dmtr reactor	NT3	narora-1 reactor
NT3	wolsung-1 reactor	NT2	dr-3 reactor	NT3	narora-2 reactor
NT3	wolsung-2 reactor	NT2	eco reactor	NT3	npd reactor
NT3	wolsung-3 reactor	NT2	el-1 reactor	NT3	pickering-1 reactor
NT3	wolsung-4 reactor	NT2	el-2 reactor	NT3	pickering-2 reactor
NT2	pik reactor	NT2	el-3 reactor	NT3	pickering-3 reactor
NT2	pluto reactor	NT2	eole reactor	NT3	pickering-4 reactor
NT2	prr reactor	NT2	es-salam reactor	NT3	pickering-5 reactor
NT2	prtr reactor	NT2	essor reactor	NT3	pickering-6 reactor
NT2	pse reactor	NT2	fr-2 reactor	NT3	pickering-7 reactor
NT2	r-1 reactor	NT2	frj-2 reactor	NT3	pickering-8 reactor
NT2	r-a reactor	NT2	frm-ii reactor	NT3	point lepreau-1 reactor
NT2	spert-2 reactor	NT2	grenoble reactor	NT3	point lepreau-2 reactor
NT2	taiwan research reactor	NT2	gtr reactor	NT3	rajasthan-1 reactor
NT2	venus reactor	NT2	hfbr reactor	NT3	rajasthan-2 reactor
NT2	zed-2 reactor	NT2	hifar reactor	NT3	rajasthan-3 reactor
NT1	heavy water moderated reactors	NT2	hre-2 reactor	NT3	rajasthan-4 reactor
NT2	alrr reactor	NT2	hwctr reactor	NT3	rajasthan-5 reactor
NT2	aquilon reactor	NT2	hwgr type reactors	NT3	rajasthan-6 reactor
NT2	bhwr type reactors	NT3	bohunice a-1 reactor	NT3	tarapur-3 reactor
NT3	hbwr reactor	NT3	bohunice a-2 reactor	NT3	tarapur-4 reactor
NT3	marviken reactor	NT3	el-4 reactor	NT3	wolsung-1 reactor
NT2	br-3-vn reactor	NT3	lucens reactor	NT3	wolsung-2 reactor
NT2	c reactor	NT3	niederaichbach reactor	NT3	wolsung-3 reactor
NT2	candu type reactors	NT2	hwlwr type reactors	NT3	wolsung-4 reactor
NT3	bruce-1 reactor	NT3	cirene reactor	NT2	pik reactor
NT3	bruce-2 reactor	NT3	gentilly reactor	NT2	pluto reactor
NT3	bruce-3 reactor	NT3	jatr reactor	NT2	prr reactor
NT3	bruce-4 reactor	NT2	hwrr reactor	NT2	prtr reactor
NT3	bruce-5 reactor	NT2	hwzpr reactor	NT2	pse reactor
NT3	bruce-6 reactor	NT2	irr-2 reactor	NT2	r-1 reactor
NT3	bruce-7 reactor	NT2	ispra-1 reactor	NT2	r-a reactor
NT3	bruce-8 reactor	NT2	jeep-2 reactor	NT2	r-b reactor
NT3	cernavoda-1 reactor	NT2	jrr-2 reactor	NT2	r reactor
NT3	cordoba reactor	NT2	jrr-3 reactor	NT2	rb-3 reactor
NT3	darlington-1 reactor	NT2	juno reactor	NT2	rtr reactor
NT3	darlington-2 reactor	NT2	k reactor	NT2	sghwr reactor
NT3	darlington-3 reactor	NT2	l reactor	NT2	spert-2 reactor
NT3	darlington-4 reactor	NT2	maple reactor	NT2	taiwan research reactor
NT3	douglas point ontario reactor	NT2	maple type reactors	NT2	tr-0 reactor
NT3	embalse reactor	NT2	mitr reactor	NT2	venus reactor
NT3	gentilly-2 reactor	NT2	nbsr reactor	NT2	wr-1 reactor
NT3	gentilly reactor	NT2	nora reactor	NT2	zed-2 reactor
NT3	kaiga-1 reactor	NT2	nru reactor	NT2	zeep reactor

- NT2** zerlina reactor  
**NT1** homogeneous reactors  
**NT2** fuel dispersion reactors  
**NT3** fluidized bed reactors  
**NT3** slurry reactors  
**NT2** gas fueled reactors  
**NT3** coaxial flow reactors  
**NT3** light bulb reactors  
**NT3** plasma core assembly  
**NT2** liquid homogeneous reactors  
**NT3** aqueous homogeneous reactors  
**NT4** ai-1-77 reactor  
**NT4** argus reactor  
**NT4** ber-2 reactor  
**NT4** byu 1-77 reactor  
**NT4** cesnef reactor  
**NT4** dr-1 reactor  
**NT4** frf reactor  
**NT4** gidra reactor  
**NT4** hre-2 reactor  
**NT4** jrr-1 reactor  
**NT4** kewb reactor  
**NT4** kstr reactor  
**NT4** ncsr-1 reactor  
**NT4** nevada university reactor  
**NT4** prnc-1-77 reactor  
**NT4** supo reactor  
**NT4** wrrr reactor  
**NT2** solid homogeneous reactors  
**NT3** acpr reactor  
**NT3** aerogjet-general nucleonics reactors  
**NT3** akr-1 reactor  
**NT3** anex reactor  
**NT3** ebor reactor  
**NT3** nsrr reactor  
**NT3** pebble bed reactors  
**NT4** avr reactor  
**NT4** thtr-300 reactor  
**NT4** vg-400 reactor  
**NT4** vgr-50 reactor  
**NT3** romashka reactor  
**NT3** shca reactor  
**NT3** sur-100 series reactor  
**NT3** treat reactor  
**NT3** triga type reactors  
**NT4** afri reactor  
**NT4** atrp reactor  
**NT4** colorado triga-mk-3 reactor  
**NT4** cornell triga-mk-2 reactor  
**NT4** dow triga-mk-1 reactor  
**NT4** fir-1 reactor  
**NT4** frf-2 reactor  
**NT4** frn reactor  
**NT4** gulf triga-mk-3 reactor  
**NT4** kartini-ppny reactor  
**NT4** lopra reactor  
**NT4** nscr reactor  
**NT4** ostr reactor  
**NT4** prpr reactor  
**NT4** pstr reactor  
**NT4** rtp reactor  
**NT4** trico reactor  
**NT4** triga-1-arizona reactor  
**NT4** triga-1-california reactor  
**NT4** triga-1-hanford reactor  
**NT4** triga-1-hanover reactor  
**NT4** triga-1-heidelberg reactor  
**NT4** triga-1-michigan reactor  
**NT4** triga-2-bandung reactor  
**NT4** triga-2-bangladesh reactor  
**NT4** triga-2-dalat reactor  
**NT4** triga-2-illinois reactor  
**NT4** triga-2-kansas reactor  
**NT4** triga-2-ljubljana reactor  
**NT4** triga-2-mainz reactor  
**NT4** triga-2-musashi reactor  
**NT4** triga-2-pavia reactor  
**NT4** triga-2-pitesti reactor  
**NT4** triga-2-reactor  
**NT4** triga-2-rome reactor  
**NT4** triga-2-seoul reactor  
**NT4** triga-2-vienna reactor  
**NT4** triga-3-la jolla reactor  
**NT4** triga-3-munich reactor  
**NT4** triga-3-salazar reactor  
**NT4** triga-3-seoul reactor  
**NT4** triga-brazil reactor  
**NT4** triga-texas reactor  
**NT4** triga-veterans reactor  
**NT4** ucbr reactor  
**NT4** uwnr reactor  
**NT4** wsur reactor  
**NT2** xma-1 reactor  
**NT1** irradiation reactors  
**NT2** chemonuclear reactors  
**NT2** isotope production reactors  
**NT3** afri reactor  
**NT3** ai-1-77 reactor  
**NT4** triga-2 reactor  
**NT4** triga-2-rikkyo reactor  
**NT4** triga-2-rome reactor  
**NT4** triga-2-seoul reactor  
**NT4** triga-2-vienna reactor  
**NT4** triga-3-la jolla reactor  
**NT4** triga-3-munich reactor  
**NT4** triga-3-salazar reactor  
**NT4** triga-3-seoul reactor  
**NT4** triga-brazil reactor  
**NT4** triga-texas reactor  
**NT4** triga-veterans reactor  
**NT4** ucbr reactor  
**NT4** uwnr reactor  
**NT4** wsur reactor  
**NT1** hydride moderated reactors  
**NT2** acpr reactor  
**NT2** anex reactor  
**NT2** nsrr reactor  
**NT2** stir reactor  
**NT2** szr type reactors  
**NT3** knk-2 reactor  
**NT3** knk reactor  
**NT2** topaz reactor  
**NT2** triga type reactors  
**NT3** afri reactor  
**NT3** atrp reactor  
**NT3** colorado triga-mk-3 reactor  
**NT3** cornell triga-mk-2 reactor  
**NT3** dow triga-mk-1 reactor  
**NT3** fir-1 reactor  
**NT3** frf-2 reactor  
**NT3** frn reactor  
**NT3** gulf triga-mk-3 reactor  
**NT3** kartini-ppny reactor  
**NT3** lopra reactor  
**NT3** nscr reactor  
**NT3** ostr reactor  
**NT3** prpr reactor  
**NT3** pstr reactor  
**NT3** rtp reactor  
**NT3** trico reactor  
**NT3** triga-1-arizona reactor  
**NT3** triga-1-california reactor  
**NT3** triga-1-hanford reactor  
**NT3** triga-1-hanover reactor  
**NT3** triga-1-heidelberg reactor  
**NT3** triga-1-michigan reactor  
**NT3** triga-2-bandung reactor  
**NT3** triga-2-bangladesh reactor  
**NT3** triga-2-dalat reactor  
**NT3** triga-2-illinois reactor  
**NT3** triga-2-kansas reactor  
**NT3** triga-2-ljubljana reactor  
**NT3** triga-2-mainz reactor  
**NT3** triga-2-musashi reactor  
**NT3** triga-2-pavia reactor  
**NT3** triga-2-pitesti reactor  
**NT3** triga-2-reactor  
**NT3** triga-2-rikkyo reactor  
**NT3** triga-2-rome reactor  
**NT3** triga-2-seoul reactor  
**NT3** triga-2-vienna reactor  
**NT3** triga-3-la jolla reactor  
**NT3** triga-3-munich reactor  
**NT3** triga-3-salazar reactor  
**NT3** triga-3-seoul reactor  
**NT3** triga-brazil reactor  
**NT3** triga-texas reactor  
**NT3** triga-veterans reactor  
**NT3** ucbr reactor  
**NT3** uwnr reactor  
**NT3** wsur reactor  
**NT3** alrr reactor  
**NT3** apsara reactor  
**NT3** astra reactor  
**NT3** atrp reactor  
**NT3** bepo reactor  
**NT3** ber-2 reactor  
**NT3** bgrr reactor  
**NT3** brr reactor  
**NT3** byu 1-77 reactor  
**NT3** celestin reactor  
**NT3** cesnef reactor  
**NT3** cirus reactor  
**NT3** consort-2 reactor  
**NT3** cp-5 reactor  
**NT3** dhruva reactor  
**NT3** dido reactor  
**NT3** dmtr reactor  
**NT3** dow triga-mk-1 reactor  
**NT3** dr-2 reactor  
**NT3** dr-3 reactor  
**NT3** el-1 reactor  
**NT3** el-2 reactor  
**NT3** el-3 reactor  
**NT3** etr reactor  
**NT3** ewa reactor  
**NT3** fir-1 reactor  
**NT3** fnr reactor  
**NT3** fr-2 reactor  
**NT3** frf reactor  
**NT3** frg-2 reactor  
**NT3** frj-2 reactor  
**NT3** getr reactor  
**NT3** gtr reactor  
**NT3** gulf triga-mk-3 reactor  
**NT3** hanaro reactor  
**NT3** hfir reactor  
**NT3** hifar reactor  
**NT3** htr reactor  
**NT3** hwrr reactor  
**NT3** ian-1 reactor  
**NT3** irt-c reactor  
**NT3** irt-f reactor  
**NT3** irt reactor  
**NT3** irt-sofia reactor  
**NT3** ispra-1 reactor  
**NT3** jeep-2 reactor  
**NT3** jrr-1 reactor  
**NT3** jrr-3 reactor  
**NT3** jrr-3m reactor  
**NT3** kuhfr reactor  
**NT3** lptr reactor  
**NT3** maria reactor  
**NT3** melusine-1 reactor  
**NT3** mnr reactor  
**NT3** mrr reactor  
**NT3** nru reactor  
**NT3** nrx reactor  
**NT3** opal reactor  
**NT3** ostr reactor  
**NT3** pulstar-buffalo reactor  
**NT3** r-1 reactor  
**NT3** r-a reactor  
**NT3** r2-0 reactor  
**NT3** rtp reactor  
**NT3** rts-1 reactor  
**NT3** siloe reactor  
**NT3** slowpoke type reactors  
**NT4** slowpoke-alberta reactor  
**NT4** slowpoke-dalhousie reactor  
**NT4** slowpoke-montreal reactor  
**NT4** slowpoke-ottawa reactor  
**NT4** slowpoke-toronto reactor  
**NT4** slowpoke-wnre reactor  
**NT3** taiwan research reactor  
**NT3** thetis reactor  
**NT3** thor reactor  
**NT3** tr-1 reactor  
**NT3** trico reactor  
**NT3** triga-1-california reactor

- NT3** triga-1-hanover reactor  
**NT3** triga-1-michigan reactor  
**NT3** triga-2-bandung reactor  
**NT3** triga-2-bangladesh reactor  
**NT3** triga-2-dalat reactor  
**NT3** triga-2-illinois reactor  
**NT3** triga-2-kansas reactor  
**NT3** triga-2-ljubljana reactor  
**NT3** triga-2-mainz reactor  
**NT3** triga-2-musashi reactor  
**NT3** triga-2-pavia reactor  
**NT3** triga-2-pitesti reactor  
**NT3** triga-2 reactor  
**NT3** triga-2-rikkyo reactor  
**NT3** triga-2-rome reactor  
**NT3** triga-2-seoul reactor  
**NT3** triga-2-vienna reactor  
**NT3** triga-3-munich reactor  
**NT3** triga-3-salazar reactor  
**NT3** triga-3-seoul reactor  
**NT3** triga-brazil reactor  
**NT3** triga-texas reactor  
**NT3** triga-veterans reactor  
**NT3** tz1 reactor  
**NT3** ucbr reactor  
**NT3** uftr reactor  
**NT3** uknr reactor  
**NT3** uvar reactor  
**NT3** uwnr reactor  
**NT3** wtr reactor  
**NT3** wwr-2 reactor  
**NT3** wwr-m-kiev reactor  
**NT3** wwr-m-leningrad reactor  
**NT3** wwr-s-budapest reactor  
**NT3** wwr-s-moscow reactor  
**NT3** wwr-sm rossendorf reactor  
**NT3** x-10 reactor  
**NT2** materials processing reactors  
**NT2** materials testing reactors  
**NT3** atr reactor  
**NT3** br-2 reactor  
**NT3** cp-2 reactor  
**NT3** dido reactor  
**NT3** dmtr reactor  
**NT3** dr-3 reactor  
**NT3** el-3 reactor  
**NT3** ewg-1 reactor  
**NT3** frg-2 reactor  
**NT3** frj-2 reactor  
**NT3** ga siwabessy reactor  
**NT3** gleep reactor  
**NT3** hanaro reactor  
**NT3** hector reactor  
**NT3** hfetr reactor  
**NT3** hfr reactor  
**NT3** hifar reactor  
**NT3** hwctr reactor  
**NT3** hwrr reactor  
**NT3** igr reactor  
**NT3** ivv-2m reactor  
**NT3** jmtr reactor  
**NT3** jrr-3 reactor  
**NT3** jrr-3m reactor  
**NT3** jules horowitz reactor  
**NT3** kstr reactor  
**NT3** lpr reactor  
**NT3** merlin reactor  
**NT3** mtr reactor  
**NT3** nbsr reactor  
**NT3** nrx reactor  
**NT3** osiris reactor  
**NT3** pbr reactor  
**NT3** pluto reactor  
**NT3** r-2 reactor  
**NT3** rv-1 reactor  
**NT3** sm-2 reactor  
**NT3** taiwan research reactor  
**NT3** triga-1-hanford reactor  
**NT3** wr-1 reactor  
**NT3** wwr-m-kiev reactor  
**NT3** wwr-m-leningrad reactor  
**NT3** zephyr reactor  
**NT2** tritium production reactors  
**NT3** celestin reactor  
**NT1** liquid metal cooled reactors  
**NT2** lithium cooled reactors  
**NT2** lmfbr type reactors  
**NT3** beloyarsk-3 reactor  
**NT3** beloyarsk-4 reactor  
**NT3** bn-1600 reactor  
**NT3** bn-350 reactor  
**NT3** bn-800 reactor  
**NT3** bor-60 reactor  
**NT3** cdfr reactor  
**NT3** clinch river breeder reactor  
**NT3** dfr reactor  
**NT3** ebr-1 reactor  
**NT3** ebr-2 reactor  
**NT3** enrico fermi-1 reactor  
**NT3** joyo reactor  
**NT3** kalpakkam lmfbr reactor  
**NT3** monju reactor  
**NT3** pfr reactor  
**NT3** phenix reactor  
**NT3** plbr reactor  
**NT3** rapsodie reactor  
**NT3** sbr-1 reactor  
**NT3** sbr-2 reactor  
**NT3** sbr-5 reactor  
**NT3** snr-2 reactor  
**NT3** snr reactor  
**NT3** super phenix reactor  
**NT2** mercury cooled reactors  
**NT3** clementine reactor  
**NT3** sbr-2 reactor  
**NT2** nak cooled reactors  
**NT3** ebr-1 reactor  
**NT3** s10fs-1 reactor  
**NT3** s10fs-3 reactor  
**NT3** s10fs-4 reactor  
**NT3** s2ds reactor  
**NT3** s8dr reactor  
**NT3** s8er reactor  
**NT3** ser reactor  
**NT3** snaptran reactors  
**NT2** potassium cooled reactors  
**NT3** ebr-1 reactor  
**NT3** ser reactor  
**NT3** snap 10 reactor  
**NT4** s10fs-1 reactor  
**NT4** s10fs-3 reactor  
**NT4** s10fs-4 reactor  
**NT3** snap-tsf reactor  
**NT3** snaptran reactors  
**NT2** sodium cooled reactors  
**NT3** beloyarsk-3 reactor  
**NT3** beloyarsk-4 reactor  
**NT3** bn-1600 reactor  
**NT3** bn-350 reactor  
**NT3** bn-800 reactor  
**NT3** bor-60 reactor  
**NT3** cdfr reactor  
**NT3** clinch river breeder reactor  
**NT3** ebr-1 reactor  
**NT3** ebr-2 reactor  
**NT3** enrico fermi-1 reactor  
**NT3** fff reactor  
**NT3** hnpf reactor  
**NT3** knk-2 reactor  
**NT3** knk reactor  
**NT3** lampre-1 reactor  
**NT3** monju reactor  
**NT3** pfr reactor  
**NT3** phenix reactor  
**NT3** rapsodie reactor  
**NT3** sbr-5 reactor  
**NT3** sefor reactor  
**NT3** ser reactor  
**NT3** sgr type reactors  
**NT4** sre reactor  
**NT3** snap 10 reactor  
**NT4** s10fs-1 reactor  
**NT4** s10fs-3 reactor  
**NT4** s10fs-4 reactor  
**NT3** snap-tsf reactor  
**NT3** snaptran reactors  
**NT3** snr-2 reactor  
**NT3** snr reactor  
**NT3** super phenix reactor  
**NT3** zrr reactor  
**NT2** szr type reactors  
**NT3** knk-2 reactor  
**NT3** knk reactor  
**NT1** metal moderated reactors  
**NT2** beryllium moderated reactors  
**NT3** agata reactor  
**NT3** br-02 reactor  
**NT3** ebor reactor  
**NT3** ewg-1 reactor  
**NT3** maria reactor  
**NT3** nuclear furnace reactor  
**NT1** mixed spectrum reactors  
**NT2** acpr reactor  
**NT2** br-3-vn reactor  
**NT2** browns ferry-1 reactor  
**NT2** browns ferry-2 reactor  
**NT2** browns ferry-3 reactor  
**NT2** diorit reactor  
**NT2** nsrr reactor  
**NT2** omre reactor  
**NT2** rpt reactor  
**NT1** mobile mercury cooled reactors  
**NT2** mh-1a reactor  
**NT2** ml-1 reactor  
**NT2** slc prototype reactor  
**NT2** space power reactors  
**NT3** snap reactors  
**NT4** snap 10 reactor  
**NT5** s10fs-1 reactor  
**NT5** s10fs-3 reactor  
**NT5** s10fs-4 reactor  
**NT4** snap 2 reactor  
**NT5** s2ds reactor  
**NT4** snap 50 reactor  
**NT4** snap 8 reactor  
**NT5** s8dr reactor  
**NT5** s8er reactor  
**NT3** space propulsion reactors  
**NT4** kiwi reactors  
**NT5** kiwi-tnt reactor  
**NT4** nerva reactor  
**NT4** nrx-a1 reactor  
**NT4** nrx-a2 reactor  
**NT4** nrx-a3 reactor  
**NT4** nrx-a4-est reactor  
**NT4** nrx-a5 reactor  
**NT4** nrx-a6 reactor  
**NT4** nrx-a7 reactor  
**NT4** pewee-1 reactor  
**NT4** pewee-2 reactor  
**NT4** pewee-3 reactor  
**NT4** pewee-4 reactor  
**NT4** phoebus-1a reactor  
**NT4** phoebus-1b reactor  
**NT4** phoebus-2a reactor  
**NT4** rover reactor  
**NT4** twmr reactor  
**NT4** xe-2 reactor  
**NT1** molten salt reactors  
**NT2** molten salt cooled reactors  
**NT3** msre reactor  
**NT2** molten salt fueled reactors  
**NT1** natural uranium reactors  
**NT2** agesta reactor  
**NT2** aquilon reactor  
**NT2** atucha-2 reactor  
**NT2** atucha reactor

- NT2 bepo reactor  
 NT2 bohunice a-1 reactor  
 NT2 bohunice a-2 reactor  
 NT2 br-1 reactor  
 NT2 bruce-1 reactor  
 NT2 bruce-2 reactor  
 NT2 bruce-3 reactor  
 NT2 bruce-4 reactor  
 NT2 bruce-5 reactor  
 NT2 bruce-6 reactor  
 NT2 bruce-7 reactor  
 NT2 bruce-8 reactor  
 NT2 cernavoda-1 reactor  
 NT2 cesar reactor  
 NT2 cirus reactor  
 NT2 cordoba reactor  
 NT2 cp-2 reactor  
 NT2 cp-3 reactor  
 NT2 darlington-1 reactor  
 NT2 darlington-2 reactor  
 NT2 darlington-3 reactor  
 NT2 darlington-4 reactor  
 NT2 dhruva reactor  
 NT2 diorit reactor  
 NT2 douglas point ontario reactor  
 NT2 eco reactor  
 NT2 el-1 reactor  
 NT2 el-2 reactor  
 NT2 essor reactor  
 NT2 f-1 reactor  
 NT2 fr-2 reactor  
 NT2 gentilly-2 reactor  
 NT2 gentilly reactor  
 NT2 gleep reactor  
 NT2 hew-305 reactor  
 NT2 hwzpr reactor  
 NT2 jatr reactor  
 NT2 jrr-3 reactor  
 NT2 kaiga-1 reactor  
 NT2 kaiga-2 reactor  
 NT2 kakrapar-1 reactor  
 NT2 kakrapar-2 reactor  
 NT2 kalpakkam-1 reactor  
 NT2 kalpakkam-2 reactor  
 NT2 kanupp reactor  
 NT2 magnox type reactors  
   NT3 berkeley reactor  
   NT3 bradwell reactor  
   NT3 calder hall a-1 reactor  
   NT3 calder hall a-2 reactor  
   NT3 calder hall b-3 reactor  
   NT3 calder hall b-4 reactor  
   NT3 chapelcross-1 reactor  
   NT3 chapelcross-2 reactor  
   NT3 chapelcross-3 reactor  
   NT3 chapelcross-4 reactor  
   NT3 dungeness-a reactor  
   NT3 hinkley point-a reactor  
   NT3 hunterston-a reactor  
   NT3 latina reactor  
   NT3 oldbury-a reactor  
   NT3 sizewell-a reactor  
   NT3 tokai-mura reactor  
   NT3 trawsfynydd reactor  
   NT3 wylfa reactor  
 NT2 marius reactor  
 NT2 mzfr reactor  
 NT2 narora-1 reactor  
 NT2 narora-2 reactor  
 NT2 npd reactor  
 NT2 nru reactor  
 NT2 nrx reactor  
 NT2 pickering-1 reactor  
 NT2 pickering-2 reactor  
 NT2 pickering-3 reactor  
 NT2 pickering-4 reactor  
 NT2 pickering-5 reactor  
 NT2 pickering-6 reactor  
 NT2 pickering-7 reactor  
 NT2 pickering-8 reactor  
 NT2 point lepreau-1 reactor  
 NT2 point lepreau-2 reactor  
 NT2 pse reactor  
 NT2 r-1 reactor  
 NT2 r-b reactor  
 NT2 rajasthan-1 reactor  
 NT2 rajasthan-2 reactor  
 NT2 rajasthan-3 reactor  
 NT2 rajasthan-4 reactor  
 NT2 taiwan research reactor  
 NT2 windscale production reactors  
 NT2 wolsung-1 reactor  
 NT2 wolsung-2 reactor  
 NT2 wolsung-3 reactor  
 NT2 wolsung-4 reactor  
 NT2 x-10 reactor  
 NT2 zed-2 reactor  
 NT2 zeep reactor  
 NT2 zephyr reactor  
 NT1 organic cooled reactors  
   NT2 eco reactor  
   NT2 eocr reactor  
   NT2 essor reactor  
   NT2 lwor type reactors  
   NT2 omr type reactors  
     NT3 arbus reactor  
     NT3 omre reactor  
     NT3 pnpf reactor  
   NT2 wr-1 reactor  
   NT2 zed-2 reactor  
 NT1 organic moderated reactors  
   NT2 akr-1 reactor  
   NT2 eocr reactor  
   NT2 omr type reactors  
     NT3 arbus reactor  
     NT3 omre reactor  
     NT3 pnpf reactor  
   NT2 rospo reactor  
   NT2 sur-100 series reactor  
   NT2 viper reactor  
   NT2 zerlina reactor  
 NT1 plutonium reactors  
   NT2 clementine reactor  
   NT2 ebr-1 reactor  
   NT2 hclwr type reactors  
   NT2 jatr reactor  
   NT2 lampre-1 reactor  
   NT2 masurca reactor  
   NT2 phenix reactor  
   NT2 prcf reactor  
   NT2 rapsodie reactor  
   NT2 sbr-1 reactor  
   NT2 sbr-2 reactor  
   NT2 sbr-5 reactor  
   NT2 sefor reactor  
   NT2 stacy reactor  
   NT2 super phenix reactor  
   NT2 tracy reactor  
   NT2 zeep reactor  
   NT2 zephyr reactor  
 NT1 power reactors  
   NT2 agesta reactor  
   NT2 aipfr reactor  
   NT2 ao-phai-1 reactor  
   NT2 aps reactor  
   NT2 arbus reactor  
   NT2 avr reactor  
   NT2 beloyarsk-1 reactor  
   NT2 beloyarsk-2 reactor  
   NT2 beloyarsk-3 reactor  
   NT2 beloyarsk-4 reactor  
   NT2 bilibin reactor  
   NT2 bn-1600 reactor  
   NT2 bn-350 reactor  
   NT2 bn-800 reactor  
   NT2 bohunice a-1 reactor  
   NT2 bohunice a-2 reactor  
   NT2 bor-60 reactor  
   NT2 borax-3 reactor  
   NT2 borax-4 reactor  
   NT2 borax-5 reactor  
   NT2 bugey-1 reactor  
   NT2 bwr type reactors  
     NT3 allens creek-1 reactor  
     NT3 allens creek-2 reactor  
     NT3 bailly-1 reactor  
     NT3 barsebaeck-1 reactor  
     NT3 barsebaeck-2 reactor  
     NT3 barton-1 reactor  
     NT3 barton-2 reactor  
     NT3 barton-3 reactor  
     NT3 barton-4 reactor  
     NT3 bell reactor  
     NT3 big rock point reactor  
     NT3 black fox-1 reactor  
     NT3 black fox-2 reactor  
     NT3 bolsa chica-1 reactor  
     NT3 bolsa chica-2 reactor  
     NT3 bonus reactor  
     NT3 browns ferry-1 reactor  
     NT3 browns ferry-2 reactor  
     NT3 browns ferry-3 reactor  
     NT3 brunsbuettel reactor  
     NT3 brunswick-1 reactor  
     NT3 brunswick-2 reactor  
     NT3 chinshan-1 reactor  
     NT3 chinshan-2 reactor  
     NT3 clinton-1 reactor  
     NT3 clinton-2 reactor  
     NT3 cofrentes reactor  
     NT3 cooper reactor  
     NT3 dodevaard reactor  
     NT3 douglas point-1 reactor  
     NT3 douglas point-2 reactor  
     NT3 dresden-1 reactor  
     NT3 dresden-2 reactor  
     NT3 dresden-3 reactor  
     NT3 duane arnold-1 reactor  
     NT3 ebwr reactor  
     NT3 enel-4 reactor  
     NT3 enrico fermi-2 reactor  
     NT3 err reactor  
     NT3 fitzpatrick reactor  
     NT3 forsmark-1 reactor  
     NT3 forsmark-2 reactor  
     NT3 forsmark-3 reactor  
     NT3 fukushima-1 reactor  
     NT3 fukushima-2 reactor  
     NT3 fukushima-3 reactor  
     NT3 fukushima-4 reactor  
     NT3 fukushima-5 reactor  
     NT3 fukushima-6 reactor  
     NT3 fukushima-ii-1 reactor  
     NT3 fukushima-ii-2 reactor  
     NT3 fukushima-ii-3 reactor  
     NT3 fukushima-ii-4 reactor  
     NT3 garigliano reactor  
     NT3 garona reactor  
     NT3 ge standard reactor  
     NT3 graben-1 reactor  
     NT3 graben-2 reactor  
     NT3 grand gulf-1 reactor  
     NT3 grand gulf-2 reactor  
     NT3 gundremmingen-2 reactor  
     NT3 gundremmingen-3 reactor  
     NT3 hamaoka-1 reactor  
     NT3 hamaoka-2 reactor  
     NT3 hamaoka-3 reactor  
     NT3 hamaoka-4 reactor  
     NT3 hamaoka-5 reactor  
     NT3 hartsville-1 reactor  
     NT3 hartsville-2 reactor  
     NT3 hartsville-3 reactor  
     NT3 hartsville-4 reactor  
     NT3 hatch-1 reactor  
     NT3 hatch-2 reactor  
     NT3 hdr reactor

NT3	hope creek-1 reactor	NT3	vermont yankee reactor	NT3	trawsfynydd reactor
NT4	newbold island-1 reactor	NT3	verplanck-1 reactor	NT3	wylfa reactor
NT3	hope creek-2 reactor	NT3	verplanck-2 reactor	NT2	marviken reactor
NT4	newbold island-2 reactor	NT3	vk-50 reactor	NT2	ml-1 reactor
NT3	humboldt bay reactor	NT3	wnp-2 reactor	NT2	monju reactor
NT3	isar reactor	NT3	wuergassen reactor	NT2	msre reactor
NT3	jpdr-2 reactor	NT3	zimmer-1 reactor	NT2	mzfr reactor
NT3	jpdr reactor	NT3	zimmer-2 reactor	NT2	n-reactor
NT3	kaiseraugst reactor	NT2	cdfr reactor	NT2	narora-1 reactor
NT3	kashiwazaki-kariwa-1 reactor	NT2	chernobylsk-1 reactor	NT2	narora-2 reactor
NT3	kashiwazaki-kariwa-2 reactor	NT2	chernobylsk-2 reactor	NT2	okg-4 reactor
NT3	kashiwazaki-kariwa-3 reactor	NT2	chernobylsk-3 reactor	NT2	oldbury-b reactor
NT3	kashiwazaki-kariwa-4 reactor	NT2	chernobylsk-4 reactor	NT2	package reactors
NT3	kashiwazaki-kariwa-5 reactor	NT2	chinon-1 reactor	NT2	peach bottom-1 reactor
NT3	kashiwazaki-kariwa-6 reactor	NT2	chinon-2 reactor	NT2	pec brasimone reactor
NT3	kashiwazaki-kariwa-7 reactor	NT2	chinon-3 reactor	NT2	perryman-1 reactor
NT3	kruemmel reactor	NT2	clinch river breeder reactor	NT2	perryman-2 reactor
NT3	kuosheng-1 reactor	NT2	connah quay-b reactor	NT2	pfr reactor
NT3	kuosheng-2 reactor	NT2	dfi reactor	NT2	phenix reactor
NT3	la salle county-1 reactor	NT2	dragon reactor	NT2	plbr reactor
NT3	la salle county-2 reactor	NT2	dungeness-b reactor	NT2	pnpf reactor
NT3	lacbwr reactor	NT2	ebor reactor	NT2	pressure tube reactors
NT3	laguna verde-1 reactor	NT2	ebr-1 reactor	NT3	atucha-2 reactor
NT3	laguna verde-2 reactor	NT2	ebr-2 reactor	NT3	atucha reactor
NT3	leibstadt reactor	NT2	egcr reactor	NT3	candu type reactors
NT3	limerick-1 reactor	NT2	enrico fermi-1 reactor	NT4	bruce-1 reactor
NT3	limerick-2 reactor	NT2	epec reactor	NT4	bruce-2 reactor
NT3	lingen reactor	NT2	escom reactor	NT4	bruce-3 reactor
NT3	mendocino-1 reactor	NT2	evsr reactor	NT4	bruce-4 reactor
NT3	mendocino-2 reactor	NT2	fessenheim-2 reactor	NT4	bruce-5 reactor
NT3	millstone-1 reactor	NT2	fulton-1 reactor	NT4	bruce-6 reactor
NT3	montague-1 reactor	NT2	fulton-2 reactor	NT4	bruce-7 reactor
NT3	montague-2 reactor	NT2	ga standard reactor	NT4	bruce-8 reactor
NT3	montalto di castro-1 reactor	NT2	gcre reactor	NT4	cernavoda-1 reactor
NT3	montalto di castro-2 reactor	NT2	ginna-2 reactor	NT4	cordoba reactor
NT3	monticello reactor	NT2	hartlepool reactor	NT4	darlington-1 reactor
NT3	muehleberg reactor	NT2	hbwr reactor	NT4	darlington-2 reactor
NT3	nine mile point-1 reactor	NT2	heysham-a reactor	NT4	darlington-3 reactor
NT3	nine mile point-2 reactor	NT2	heysham-b reactor	NT4	darlington-4 reactor
NT3	okg-1 reactor	NT2	hinkley point-b reactor	NT4	douglas point ontario reactor
NT3	okg-2 reactor	NT2	hnpf reactor	NT4	embalse reactor
NT3	okg-3 reactor	NT2	hokuriku-1 reactor	NT4	gentilly-2 reactor
NT3	olkiluoto-1 reactor	NT2	hre-2 reactor	NT4	gentilly reactor
NT3	olkiluoto-2 reactor	NT2	hunterston-b reactor	NT4	kaiga-1 reactor
NT3	onagawa-1 reactor	NT2	ignalina-1 reactor	NT4	kaiga-2 reactor
NT3	onagawa-2 reactor	NT2	ignalina-2 reactor	NT4	kakrapar-1 reactor
NT3	onagawa-3 reactor	NT2	jervis bay reactor	NT4	kakrapar-2 reactor
NT3	oyster creek-1 reactor	NT2	joyo reactor	NT4	kanupp reactor
NT3	pathfinder reactor	NT2	kaiga-3 reactor	NT4	npd reactor
NT3	peach bottom-2 reactor	NT2	kaiga-4 reactor	NT4	pickering-1 reactor
NT3	peach bottom-3 reactor	NT2	knk-2 reactor	NT4	pickering-2 reactor
NT3	perry-1 reactor	NT2	knk reactor	NT4	pickering-3 reactor
NT3	perry-2 reactor	NT2	kursk-1 reactor	NT4	pickering-4 reactor
NT3	philippsburg-1 reactor	NT2	kursk-2 reactor	NT4	pickering-5 reactor
NT3	phipps bend-1 reactor	NT2	kursk-3 reactor	NT4	pickering-6 reactor
NT3	phipps bend-2 reactor	NT2	kursk-4 reactor	NT4	pickering-7 reactor
NT3	pilgrim-1 reactor	NT2	lampre-1 reactor	NT4	pickering-8 reactor
NT3	quad cities-1 reactor	NT2	leningrad-1 reactor	NT4	point lepreau-1 reactor
NT3	quad cities-2 reactor	NT2	leningrad-2 reactor	NT4	point lepreau-2 reactor
NT3	ringhals-1 reactor	NT2	leningrad-3 reactor	NT4	qinshan-3-1 reactor
NT3	river bend-1 reactor	NT2	leningrad-4 reactor	NT4	qinshan-3-2 reactor
NT3	river bend-2 reactor	NT2	magnox type reactors	NT4	rajasthan-1 reactor
NT3	rwe-bayernwerk reactor	NT3	berkeley reactor	NT4	rajasthan-2 reactor
NT3	shika-1 reactor	NT3	bradwell reactor	NT4	rajasthan-3 reactor
NT3	shimane-1 reactor	NT3	calder hall a-1 reactor	NT4	rajasthan-4 reactor
NT3	shimane-2 reactor	NT3	calder hall a-2 reactor	NT4	wolsung-1 reactor
NT3	shoreham reactor	NT3	calder hall b-3 reactor	NT4	wolsung-2 reactor
NT3	skagit-1 reactor	NT3	calder hall b-4 reactor	NT4	wolsung-3 reactor
NT3	skagit-2 reactor	NT3	chapelcross-1 reactor	NT4	wolsung-4 reactor
NT3	sl-1 reactor	NT3	chapelcross-2 reactor	NT3	cirene reactor
NT3	susquehanna-1 reactor	NT3	chapelcross-3 reactor	NT3	cvtr reactor
NT3	susquehanna-2 reactor	NT3	chapelcross-4 reactor	NT3	el-4 reactor
NT3	tarapur-1 reactor	NT3	dungeness-a reactor	NT3	jatr reactor
NT3	tarapur-2 reactor	NT3	hinkley point-a reactor	NT3	kalpakkam-1 reactor
NT3	tokai-2 reactor	NT3	hunterston-a reactor	NT3	kalpakkam-2 reactor
NT3	tsuruga reactor	NT3	latina reactor	NT3	lucens reactor
NT3	tullnerfeld reactor	NT3	oldbury-a reactor	NT3	niederaichbach reactor
NT3	vak reactor	NT3	sizewell-a reactor	NT3	prtr reactor
NT3	vbwr reactor	NT3	tokai-mura reactor	NT3	sghwr reactor

NT2	propulsion reactors	NT3	byron-2 reactor	NT3	haven-1 reactor
NT3	aircraft propulsion reactors	NT3	calhoun-1 reactor	NT4	koshkonong-1 reactor
NT4	xma-1 reactor	NT3	calhoun-2 reactor	NT3	haven-2 reactor
NT3	ship propulsion reactors	NT3	callaway-1 reactor	NT4	koshkonong-2 reactor
NT4	efdr-50 reactor	NT3	callaway-2 reactor	NT3	ikata-2 reactor
NT4	lenin reactor	NT3	calvert cliffs-1 reactor	NT3	ikata-3 reactor
NT4	leonid brezhnev reactor	NT3	calvert cliffs-2 reactor	NT3	ikata reactor
NT4	mutsu reactor	NT3	catawba-1 reactor	NT3	indian point-1 reactor
NT4	otto hahn reactor	NT3	catawba-2 reactor	NT3	indian point-2 reactor
NT4	savannah reactor	NT3	cattenom-1 reactor	NT3	indian point-3 reactor
NT4	sibir reactor	NT3	cattenom-2 reactor	NT3	iran-1 reactor
NT3	space propulsion reactors	NT3	cattenom-3 reactor	NT3	iran-2 reactor
NT4	kiwi reactors	NT3	cattenom-4 reactor	NT3	isar-2 reactor
NT5	kiwi-tnt reactor	NT3	ce standard reactor	NT3	jamesport-1 reactor
NT4	nerva reactor	NT3	cherokee-1 reactor	NT3	jamesport-2 reactor
NT4	nrx-a1 reactor	NT3	cherokee-2 reactor	NT3	kewaunee reactor
NT4	nrx-a2 reactor	NT3	cherokee-3 reactor	NT3	koeborg-1 reactor
NT4	nrx-a3 reactor	NT3	chinon-b1 reactor	NT3	koeborg-2 reactor
NT4	nrx-a4-est reactor	NT3	civaux-1 reactor	NT3	kori-1 reactor
NT4	nrx-a5 reactor	NT3	civaux-2 reactor	NT3	kori-2 reactor
NT4	nrx-a6 reactor	NT3	comanche peak-1 reactor	NT3	kori-3 reactor
NT4	nrx-a7 reactor	NT3	comanche peak-2 reactor	NT3	kori-4 reactor
NT4	pewee-1 reactor	NT3	connecticut yankee reactor	NT3	krsko reactor
NT4	pewee-2 reactor	NT3	cook-1 reactor	NT3	lemoniz-1 reactor
NT4	pewee-3 reactor	NT3	cook-2 reactor	NT3	lemoniz-2 reactor
NT4	pewee-4 reactor	NT3	cruas-2 reactor	NT3	lenin reactor
NT4	phoebus-1a reactor	NT3	cruas-3 reactor	NT3	leonid brezhnev reactor
NT4	phoebus-1b reactor	NT3	cruas-4 reactor	NT3	lingao-1 reactor
NT4	phoebus-2a reactor	NT3	crystal river-3 reactor	NT3	lingao-2 reactor
NT4	rover reactors	NT3	crystal river-4 reactor	NT3	loft reactor
NT4	twmr reactor	NT3	dampierre-1 reactor	NT3	lucie-1 reactor
NT4	xe-2 reactor	NT3	dampierre-2 reactor	NT3	lucie-2 reactor
NT3	tory-2a reactor	NT3	dampierre-3 reactor	NT3	maanshan-1 reactor
NT3	tory-2c reactor	NT3	dampierre-4 reactor	NT3	maine yankee reactor
NT3	xe-prime reactor	NT3	davis besse-1 reactor	NT3	malibu-1 reactor
NT2	pwr type reactors	NT3	davis besse-2 reactor	NT3	marble hill-1 reactor
NT3	aguirre reactor	NT3	davis besse-3 reactor	NT3	marble hill-2 reactor
NT3	almaz-1 reactor	NT3	daya bay-1 reactor	NT3	mc guire-1 reactor
NT3	almaz-2 reactor	NT3	daya bay-2 reactor	NT3	mc guire-2 reactor
NT3	angra-1 reactor	NT3	diablo canyon-1 reactor	NT3	mh-1a reactor
NT3	angra-2 reactor	NT3	diablo canyon-2 reactor	NT3	midland-1 reactor
NT3	angra-3 reactor	NT3	doel-1 reactor	NT3	midland-2 reactor
NT3	ardennes b-1 reactor	NT3	doel-2 reactor	NT3	mihama-1 reactor
NT3	ardennes b-2 reactor	NT3	doel-3 reactor	NT3	mihama-2 reactor
NT3	ardennes reactor	NT3	doel-4 reactor	NT3	mihama-3 reactor
NT3	arkansas-1 reactor	NT3	efdr-50 reactor	NT3	millstone-2 reactor
NT3	arkansas-2 reactor	NT3	emsland reactor	NT3	millstone-3 reactor
NT3	asco-1 reactor	NT3	erie-1 reactor	NT3	muelheim-kaerlich reactor
NT3	asco-2 reactor	NT3	erie-2 reactor	NT3	mutsu reactor
NT3	atlantic-1 reactor	NT3	farley-1 reactor	NT3	neckar-1 reactor
NT3	atlantic-2 reactor	NT3	farley-2 reactor	NT3	neckar-2 reactor
NT3	basf-1 reactor	NT3	fessenheim-1 reactor	NT3	nep-1 reactor
NT3	basf-2 reactor	NT3	flamanville-1 reactor	NT3	nep-2 reactor
NT3	beaver valley-1 reactor	NT3	flamanville-2 reactor	NT3	neupotz-1 reactor
NT3	beaver valley-2 reactor	NT3	forked river-1 reactor	NT3	neupotz-2 reactor
NT3	bellefonte-1 reactor	NT3	genkai-1 reactor	NT3	nogent sur seine-1 reactor
NT3	bellefonte-2 reactor	NT3	genkai-2 reactor	NT3	nogent sur seine-2 reactor
NT3	belleville sur loire-1 reactor	NT3	genkai-3 reactor	NT3	north anna-1 reactor
NT3	belleville sur loire-2 reactor	NT3	genkai-4 reactor	NT3	north anna-2 reactor
NT3	beznau-1 reactor	NT3	ginna-1 reactor	NT3	north anna-3 reactor
NT3	beznau-2 reactor	NT3	goesgen reactor	NT3	north anna-4 reactor
NT3	biblis-1 reactor	NT3	golfech-1 reactor	NT3	north coast-1 reactor
NT3	biblis-2 reactor	NT3	golfech-2 reactor	NT3	obrigheim reactor
NT3	biblis-3 reactor	NT3	grafenhainfeld reactor	NT3	oconee-1 reactor
NT3	biblis-4 reactor	NT3	gravelines-1 reactor	NT3	oconee-2 reactor
NT3	blayais-1 reactor	NT3	gravelines-2 reactor	NT3	oconee-3 reactor
NT3	blue hills-1 reactor	NT3	gravelines-3 reactor	NT3	oi-1 reactor
NT3	blue hills-2 reactor	NT3	gravelines-4 reactor	NT3	oi-2 reactor
NT3	borssele reactor	NT3	gravelines-5 reactor	NT3	oi-3 reactor
NT3	br-3 reactor	NT3	gravelines-6 reactor	NT3	oi-4 reactor
NT3	braidwood-1 reactor	NT3	greene county reactor	NT3	oktembryan-2 reactor
NT3	braidwood-2 reactor	NT3	greenwood-2 reactor	NT3	olkiluoto-3 reactor
NT3	brokdorf reactor	NT3	greenwood-3 reactor	NT3	otto hahn reactor
NT3	bugey-2 reactor	NT3	grohnde reactor	NT3	palisades-1 reactor
NT3	bugey-3 reactor	NT3	hamm-uentrop reactor	NT3	palo verde-1 reactor
NT3	bugey-4 reactor	NT3	harris-1 reactor	NT3	palo verde-2 reactor
NT3	bugey-5 reactor	NT3	harris-2 reactor	NT3	palo verde-3 reactor
NT3	bw standard reactor	NT3	harris-3 reactor	NT3	palo verde-4 reactor
NT3	byron-1 reactor	NT3	harris-4 reactor	NT3	palo verde-5 reactor



- NT3** paluel-1 reactor  
**NT3** paluel-2 reactor  
**NT3** paluel-3 reactor  
**NT3** paluel-4 reactor  
**NT3** pat reactor  
**NT3** pebble springs-1 reactor  
**NT3** pebble springs-2 reactor  
**NT3** penly-1 reactor  
**NT3** perkins-1 reactor  
**NT3** perkins-2 reactor  
**NT3** perkins-3 reactor  
**NT3** philippsburg-2 reactor  
**NT3** pilgrim-2 reactor  
**NT3** pilgrim-3 reactor  
**NT3** pm-2a reactor  
**NT3** pm-3a reactor  
**NT3** pnpp-1 reactor  
**NT3** point beach-1 reactor  
**NT3** point beach-2 reactor  
**NT3** prairie island-1 reactor  
**NT3** prairie island-2 reactor  
**NT3** qinshan-1 reactor  
**NT3** qinshan-2-1 reactor  
**NT3** qinshan-2-2 reactor  
**NT3** quanicasse-1 reactor  
**NT3** quanicasse-2 reactor  
**NT3** rancho seco-1 reactor  
**NT3** remerschen reactor  
**NT3** rheinsberg akw1 reactor  
**NT3** ringhals-2 reactor  
**NT3** ringhals-3 reactor  
**NT3** ringhals-4 reactor  
**NT3** robinson-2 reactor  
**NT3** rooppur reactor  
**NT3** rowe yankee reactor  
**NT3** slc prototype reactor  
**NT3** saint alban-1 reactor  
**NT3** saint alban-2 reactor  
**NT3** saint laurent-b1 reactor  
**NT3** salem-1 reactor  
**NT3** salem-2 reactor  
**NT3** san onofre-1 reactor  
**NT3** san onofre-2 reactor  
**NT3** san onofre-3 reactor  
**NT3** savannah reactor  
**NT3** saxton reactor  
**NT3** seabrook-1 reactor  
**NT3** seabrook-2 reactor  
**NT3** selni reactor  
**NT3** sendai-1 reactor  
**NT3** sendai-2 reactor  
**NT3** sequoyah-1 reactor  
**NT3** sequoyah-2 reactor  
**NT3** shippingport reactor  
**NT3** sizewell-b reactor  
**NT3** sm-1 reactor  
**NT3** sm-1a reactor  
**NT3** south texas project-1 reactor  
**NT3** south texas project-2 reactor  
**NT3** stade reactor  
**NT3** sterling-1 reactor  
**NT3** sterling-2 reactor  
**NT3** summer-1 reactor  
**NT3** sundesert-1 reactor  
**NT3** sundesert-2 reactor  
**NT3** surry-1 reactor  
**NT3** surry-2 reactor  
**NT3** surry-3 reactor  
**NT3** surry-4 reactor  
**NT3** takahama-1 reactor  
**NT3** takahama-2 reactor  
**NT3** takahama-3 reactor  
**NT3** takahama-4 reactor  
**NT3** three mile island-1 reactor  
**NT3** three mile island-2 reactor  
**NT3** tihange-2 reactor  
**NT3** tihange-3 reactor  
**NT3** tihange reactor  
**NT3** tomari-1 reactor  
**NT3** tomari-2 reactor  
**NT3** tricastin-1 reactor  
**NT3** tricastin-4 reactor  
**NT3** trillo-1 reactor  
**NT3** trojan reactor  
**NT3** tsuruga-2 reactor  
**NT3** turkey point-3 reactor  
**NT3** turkey point-4 reactor  
**NT3** tva-1 reactor  
**NT3** tva-2 reactor  
**NT3** tyrone-1 reactor  
**NT3** tyrone-2 reactor  
**NT3** ulchin-1 reactor  
**NT3** ulchin-2 reactor  
**NT3** ulchin-3 reactor  
**NT3** ulchin-4 reactor  
**NT3** unterweser reactor  
**NT3** vahnum-1 reactor  
**NT3** vahnum-2 reactor  
**NT3** vandellos-2 reactor  
**NT3** vogtle-1 reactor  
**NT3** vogtle-2 reactor  
**NT3** vogtle-3 reactor  
**NT3** vogtle-4 reactor  
**NT3** waterford-3 reactor  
**NT3** waterford-4 reactor  
**NT3** watts bar-1 reactor  
**NT3** watts bar-2 reactor  
**NT3** westinghouse standard reactor  
**NT3** wnp-1 reactor  
**NT3** wnp-3 reactor  
**NT3** wnp-4 reactor  
**NT3** wnp-5 reactor  
**NT3** wolf creek-1 reactor  
**NT3** wup-3 reactor  
**NT3** wup-4 reactor  
**NT3** wup-5 reactor  
**NT3** wup-6 reactor  
**NT3** wwver type reactors  
**NT4** armenian-1 reactor  
**NT4** armenian-2 reactor  
**NT4** balakovo-1 reactor  
**NT4** balakovo-2 reactor  
**NT4** balakovo-3 reactor  
**NT4** balakovo-4 reactor  
**NT4** blahutovice-1 reactor  
**NT4** bohunice v-1 reactor  
**NT4** bohunice v-2 reactor  
**NT4** dukovany-1 reactor  
**NT4** dukovany-2 reactor  
**NT4** dukovany-3 reactor  
**NT4** dukovany-4 reactor  
**NT4** greifswald-1 reactor  
**NT4** greifswald-2 reactor  
**NT4** greifswald-3 reactor  
**NT4** greifswald-4 reactor  
**NT4** greifswald-5 reactor  
**NT4** greifswald-6 reactor  
**NT4** juragua-1 reactor  
**NT4** kalinin-1 reactor  
**NT4** kalinin-3 reactor  
**NT4** kecerovce-1 reactor  
**NT4** khmel'nitskij-1 reactor  
**NT4** kola-1 reactor  
**NT4** kola-2 reactor  
**NT4** kola-3 reactor  
**NT4** kola-4 reactor  
**NT4** kozloduy-1 reactor  
**NT4** kozloduy-2 reactor  
**NT4** kozloduy-3 reactor  
**NT4** kozloduy-4 reactor  
**NT4** kozloduy-5 reactor  
**NT4** kozloduy-6 reactor  
**NT4** kudankulam-1 reactor  
**NT4** kudankulam-2 reactor  
**NT4** loviisa-1 reactor  
**NT4** loviisa-2 reactor  
**NT4** mochovce-1 reactor  
**NT4** mochovce-2 reactor  
**NT4** novovoronezh-1 reactor  
**NT4** novovoronezh-2 reactor  
**NT4** novovoronezh-3 reactor  
**NT4** novovoronezh-4 reactor  
**NT4** novovoronezh-5 reactor  
**NT4** paks-1 reactor  
**NT4** paks-2 reactor  
**NT4** paks-3 reactor  
**NT4** paks-4 reactor  
**NT4** rovno-1 reactor  
**NT4** rovno-2 reactor  
**NT4** rovno-3 reactor  
**NT4** rovno-4 reactor  
**NT4** rovno-5 reactor  
**NT4** south ukrainian-1 reactor  
**NT4** south ukrainian-2 reactor  
**NT4** south ukrainian-3 reactor  
**NT4** stendal-1 reactor  
**NT4** tatarian reactor  
**NT4** temelin-1 reactor  
**NT4** temelin-2 reactor  
**NT4** tianwan-1 reactor  
**NT4** zaporozhe-1 reactor  
**NT4** zaporozhe-2 reactor  
**NT4** zaporozhe-3 reactor  
**NT4** zaporozhe-4 reactor  
**NT4** zaporozhe-5 reactor  
**NT4** zaporozhe-6 reactor  
**NT3** wyhl-1 reactor  
**NT3** wyhl-2 reactor  
**NT3** yellow creek-1 reactor  
**NT3** yellow creek-2 reactor  
**NT3** yonggwang-1 reactor  
**NT3** yonggwang-2 reactor  
**NT3** yonggwang-3 reactor  
**NT3** yonggwang-4 reactor  
**NT3** zion-1 reactor  
**NT3** zion-2 reactor  
**NT3** zorita-1 reactor  
**NT2** rajasthan-5 reactor  
**NT2** rajasthan-6 reactor  
**NT2** rancho seco-2 reactor  
**NT2** saint laurent-1 reactor  
**NT2** saint laurent-2 reactor  
**NT2** schmehausen-2 reactor  
**NT2** sefor reactor  
**NT2** smolensk-1 reactor  
**NT2** smolensk-2 reactor  
**NT2** smolensk-3 reactor  
**NT2** snr-2 reactor  
**NT2** snr reactor  
**NT2** space power reactors  
**NT3** snap reactors  
**NT4** snap 10 reactor  
**NT5** s10fs-1 reactor  
**NT5** s10fs-3 reactor  
**NT5** s10fs-4 reactor  
**NT4** snap 2 reactor  
**NT5** s2ds reactor  
**NT4** snap 50 reactor  
**NT4** snap 8 reactor  
**NT5** s8dr reactor  
**NT5** s8er reactor  
**NT3** space propulsion reactors  
**NT4** kiwi reactors  
**NT5** kiwi-tnt reactor  
**NT4** nerva reactor  
**NT4** nrx-a1 reactor  
**NT4** nrx-a2 reactor  
**NT4** nrx-a3 reactor  
**NT4** nrx-a4-est reactor  
**NT4** nrx-a5 reactor  
**NT4** nrx-a6 reactor  
**NT4** nrx-a7 reactor  
**NT4** pewee-1 reactor  
**NT4** pewee-2 reactor  
**NT4** pewee-3 reactor  
**NT4** pewee-4 reactor  
**NT4** phoebus-1a reactor

NT4	phoebus-1b reactor	NT2	ostr reactor	NT3	kiwi-tnt reactor
NT4	phoebus-2a reactor	NT2	pbf reactor	NT3	knk-2 reactor
NT4	rover reactors	NT2	sora reactor	NT3	knk reactor
NT4	twmr reactor	NT2	spr-2 reactor	NT3	lampre-1 reactor
NT4	xe-2 reactor	NT2	spr-3 reactor	NT3	mh-1a reactor
NT2	sre reactor	NT2	spr-4 reactor	NT3	mir reactor
NT2	summit-1 reactor	NT2	super kukla reactor	NT3	msre reactor
NT2	summit-2 reactor	NT2	tibr reactor	NT3	nrx-a1 reactor
NT2	tarapur-3 reactor	NT2	triga-1-california reactor	NT3	nrx-a2 reactor
NT2	tarapur-4 reactor	NT2	triga-1-michigan reactor	NT3	nrx-a3 reactor
NT2	thermionic reactors	NT2	triga-2-bangladesh reactor	NT3	nrx-a4-est reactor
NT2	thermoelectric reactors	NT2	triga-2-illinois reactor	NT3	nrx-a5 reactor
NT2	thtr-300 reactor	NT2	triga-2-kansas reactor	NT3	nrx-a6 reactor
NT2	topaz reactor	NT2	triga-2-mainz reactor	NT3	nrx-a7 reactor
NT2	torness reactor	NT2	triga-2-pavia reactor	NT3	omre reactor
NT2	vandellos reactor	NT2	triga-2-pitesti reactor	NT3	opal reactor
NT2	vg-400 reactor	NT2	triga-3-munich reactor	NT3	rover reactors
NT2	vgr-50 reactor	NT2	triga-texas reactor	NT3	sefor reactor
NT2	vhtr reactor	NT2	ucbrr reactor	NT3	spert-1 reactor
NT2	vidal-1 reactor	NT2	viper reactor	NT3	spert-2 reactor
NT2	vidal-2 reactor	NT2	wsur reactor	NT3	spert-3 reactor
NT2	vrain reactor	NT2	xapr reactor	NT3	spert-4 reactor
NT2	wagr reactor	NT1	research and test reactors	NT3	sre reactor
NT1	process heat reactors	NT2	argonaut type reactors	NT3	subcritical assemblies
NT2	agesta reactor	NT3	aeg-pr-10 reactor	NT4	pse reactor
NT2	midland-1 reactor	NT3	arbi reactor	NT4	stsf assembly
NT2	midland-2 reactor	NT3	argonaut reactor	NT3	topaz reactor
NT2	nhr-5 reactor	NT3	argos reactor	NT3	tory-2a reactor
NT2	pm-2a reactor	NT3	athene reactor	NT3	tory-2c reactor
NT2	ser reactor	NT3	jason reactor	NT3	treat reactor
NT2	sl-1 reactor	NT3	lfr reactor	NT3	tz1 reactor
NT2	slowpoke-wmre reactor	NT3	moata reactor	NT3	tz2 reactor
NT2	sm-1a reactor	NT3	nestor reactor	NT3	uhtrex reactor
NT2	snap 10 reactor	NT3	queen mary college utr-b reactor	NT3	venus reactor
NT3	s10fs-1 reactor	NT3	ra-1 reactor	NT3	vhtr reactor
NT3	s10fs-3 reactor	NT3	rb-2 reactor	NT3	xe-2 reactor
NT3	s10fs-4 reactor	NT3	rien-1 reactor	NT3	xe-prime reactor
NT2	snap-tsfr reactor	NT3	src-utr-100 reactor	NT3	xma-1 reactor
NT2	thermos reactor	NT3	stark reactor	NT3	zero power reactors
NT1	production reactors	NT3	strasbourg-cronenbourg reactor	NT4	agata reactor
NT2	plutonium production reactors	NT3	ufr reactor	NT4	akr-1 reactor
NT3	calder hall a-1 reactor	NT3	ulyse reactor	NT4	anex reactor
NT3	calder hall a-2 reactor	NT3	urr reactor	NT4	anna reactor
NT3	calder hall b-3 reactor	NT3	utr-10-kinki reactor	NT4	apfa-3 reactor
NT3	calder hall b-4 reactor	NT3	vpi-utr-10 reactor	NT4	aquilon reactor
NT3	chapelcross-1 reactor	NT2	experimental reactors	NT4	bfs reactor
NT3	chapelcross-2 reactor	NT3	aps reactor	NT4	big ten reactor
NT3	chapelcross-3 reactor	NT3	arbus reactor	NT4	cfmrf reactor
NT3	chapelcross-4 reactor	NT3	atrc reactor	NT4	cml reactor
NT3	g-1 reactor	NT3	bilibin reactor	NT4	coral-1 reactor
NT3	g-2 reactor	NT3	bor-60 reactor	NT4	crocus reactor
NT3	g-3 reactor	NT3	borax-1 reactor	NT4	dca reactor
NT3	hanford production reactors	NT3	borax-2 reactor	NT4	dimple reactor
NT3	n-reactor	NT3	borax-3 reactor	NT4	ecel reactor
NT3	windscale production reactors	NT3	borax-4 reactor	NT4	ermine reactor
NT2	rtr reactor	NT3	br-3-vn reactor	NT4	etrc reactor
NT2	special production reactors	NT3	cefr reactor	NT4	fca reactor
NT3	c reactor	NT3	cesar reactor	NT4	flattop reactor
NT3	k reactor	NT3	dfr reactor	NT4	fr-0 reactor
NT3	l reactor	NT3	dragon reactor	NT4	godiva reactor
NT3	p reactor	NT3	ebr-1 reactor	NT4	hero reactor
NT3	r reactor	NT3	ebr-2 reactor	NT4	hitrex-1 reactor
NT2	sr-305 reactor	NT3	ebwr reactor	NT4	horace reactor
NT1	pulsed reactors	NT3	egcr reactor	NT4	hwzpr reactor
NT2	acpr reactor	NT3	el-1 reactor	NT4	iea-zpr reactor
NT2	aprf reactor	NT3	eocr reactor	NT4	ifr reactor
NT2	atpr reactor	NT3	esada-vesr reactor	NT4	ipen-mb-1 reactor
NT2	bigr reactor	NT3	ewg-1 reactor	NT4	jezebel reactor
NT2	bir reactor	NT3	gcre reactor	NT4	juno reactor
NT2	fbrf reactor	NT3	hbwr reactor	NT4	kahter reactor
NT2	fir-1 reactor	NT3	hdr reactor	NT4	kbr-1 reactor
NT2	gidra reactor	NT3	hre-2 reactor	NT4	kritz reactor
NT2	hector reactor	NT3	htr-10 reactor	NT4	kuca reactor
NT2	hpr reactor	NT3	httr reactor	NT4	lptf reactor
NT2	ibr-2 reactor	NT3	igr reactor	NT4	lr-0 reactor
NT2	ibr-30 reactor	NT3	ir-100 reactor	NT4	lvr-15 reactor
NT2	igr reactor	NT3	joyo reactor	NT4	marius reactor
NT2	kalpakkam pfr reactor	NT3	jpdr reactor	NT4	maryla reactor
NT2	nsrr reactor	NT3	jules horowitz reactor	NT4	masurca reactor

NT4	minerve reactor	NT3	avogadro rs-1 reactor	NT3	hfr reactor
NT4	neptune reactor	NT3	barn reactor	NT3	hifar reactor
NT4	nsf-rfp reactor	NT3	bepo reactor	NT3	hor reactor
NT4	or-cef reactor	NT3	ber-2 reactor	NT3	horace reactor
NT4	ornl-pca reactor	NT3	bgrr reactor	NT3	hpr reactor
NT4	parka reactor	NT3	bigr reactor	NT3	hre-2 reactor
NT4	pdp reactor	NT3	bir reactor	NT3	htl reactor
NT4	peggy reactor	NT3	br-02 reactor	NT3	htr reactor
NT4	pelinduna reactor	NT3	br-1 reactor	NT3	hwrr reactor
NT4	plasma core assembly	NT3	brr reactor	NT3	ian-r1 reactor
NT4	prf reactor	NT3	bsr-1 reactor	NT3	ibr-2 reactor
NT4	ptf-unc reactor	NT3	bsr-2 reactor	NT3	ibr-30 reactor
NT4	purnima-2 reactor	NT3	byu 1-77 reactor	NT3	iea-zpr reactor
NT4	purnima reactor	NT3	cabri reactor	NT3	iear-1 reactor
NT4	r-b reactor	NT3	cesar reactor	NT3	irl reactor
NT4	ra-0 reactor	NT3	cesnef reactor	NT3	irr-1 reactor
NT4	ra-2 reactor	NT3	cirus reactor	NT3	irr-2 reactor
NT4	ra-8 reactor	NT3	clementine reactor	NT3	irt-1 libya reactor
NT4	rake-2 reactor	NT3	consort-2 reactor	NT3	irt-2000 djakarta reactor
NT4	rb-1 reactor	NT3	coral-1 reactor	NT3	irt-2000 moscow reactor
NT4	rb-3 reactor	NT3	cp-2 reactor	NT3	irt-baghdad reactor
NT4	rensselaer critical facility	NT3	cp-3 reactor	NT3	irt-c reactor
NT4	ritmo reactor	NT3	cp-3m reactor	NT3	irt-f reactor
NT4	rospo reactor	NT3	cp-5 reactor	NT3	irt-m reactor
NT4	saref reactor	NT3	cp-6 reactor	NT3	irt reactor
NT4	shca reactor	NT3	crocus reactor	NT3	irt-sofia reactor
NT4	silene reactor	NT3	democritus reactor	NT3	isis reactor
NT4	siloette reactor	NT3	dhuva reactor	NT3	ispra-1 reactor
NT4	sneak reactor	NT3	dido reactor	NT3	ivv-2m reactor
NT4	split table reactor	NT3	diorit reactor	NT3	ivv-7 reactor
NT4	sr-0a reactor	NT3	dmitr reactor	NT3	janus reactor
NT4	stacy reactor	NT3	dow triga-mk-1 reactor	NT3	jason reactor
NT4	tca reactor	NT3	dr-1 reactor	NT3	jeep-2 reactor
NT4	tr-0 reactor	NT3	dr-2 reactor	NT3	jen-1 reactor
NT4	tracy reactor	NT3	dr-3 reactor	NT3	jen-2 reactor
NT4	vera reactor	NT3	ebor reactor	NT3	jen reactor
NT4	zebra reactor	NT3	ebr-1 reactor	NT3	jmr reactor
NT4	zeep reactor	NT3	eco reactor	NT3	jrr-1 reactor
NT4	zenith reactor	NT3	el-1 reactor	NT3	jrr-2 reactor
NT4	zephyr reactor	NT3	el-2 reactor	NT3	jrr-3 reactor
NT4	zerlina reactor	NT3	el-3 reactor	NT3	jrr-3m reactor
NT4	zlfr reactor	NT3	eocr reactor	NT3	jrr-4 reactor
NT4	zppr reactor	NT3	eole reactor	NT3	juno reactor
NT4	zpr-3 reactor	NT3	es-salam reactor	NT3	kartini-ppny reactor
NT4	zpr-6 reactor	NT3	etr reactor	NT3	king reactor
NT4	zpr-9 reactor	NT3	etr reactor	NT3	kstr reactor
NT4	zpr reactor	NT3	etr-1 reactor	NT3	kuhfr reactor
NT4	zr-6 reactor	NT3	etr-2 reactor	NT3	kur reactor
NT3	zrr reactor	NT3	ewa reactor	NT3	la reina rech-1 reactor
NT2	kalpakkam pfr reactor	NT3	f-1 reactor	NT3	lfr reactor
NT2	kamini reactor	NT3	fbrf reactor	NT3	lido reactor
NT2	maple reactor	NT3	fftf reactor	NT3	lo aguirre rech-2 reactor
NT2	maple type reactors	NT3	fir-1 reactor	NT3	lpr reactor
NT2	maria reactor	NT3	fmr reactor	NT3	lptr reactor
NT2	nuclear furnace reactor	NT3	fnr reactor	NT3	ltir reactor
NT2	purnima-3 reactor	NT3	fr-0 reactor	NT3	lvr-15 reactor
NT2	research reactors	NT3	fr-2 reactor	NT3	maris reactor
NT3	aarr reactor	NT3	frf reactor	NT3	maryla reactor
NT3	acpr reactor	NT3	frg-1 reactor	NT3	melusine-1 reactor
NT3	aeg-pr-10 reactor	NT3	frg-2 reactor	NT3	merlin reactor
NT3	aerojet-general nucleonics reactors	NT3	frj-1 reactor	NT3	minerve reactor
NT3	afri reactor	NT3	frj-2 reactor	NT3	mitr reactor
NT3	afsr reactor	NT3	frm-ii reactor	NT3	mnr reactor
NT3	agata reactor	NT3	frm reactor	NT3	mnsr type reactors
NT3	ai-1-77 reactor	NT3	ga siwabessy reactor	NT4	gharr-1 reactor
NT3	alrr reactor	NT3	gidra reactor	NT4	mnsr-ciae reactor
NT3	anna reactor	NT3	gleep reactor	NT4	mnsr-sd reactor
NT3	aprf reactor	NT3	grenoble reactor	NT4	mnsr-sh reactor
NT3	apsara reactor	NT3	gtr reactor	NT4	mnsr-sz reactor
NT3	arbi reactor	NT3	gulf triga-mk-3 reactor	NT4	nirr-1 reactor
NT3	argonaut reactor	NT3	hanaro reactor	NT4	parr-2 reactor
NT3	argos reactor	NT3	harmonie reactor	NT4	srr-1 reactor
NT3	argus reactor	NT3	hector reactor	NT3	moata reactor
NT3	armf-1 reactor	NT3	herald reactor	NT3	mr reactor
NT3	astra reactor	NT3	hero reactor	NT3	mrr reactor
NT3	athene reactor	NT3	hew-305 reactor	NT3	murr reactor
NT3	atpr reactor	NT3	hfbr reactor	NT3	nbsr reactor
NT3	atsr reactor	NT3	hfir reactor	NT3	nscr-1 reactor
				NT3	nestor reactor

NT3	nhr-5 reactor	NT3	toshiba reactor	NT3	hanaro reactor
NT3	nora reactor	NT3	tr-1 reactor	NT3	harmonie reactor
NT3	nru reactor	NT3	tr-2 reactor	NT3	herald reactor
NT3	nrx reactor	NT3	triga-1-michigan reactor	NT3	hero reactor
NT3	nsrr reactor	NT3	triton reactor	NT3	hew-305 reactor
NT3	ntr reactor	NT3	trr-1 reactor	NT3	hfir reactor
NT3	nur reactor	NT3	tsr-2 reactor	NT3	hifar reactor
NT3	orphee reactor	NT3	ufr reactor	NT3	hre-2 reactor
NT3	osiris reactor	NT3	uknr reactor	NT3	htlfr reactor
NT3	owr reactor	NT3	umne-1 reactor	NT3	htr-10 reactor
NT3	parr-1 reactor	NT3	umrr reactor	NT3	irl reactor
NT3	pat reactor	NT3	utr-10-kinki reactor	NT3	irr-1 reactor
NT3	pbr reactor	NT3	utr reactor	NT3	irt-2000 djakarta reactor
NT3	pctr reactor	NT3	uvar reactor	NT3	irt-2000 moscow reactor
NT3	phebus reactor	NT3	vera reactor	NT3	irt-baghdad reactor
NT3	pik physical model reactor	NT3	viper reactor	NT3	ispra-1 reactor
NT3	pik reactor	NT3	vpi-utr-10 reactor	NT3	jmtr reactor
NT3	prnc-l-77 reactor	NT3	wrrr reactor	NT3	kalpakkam lmfr reactor
NT3	proteus reactor	NT3	wsur reactor	NT3	loft reactor
NT3	prtr reactor	NT3	wtr reactor	NT3	mzfr reactor
NT3	pstr reactor	NT3	wwr-2 reactor	NT3	netr reactor
NT3	ptr reactor	NT3	wwr-k-almaty reactor	NT3	nru reactor
NT3	pulstar-buffalo reactor	NT3	wwr-m-kiev reactor	NT3	ntr reactor
NT3	pulstar-raleigh reactor	NT3	wwr-m-leningrad reactor	NT3	orphee reactor
NT3	r-1 reactor	NT3	wwr-s-bucharest reactor	NT3	owr reactor
NT3	r-2 reactor	NT3	wwr-s-cairo reactor	NT3	pat reactor
NT3	r-a reactor	NT3	wwr-s-moscow reactor	NT3	pegase reactor
NT3	r2-0 reactor	NT3	wwr-s-prague reactor	NT3	proteus reactor
NT3	ra-0 reactor	NT3	wwr-s-tashkent reactor	NT3	ra-3 reactor
NT3	ra-2 reactor	NT3	wwr-sm rossendorf reactor	NT3	ra-4 reactor
NT3	ra-3 reactor	NT3	wwr-z reactor	NT3	ra-5 reactor
NT3	ra-4 reactor	NT3	x-10 reactor	NT3	ra-6 reactor
NT3	ra-5 reactor	NT3	xapr reactor	NT3	ra-8 reactor
NT3	ra-6 reactor	NT3	zebra reactor	NT3	rapsodie reactor
NT3	ra-8 reactor	NT3	zeep reactor	NT3	rts-1 reactor
NT3	rake-2 reactor	NT3	zenith reactor	NT3	s1c prototype reactor
NT3	rana reactor	NT3	zerlina reactor	NT3	safari-1 reactor
NT3	rb-1 reactor	NT3	zlfr reactor	NT3	sbr-5 reactor
NT3	rg-1m reactor	NT3	zppr reactor	NT3	snaptran reactors
NT3	rien-1 reactor	NT2	super kukla reactor	NT3	stf reactor
NT3	rinsc reactor	NT2	test reactors	NT3	tapiro reactor
NT3	ritmo reactor	NT3	aipfr reactor	NT3	tory-2a reactor
NT3	romashka reactor	NT3	arbus reactor	NT3	tory-2c reactor
NT3	rp-10 reactor	NT3	astr reactor	NT3	treat reactor
NT3	rpt reactor	NT3	astra reactor	NT3	triga-1-michigan reactor
NT3	rts-1 reactor	NT3	atpr reactor	NT3	triga-2-pavia reactor
NT3	rv-1 reactor	NT3	atr reactor	NT3	tsr-1 reactor
NT3	safari-1 reactor	NT3	barn reactor	NT3	tsr-2 reactor
NT3	sbr-1 reactor	NT3	bawtr reactor	NT3	urr reactor
NT3	sbr-2 reactor	NT3	bgrr reactor	NT3	uvar reactor
NT3	sbr-5 reactor	NT3	borax-5 reactor	NT3	viper reactor
NT3	scarabee reactor	NT3	br-02 reactor	NT3	wr-1 reactor
NT3	silene reactor	NT3	brr reactor	NT3	wtr reactor
NT3	slowpoke type reactors	NT3	cesnef reactor	NT2	training reactors
NT4	slowpoke-alberta reactor	NT3	cirus reactor	NT3	aerojet-general nucleonics reactors
NT4	slowpoke-dalhousie reactor	NT3	cp-5 reactor	NT3	afiri reactor
NT4	slowpoke-montreal reactor	NT3	dhruva reactor	NT3	ai-l-77 reactor
NT4	slowpoke-ottawa reactor	NT3	dimple reactor	NT3	akr-1 reactor
NT4	slowpoke-toronto reactor	NT3	diorit reactor	NT3	apsara reactor
NT4	slowpoke-wnre reactor	NT3	ebor reactor	NT3	arbi reactor
NT3	sneak reactor	NT3	ebr-1 reactor	NT3	argonaut reactor
NT3	sora reactor	NT3	eco reactor	NT3	argos reactor
NT3	spert-1 reactor	NT3	eocr reactor	NT3	athene reactor
NT3	spr-2 reactor	NT3	esada-vesr reactor	NT3	atpr reactor
NT3	spr-3 reactor	NT3	essor reactor	NT3	bgrr reactor
NT3	spr-4 reactor	NT3	etr reactor	NT3	budapest training reactor
NT3	sr-1 reactor	NT3	etrc reactor	NT3	byu l-77 reactor
NT3	sr-0a reactor	NT3	fffr reactor	NT3	cesnef reactor
NT3	srrc-utr-100 reactor	NT3	fir-1 reactor	NT3	cirus reactor
NT3	stf reactor	NT3	fmr reactor	NT3	colorado triga-mk-3 reactor
NT3	supo reactor	NT3	fmr reactor	NT3	consort-2 reactor
NT3	swierk r-2 reactor	NT3	fmr reactor	NT3	cornell triga-mk-2 reactor
NT3	taiwan research reactor	NT3	fmr reactor	NT3	dow triga-mk-1 reactor
NT3	tapiro reactor	NT3	fmr reactor	NT3	dr-1 reactor
NT3	tca reactor	NT3	fmr reactor	NT3	es-salam reactor
NT3	thetis reactor	NT3	fmr reactor	NT3	fir-1 reactor
NT3	thor reactor	NT3	fmr reactor	NT3	fmr reactor
NT3	tibr reactor	NT3	fmr reactor	NT3	fr-0 reactor
NT3	tory-2a reactor	NT3	fmr reactor		

NT3	frf reactor	NT3	pstr reactor	NT2	hfbr reactor
NT3	fg-1 reactor	NT3	rtp reactor	NT2	hfir reactor
NT3	gleep reactor	NT3	trico reactor	NT2	hfr reactor
NT3	gtrr reactor	NT3	triga-1-arizona reactor	NT2	hifar reactor
NT3	gulf triga-mk-3 reactor	NT3	triga-1-california reactor	NT2	hwctr reactor
NT3	hor reactor	NT3	triga-1-hanford reactor	NT2	igr reactor
NT3	htr reactor	NT3	triga-1-hanover reactor	NT2	irr-2 reactor
NT3	ian-r1 reactor	NT3	triga-1-heidelberg reactor	NT2	ispra-1 reactor
NT3	iowa utr-10 reactor	NT3	triga-1-michigan reactor	NT2	janus reactor
NT3	ir-100 reactor	NT3	triga-2-bandung reactor	NT2	jeep-2 reactor
NT3	jason reactor	NT3	triga-2-bangladesh reactor	NT2	jmtr reactor
NT3	jrr-1 reactor	NT3	triga-2-dalat reactor	NT2	jrr-2 reactor
NT3	kur reactor	NT3	triga-2-illinois reactor	NT2	jrr-3 reactor
NT3	lfr reactor	NT3	triga-2-kansas reactor	NT2	juno reactor
NT3	melusine-1 reactor	NT3	triga-2-ljubljana reactor	NT2	kamini reactor
NT3	merlin reactor	NT3	triga-2-mainz reactor	NT2	litr reactor
NT3	mitr reactor	NT3	triga-2-musashi reactor	NT2	loft reactor
NT3	moata reactor	NT3	triga-2-pavia reactor	NT2	lprr reactor
NT3	murr reactor	NT3	triga-2-pitesti reactor	NT2	mir reactor
NT3	nscr-1 reactor	NT3	triga-2 reactor	NT2	mitr reactor
NT3	nevada university reactor	NT3	triga-2-rikkyo reactor	NT2	mnsr type reactors
NT3	nscr reactor	NT3	triga-2-rome reactor	NT3	gharr-1 reactor
NT3	ostr reactor	NT3	triga-2-seoul reactor	NT3	mnsr-ciae reactor
NT3	osur reactor	NT3	triga-2-vienna reactor	NT3	mnsr-sd reactor
NT3	pnc-1-77 reactor	NT3	triga-3-la jolla reactor	NT3	mnsr-sh reactor
NT3	pstr reactor	NT3	triga-3-munich reactor	NT3	mnsr-sz reactor
NT3	pur-1 reactor	NT3	triga-3-salazar reactor	NT3	nirr-1 reactor
NT3	queen mary college utr-b reactor	NT3	triga-3-seoul reactor	NT3	parr-2 reactor
NT3	r-b reactor	NT3	triga-brazil reactor	NT3	srr-1 reactor
NT3	ra-1 reactor	NT3	triga-texas reactor	NT2	mrr reactor
NT3	rien-1 reactor	NT3	triga-veterans reactor	NT2	mtr reactor
NT3	rts-1 reactor	NT3	ucbr reactor	NT2	murr reactor
NT3	rv-1 reactor	NT3	uwnr reactor	NT2	nbsr reactor
NT3	sr-3p reactor	NT3	wsur reactor	NT2	netr reactor
NT3	srcc-utr-100 reactor	NT2	yayoi reactor	NT2	nora reactor
NT3	stark reactor	NT1	steam cooled reactors	NT2	nru reactor
NT3	strasbourg-cronenbourg reactor	NT1	tank type reactors	NT2	nrx reactor
NT3	sur-100 series reactor	NT2	aarr reactor	NT2	ntr reactor
NT3	thetis reactor	NT2	alrr reactor	NT2	nuclear furnace reactor
NT3	thor reactor	NT2	aquilon reactor	NT2	orpee reactor
NT3	toshiba reactor	NT2	atr reactor	NT2	orr reactor
NT3	tr-1 reactor	NT2	atsr reactor	NT2	osiris reactor
NT3	trico reactor	NT2	borax-1 reactor	NT2	owr reactor
NT3	triga-1-michigan reactor	NT2	borax-2 reactor	NT2	pbf reactor
NT3	triga-2-pavia reactor	NT2	borax-3 reactor	NT2	pbr reactor
NT3	trr-1 reactor	NT2	borax-4 reactor	NT2	pegase reactor
NT3	ucbr reactor	NT2	borax-5 reactor	NT2	pelinduna reactor
NT3	ufr reactor	NT2	br-02 reactor	NT2	pik reactor
NT3	ulyse reactor	NT2	br-1 reactor	NT2	pluto reactor
NT3	umne-1 reactor	NT2	br-2 reactor	NT2	prcf reactor
NT3	umrr reactor	NT2	br-3-vn reactor	NT2	prr reactor
NT3	urr reactor	NT2	cirus reactor	NT2	pse reactor
NT3	utr-10-kinki reactor	NT2	cp-3 reactor	NT2	purnima-3 reactor
NT3	uvar reactor	NT2	cp-3m reactor	NT2	r-1 reactor
NT3	uwnr reactor	NT2	cp-5 reactor	NT2	r-2 reactor
NT3	uwtr reactor	NT2	dca reactor	NT2	r-a reactor
NT3	vpi-utr-10 reactor	NT2	dido reactor	NT2	ra-0 reactor
NT3	vr-1 reactor	NT2	diorit reactor	NT2	ra-2 reactor
NT3	wnt reactor	NT2	dmtr reactor	NT2	ra-3 reactor
NT3	wpir reactor	NT2	dr-3 reactor	NT2	ra-4 reactor
NT3	wwr-s-budapest reactor	NT2	eco reactor	NT2	ra-5 reactor
NT3	x-10 reactor	NT2	el-1 reactor	NT2	rake-2 reactor
NT3	zlf reactor	NT2	el-2 reactor	NT2	rb-3 reactor
NT3	zpr reactor	NT2	el-3 reactor	NT2	rospo reactor
NT2	triga type reactors	NT2	eocr reactor	NT2	rpt reactor
NT3	afri reactor	NT2	eole reactor	NT2	safari-1 reactor
NT3	atpr reactor	NT2	esada-vesr reactor	NT2	sm-2 reactor
NT3	colorado triga-mk-3 reactor	NT2	essor reactor	NT2	spert-1 reactor
NT3	cornell triga-mk-2 reactor	NT2	etr reactor	NT2	spert-2 reactor
NT3	dow triga-mk-1 reactor	NT2	etr-1 reactor	NT2	spert-3 reactor
NT3	fir-1 reactor	NT2	ewa reactor	NT2	sr-1 reactor
NT3	frf-2 reactor	NT2	ewg-1 reactor	NT2	sr-oa reactor
NT3	frn reactor	NT2	fir-1 reactor	NT2	taiwan research reactor
NT3	gulf triga-mk-3 reactor	NT2	fr-2 reactor	NT2	tca reactor
NT3	kartini-ppny reactor	NT2	frj-2 reactor	NT2	thermos reactor
NT3	lopra reactor	NT2	getr reactor	NT2	triga-1-michigan reactor
NT3	nscr reactor	NT2	grenoble reactor	NT2	tsr-1 reactor
NT3	ostr reactor	NT2	gtrr reactor	NT2	venus reactor
NT3	prpr reactor	NT2	hbwr reactor	NT2	wnt reactor

NT2	wr-1 reactor	NT3	bailly-1 reactor	NT3	jpdr reactor
NT2	wtr reactor	NT3	barsebaeck-1 reactor	NT3	kaiseraugst reactor
NT2	wwr type reactors	NT3	barsebaeck-2 reactor	NT3	kashiwazaki-kariwa-1 reactor
NT3	budapest training reactor	NT3	barton-1 reactor	NT3	kashiwazaki-kariwa-2 reactor
NT3	irt-1 libya reactor	NT3	barton-2 reactor	NT3	kashiwazaki-kariwa-3 reactor
NT3	irt-baghdad reactor	NT3	barton-3 reactor	NT3	kashiwazaki-kariwa-4 reactor
NT3	lvr-15 reactor	NT3	barton-4 reactor	NT3	kashiwazaki-kariwa-5 reactor
NT3	wwr-2 reactor	NT3	bell reactor	NT3	kashiwazaki-kariwa-6 reactor
NT3	wwr-k-almaty reactor	NT3	big rock point reactor	NT3	kashiwazaki-kariwa-7 reactor
NT3	wwr-m-kiev reactor	NT3	black fox-1 reactor	NT3	krummel reactor
NT3	wwr-m-leningrad reactor	NT3	black fox-2 reactor	NT3	kuosheng-1 reactor
NT3	wwr-s-bucharest reactor	NT3	bolsa chica-1 reactor	NT3	kuosheng-2 reactor
NT3	wwr-s-budapest reactor	NT3	bolsa chica-2 reactor	NT3	la salle county-1 reactor
NT3	wwr-s-cairo reactor	NT3	bonus reactor	NT3	la salle county-2 reactor
NT3	wwr-s-moscow reactor	NT3	browns ferry-1 reactor	NT3	labwr reactor
NT3	wwr-s-prague reactor	NT3	browns ferry-2 reactor	NT3	laguna verde-1 reactor
NT3	wwr-s-tashkent reactor	NT3	browns ferry-3 reactor	NT3	laguna verde-2 reactor
NT3	wwr-sm rossendorf reactor	NT3	brunsbuettel reactor	NT3	leibstadt reactor
NT3	wwr-z reactor	NT3	brunswick-1 reactor	NT3	limerick-1 reactor
NT2	zed-2 reactor	NT3	brunswick-2 reactor	NT3	limerick-2 reactor
NT2	zeep reactor	NT3	chinsan-1 reactor	NT3	lingen reactor
NT2	zlfr reactor	NT3	chinsan-2 reactor	NT3	mendocino-1 reactor
NT2	zpr reactor	NT3	clinton-1 reactor	NT3	mendocino-2 reactor
NT1	thermal reactors	NT3	clinton-2 reactor	NT3	millstone-1 reactor
NT2	aeg-pr-10 reactor	NT3	cofrentes reactor	NT3	montague-1 reactor
NT2	aerojet-general nucleonics reactors	NT3	cooper reactor	NT3	montague-2 reactor
NT2	afri reactor	NT3	dodewaard reactor	NT3	montalto di castro-1 reactor
NT2	agesta reactor	NT3	douglas point-1 reactor	NT3	montalto di castro-2 reactor
NT2	ai-l-77 reactor	NT3	douglas point-2 reactor	NT3	monticello reactor
NT2	akr-1 reactor	NT3	dresden-1 reactor	NT3	muehleberg reactor
NT2	alrr reactor	NT3	dresden-2 reactor	NT3	nine mile point-1 reactor
NT2	anex reactor	NT3	dresden-3 reactor	NT3	nine mile point-2 reactor
NT2	anna reactor	NT3	duane arnold-1 reactor	NT3	okg-1 reactor
NT2	aps reactor	NT3	ebwr reactor	NT3	okg-2 reactor
NT2	apsara reactor	NT3	enel-4 reactor	NT3	okg-3 reactor
NT2	aquilon reactor	NT3	enrico fermi-2 reactor	NT3	olkiluoto-1 reactor
NT2	arbi reactor	NT3	err reactor	NT3	olkiluoto-2 reactor
NT2	arbus reactor	NT3	fitzpatrick reactor	NT3	onagawa-1 reactor
NT2	argonaut reactor	NT3	forsmark-1 reactor	NT3	onagawa-2 reactor
NT2	argos reactor	NT3	forsmark-2 reactor	NT3	onagawa-3 reactor
NT2	argus reactor	NT3	forsmark-3 reactor	NT3	oyster creek-1 reactor
NT2	armf-1 reactor	NT3	fukushima-1 reactor	NT3	pathfinder reactor
NT2	astra reactor	NT3	fukushima-2 reactor	NT3	peach bottom-2 reactor
NT2	athene reactor	NT3	fukushima-3 reactor	NT3	peach bottom-3 reactor
NT2	atpr reactor	NT3	fukushima-4 reactor	NT3	perry-1 reactor
NT2	atr reactor	NT3	fukushima-5 reactor	NT3	perry-2 reactor
NT2	atrc reactor	NT3	fukushima-6 reactor	NT3	philippsburg-1 reactor
NT2	atsr reactor	NT3	fukushima-ii-1 reactor	NT3	phipps bend-1 reactor
NT2	atucha-2 reactor	NT3	fukushima-ii-2 reactor	NT3	phipps bend-2 reactor
NT2	atucha reactor	NT3	fukushima-ii-3 reactor	NT3	pilgrim-1 reactor
NT2	avogadro rs-1 reactor	NT3	fukushima-ii-4 reactor	NT3	quad cities-1 reactor
NT2	avr reactor	NT3	garigliano reactor	NT3	quad cities-2 reactor
NT2	bawtr reactor	NT3	garona reactor	NT3	ringhals-1 reactor
NT2	beloyarsk-1 reactor	NT3	ge standard reactor	NT3	river bend-1 reactor
NT2	beloyarsk-2 reactor	NT3	graben-1 reactor	NT3	river bend-2 reactor
NT2	bepo reactor	NT3	graben-2 reactor	NT3	rwe-bayernwerk reactor
NT2	ber-2 reactor	NT3	grand gulf-1 reactor	NT3	shika-1 reactor
NT2	berkeley reactor	NT3	grand gulf-2 reactor	NT3	shimane-1 reactor
NT2	bgrr reactor	NT3	gundremmingen-2 reactor	NT3	shimane-2 reactor
NT2	bilibin reactor	NT3	gundremmingen-3 reactor	NT3	shoreham reactor
NT2	bohunice a-1 reactor	NT3	hamaoka-1 reactor	NT3	skagit-1 reactor
NT2	bohunice a-2 reactor	NT3	hamaoka-2 reactor	NT3	skagit-2 reactor
NT2	borax-1 reactor	NT3	hamaoka-3 reactor	NT3	sl-1 reactor
NT2	borax-2 reactor	NT3	hamaoka-4 reactor	NT3	susquehanna-1 reactor
NT2	borax-3 reactor	NT3	hamaoka-5 reactor	NT3	susquehanna-2 reactor
NT2	borax-4 reactor	NT3	hartsville-1 reactor	NT3	tarapur-1 reactor
NT2	borax-5 reactor	NT3	hartsville-2 reactor	NT3	tarapur-2 reactor
NT2	br-02 reactor	NT3	hartsville-3 reactor	NT3	tokai-2 reactor
NT2	br-1 reactor	NT3	hartsville-4 reactor	NT3	tsuruga reactor
NT2	br-2 reactor	NT3	hatch-1 reactor	NT3	tullnerfeld reactor
NT2	bradwell reactor	NT3	hatch-2 reactor	NT3	vak reactor
NT2	brr reactor	NT3	hdr reactor	NT3	vbwr reactor
NT2	bsr-1 reactor	NT3	hope creek-1 reactor	NT3	vermont yankee reactor
NT2	bsr-2 reactor	NT4	newbold island-1 reactor	NT3	verplanck-1 reactor
NT2	budapest training reactor	NT3	hope creek-2 reactor	NT3	verplanck-2 reactor
NT2	bugey-1 reactor	NT4	newbold island-2 reactor	NT3	vk-50 reactor
NT2	bwr type reactors	NT3	humboldt bay reactor	NT3	wnp-2 reactor
NT3	allens creek-1 reactor	NT3	isar reactor	NT3	wuergassen reactor
NT3	allens creek-2 reactor	NT3	jpdr-2 reactor	NT3	zimmer-1 reactor

NT3	zimmer-2 reactor	NT2	dr-1 reactor	NT2	kaiga-3 reactor
NT2	byu 1-77 reactor	NT2	dr-2 reactor	NT2	kaiga-4 reactor
NT2	cabri reactor	NT2	dr-3 reactor	NT2	kamini reactor
NT2	calder hall a-1 reactor	NT2	dragon reactor	NT2	knk reactor
NT2	calder hall a-2 reactor	NT2	dungeness-a reactor	NT2	kuhfr reactor
NT2	calder hall b-3 reactor	NT2	dungeness-b reactor	NT2	kursk-1 reactor
NT2	calder hall b-4 reactor	NT2	ebor reactor	NT2	kursk-2 reactor
NT2	candu type reactors	NT2	egcr reactor	NT2	kursk-3 reactor
NT3	bruce-1 reactor	NT2	el-1 reactor	NT2	kursk-4 reactor
NT3	bruce-2 reactor	NT2	el-2 reactor	NT2	latina reactor
NT3	bruce-3 reactor	NT2	el-4 reactor	NT2	leningrad-1 reactor
NT3	bruce-4 reactor	NT2	eocr reactor	NT2	leningrad-2 reactor
NT3	bruce-5 reactor	NT2	es-salam reactor	NT2	leningrad-3 reactor
NT3	bruce-6 reactor	NT2	esada-vesr reactor	NT2	leningrad-4 reactor
NT3	bruce-7 reactor	NT2	essor reactor	NT2	lfr reactor
NT3	bruce-8 reactor	NT2	etr reactor	NT2	lido reactor
NT3	chernavoda-1 reactor	NT2	etrc reactor	NT2	litr reactor
NT3	cordoba reactor	NT2	etrr-2 reactor	NT2	lpr reactor
NT3	darlington-1 reactor	NT2	ewg-1 reactor	NT2	lprr reactor
NT3	darlington-2 reactor	NT2	fir-1 reactor	NT2	lucens reactor
NT3	darlington-3 reactor	NT2	frr reactor	NT2	lvr-15 reactor
NT3	darlington-4 reactor	NT2	fr-2 reactor	NT2	lwbr type reactors
NT3	douglas point ontario reactor	NT2	frg-1 reactor	NT2	maria reactor
NT3	embalse reactor	NT2	frm-ii reactor	NT2	marius reactor
NT3	gentilly-2 reactor	NT2	fulton-1 reactor	NT2	melusine-1 reactor
NT3	gentilly reactor	NT2	fulton-2 reactor	NT2	merlin reactor
NT3	kaiga-1 reactor	NT2	g-1 reactor	NT2	minerve reactor
NT3	kaiga-2 reactor	NT2	g-2 reactor	NT2	mir reactor
NT3	kakrapar-1 reactor	NT2	g-3 reactor	NT2	mitr reactor
NT3	kakrapar-2 reactor	NT2	ga siwabessy reactor	NT2	mnsr type reactors
NT3	kanupp reactor	NT2	ga standard reactor	NT3	gharr-1 reactor
NT3	npd reactor	NT2	getr reactor	NT3	mnsr-ciae reactor
NT3	pickering-1 reactor	NT2	gidra reactor	NT3	mnsr-sd reactor
NT3	pickering-2 reactor	NT2	gleep reactor	NT3	mnsr-sh reactor
NT3	pickering-3 reactor	NT2	hartlepool reactor	NT3	mnsr-sz reactor
NT3	pickering-4 reactor	NT2	hbwr reactor	NT3	nirr-1 reactor
NT3	pickering-5 reactor	NT2	hector reactor	NT3	parr-2 reactor
NT3	pickering-6 reactor	NT2	herald reactor	NT3	srr-1 reactor
NT3	pickering-7 reactor	NT2	hew-305 reactor	NT2	mrr reactor
NT3	pickering-8 reactor	NT2	heysham-a reactor	NT2	msre reactor
NT3	point lepreau-1 reactor	NT2	heysham-b reactor	NT2	mtr reactor
NT3	point lepreau-2 reactor	NT2	hfbr reactor	NT2	mzfr reactor
NT3	qinshan-3-1 reactor	NT2	hfetr reactor	NT2	nbsr reactor
NT3	qinshan-3-2 reactor	NT2	hfir reactor	NT2	ncscr-1 reactor
NT3	rajasthan-1 reactor	NT2	hfr reactor	NT2	nestor reactor
NT3	rajasthan-2 reactor	NT2	hfar reactor	NT2	netr reactor
NT3	rajasthan-3 reactor	NT2	hinkley point-a reactor	NT2	nevada university reactor
NT3	rajasthan-4 reactor	NT2	hinkley point-b reactor	NT2	nhr-5 reactor
NT3	wolsung-1 reactor	NT2	hitrex-1 reactor	NT2	niederaichbach reactor
NT3	wolsung-2 reactor	NT2	hnpf reactor	NT2	nora reactor
NT3	wolsung-3 reactor	NT2	hor reactor	NT2	nrx reactor
NT3	wolsung-4 reactor	NT2	htr reactor	NT2	ntr reactor
NT2	cesar reactor	NT2	hunterston-a reactor	NT2	nur reactor
NT2	cesnef reactor	NT2	hunterston-b reactor	NT2	oldbury-a reactor
NT2	chapelcross-1 reactor	NT2	hwctr reactor	NT2	oldbury-b reactor
NT2	chapelcross-2 reactor	NT2	hwzpr reactor	NT2	opal reactor
NT2	chapelcross-3 reactor	NT2	ian-r1 reactor	NT2	osiris reactor
NT2	chapelcross-4 reactor	NT2	iear-1 reactor	NT2	owr reactor
NT2	chernobylsk-1 reactor	NT2	ignalina-1 reactor	NT2	ptr reactor
NT2	chernobylsk-2 reactor	NT2	ignalina-2 reactor	NT2	peach bottom-1 reactor
NT2	chernobylsk-3 reactor	NT2	igr reactor	NT2	pegase reactor
NT2	chernobylsk-4 reactor	NT2	irl reactor	NT2	pelinduna reactor
NT2	chinon-1 reactor	NT2	irr-1 reactor	NT2	perryman-1 reactor
NT2	chinon-2 reactor	NT2	irt-1 libya reactor	NT2	perryman-2 reactor
NT2	chinon-3 reactor	NT2	irt-2000 djakarta reactor	NT2	phebus reactor
NT2	cirene reactor	NT2	irt-2000 moscow reactor	NT2	pik physical model reactor
NT2	cirus reactor	NT2	irt-baghdad reactor	NT2	pik reactor
NT2	consort-2 reactor	NT2	irt-c reactor	NT2	pluto reactor
NT2	cp-2 reactor	NT2	irt-f reactor	NT2	pnpf reactor
NT2	cp-3 reactor	NT2	irt reactor	NT2	prr reactor
NT2	cp-3m reactor	NT2	irt-sofia reactor	NT2	pse reactor
NT2	cp-5 reactor	NT2	isis reactor	NT2	pstr reactor
NT2	cvtr reactor	NT2	ivv-2m reactor	NT2	pur-1 reactor
NT2	democritus reactor	NT2	janus reactor	NT2	pumima-3 reactor
NT2	dhruva reactor	NT2	jatr reactor	NT2	pwr type reactors
NT2	dido reactor	NT2	jen-1 reactor	NT3	aguirre reactor
NT2	dimple reactor	NT2	jen reactor	NT3	almaraz-1 reactor
NT2	dmtr reactor	NT2	jules horowitz reactor	NT3	almaraz-2 reactor
NT2	dow triga-mk-1 reactor	NT2	juno reactor	NT3	angra-1 reactor

NT3	angra-2 reactor	NT3	diablo canyon-2 reactor	NT3	midland-1 reactor
NT3	angra-3 reactor	NT3	doel-1 reactor	NT3	midland-2 reactor
NT3	ardennes b-1 reactor	NT3	doel-2 reactor	NT3	mihama-1 reactor
NT3	ardennes b-2 reactor	NT3	doel-3 reactor	NT3	mihama-2 reactor
NT3	ardennes reactor	NT3	doel-4 reactor	NT3	mihama-3 reactor
NT3	arkansas-1 reactor	NT3	efdr-50 reactor	NT3	millstone-2 reactor
NT3	arkansas-2 reactor	NT3	emsland reactor	NT3	millstone-3 reactor
NT3	asco-1 reactor	NT3	erie-1 reactor	NT3	muelheim-kaerlich reactor
NT3	asco-2 reactor	NT3	erie-2 reactor	NT3	mutsu reactor
NT3	atlantic-1 reactor	NT3	farley-1 reactor	NT3	neckar-1 reactor
NT3	atlantic-2 reactor	NT3	farley-2 reactor	NT3	neckar-2 reactor
NT3	basf-1 reactor	NT3	fessenheim-1 reactor	NT3	nep-1 reactor
NT3	basf-2 reactor	NT3	flamanville-1 reactor	NT3	nep-2 reactor
NT3	beaver valley-1 reactor	NT3	flamanville-2 reactor	NT3	neupotz-1 reactor
NT3	beaver valley-2 reactor	NT3	forked river-1 reactor	NT3	neupotz-2 reactor
NT3	bellefonte-1 reactor	NT3	genkai-1 reactor	NT3	nogent sur seine-1 reactor
NT3	bellefonte-2 reactor	NT3	genkai-2 reactor	NT3	nogent sur seine-2 reactor
NT3	belleville sur loire-1 reactor	NT3	genkai-3 reactor	NT3	north anna-1 reactor
NT3	belleville sur loire-2 reactor	NT3	genkai-4 reactor	NT3	north anna-2 reactor
NT3	beznau-1 reactor	NT3	ginna-1 reactor	NT3	north anna-3 reactor
NT3	beznau-2 reactor	NT3	goesgen reactor	NT3	north anna-4 reactor
NT3	biblis-1 reactor	NT3	golfech-1 reactor	NT3	north coast-1 reactor
NT3	biblis-2 reactor	NT3	golfech-2 reactor	NT3	obrigheim reactor
NT3	biblis-3 reactor	NT3	grafenrheinfeld reactor	NT3	oconee-1 reactor
NT3	biblis-4 reactor	NT3	gravelines-1 reactor	NT3	oconee-2 reactor
NT3	blayais-1 reactor	NT3	gravelines-2 reactor	NT3	oconee-3 reactor
NT3	blue hills-1 reactor	NT3	gravelines-3 reactor	NT3	oi-1 reactor
NT3	blue hills-2 reactor	NT3	gravelines-4 reactor	NT3	oi-2 reactor
NT3	borssele reactor	NT3	gravelines-5 reactor	NT3	oi-3 reactor
NT3	br-3 reactor	NT3	gravelines-6 reactor	NT3	oi-4 reactor
NT3	braidwood-1 reactor	NT3	greene county reactor	NT3	oktemberyan-2 reactor
NT3	braidwood-2 reactor	NT3	greenwood-2 reactor	NT3	olkiluoto-3 reactor
NT3	brokdorf reactor	NT3	greenwood-3 reactor	NT3	otto hahn reactor
NT3	bugey-2 reactor	NT3	grohnde reactor	NT3	palisades-1 reactor
NT3	bugey-3 reactor	NT3	hamm-uentrop reactor	NT3	palo verde-1 reactor
NT3	bugey-4 reactor	NT3	harris-1 reactor	NT3	palo verde-2 reactor
NT3	bugey-5 reactor	NT3	harris-2 reactor	NT3	palo verde-3 reactor
NT3	bw standard reactor	NT3	harris-3 reactor	NT3	palo verde-4 reactor
NT3	byron-1 reactor	NT3	harris-4 reactor	NT3	palo verde-5 reactor
NT3	byron-2 reactor	NT3	haven-1 reactor	NT3	paluel-1 reactor
NT3	calhoun-1 reactor	NT4	koshkonong-1 reactor	NT3	paluel-2 reactor
NT3	calhoun-2 reactor	NT3	haven-2 reactor	NT3	paluel-3 reactor
NT3	callaway-1 reactor	NT4	koshkonong-2 reactor	NT3	paluel-4 reactor
NT3	callaway-2 reactor	NT3	ikata-2 reactor	NT3	pat reactor
NT3	calvert cliffs-1 reactor	NT3	ikata-3 reactor	NT3	pebble springs-1 reactor
NT3	calvert cliffs-2 reactor	NT3	ikata reactor	NT3	pebble springs-2 reactor
NT3	catawba-1 reactor	NT3	indian point-1 reactor	NT3	penly-1 reactor
NT3	catawba-2 reactor	NT3	indian point-2 reactor	NT3	perkins-1 reactor
NT3	cattenom-1 reactor	NT3	indian point-3 reactor	NT3	perkins-2 reactor
NT3	cattenom-2 reactor	NT3	iran-1 reactor	NT3	perkins-3 reactor
NT3	cattenom-3 reactor	NT3	iran-2 reactor	NT3	philippsburg-2 reactor
NT3	cattenom-4 reactor	NT3	isar-2 reactor	NT3	pilgrim-2 reactor
NT3	ce standard reactor	NT3	jamesport-1 reactor	NT3	pilgrim-3 reactor
NT3	cherokee-1 reactor	NT3	jamesport-2 reactor	NT3	pm-2a reactor
NT3	cherokee-2 reactor	NT3	kewaunee reactor	NT3	pm-3a reactor
NT3	cherokee-3 reactor	NT3	koeberg-1 reactor	NT3	pnp-1 reactor
NT3	chinon-b1 reactor	NT3	koeberg-2 reactor	NT3	point beach-1 reactor
NT3	civaux-1 reactor	NT3	kori-1 reactor	NT3	point beach-2 reactor
NT3	civaux-2 reactor	NT3	kori-2 reactor	NT3	prairie island-1 reactor
NT3	comanche peak-1 reactor	NT3	kori-3 reactor	NT3	prairie island-2 reactor
NT3	comanche peak-2 reactor	NT3	kori-4 reactor	NT3	qinshan-1 reactor
NT3	connecticut yankee reactor	NT3	krsko reactor	NT3	qinshan-2-1 reactor
NT3	cook-1 reactor	NT3	lemoniz-1 reactor	NT3	qinshan-2-2 reactor
NT3	cook-2 reactor	NT3	lemoniz-2 reactor	NT3	quanicasee-1 reactor
NT3	cruas-2 reactor	NT3	lenin reactor	NT3	quanicasee-2 reactor
NT3	cruas-3 reactor	NT3	leonid brezhnev reactor	NT3	rancho seco-1 reactor
NT3	cruas-4 reactor	NT3	lingao-1 reactor	NT3	remerschen reactor
NT3	crystal river-3 reactor	NT3	lingao-2 reactor	NT3	rheinsberg akw1 reactor
NT3	crystal river-4 reactor	NT3	loft reactor	NT3	ringhals-2 reactor
NT3	dampierre-1 reactor	NT3	lucie-1 reactor	NT3	ringhals-3 reactor
NT3	dampierre-2 reactor	NT3	lucie-2 reactor	NT3	ringhals-4 reactor
NT3	dampierre-3 reactor	NT3	maanshan-1 reactor	NT3	robinson-2 reactor
NT3	dampierre-4 reactor	NT3	maine yankee reactor	NT3	rooppur reactor
NT3	davis besse-1 reactor	NT3	malibu-1 reactor	NT3	rowe yankee reactor
NT3	davis besse-2 reactor	NT3	marble hill-1 reactor	NT3	s1c prototype reactor
NT3	davis besse-3 reactor	NT3	marble hill-2 reactor	NT3	saint alban-1 reactor
NT3	daya bay-1 reactor	NT3	mc guire-1 reactor	NT3	saint alban-2 reactor
NT3	daya bay-2 reactor	NT3	mc guire-2 reactor	NT3	saint laurent-b1 reactor
NT3	diablo canyon-1 reactor	NT3	mh-1a reactor	NT3	salem-1 reactor



NT3	salem-2 reactor	NT4	armenian-2 reactor	NT2	r-a reactor
NT3	san onofre-1 reactor	NT4	balakovo-1 reactor	NT2	ra-5 reactor
NT3	san onofre-2 reactor	NT4	balakovo-2 reactor	NT2	ra-6 reactor
NT3	san onofre-3 reactor	NT4	balakovo-3 reactor	NT2	ra-8 reactor
NT3	savannah reactor	NT4	balakovo-4 reactor	NT2	rajasthan-5 reactor
NT3	saxton reactor	NT4	blahutovice-1 reactor	NT2	rajasthan-6 reactor
NT3	seabrook-1 reactor	NT4	bohunice v-1 reactor	NT2	rb-1 reactor
NT3	seabrook-2 reactor	NT4	bohunice v-2 reactor	NT2	rb-2 reactor
NT3	selni reactor	NT4	dukovany-1 reactor	NT2	rg-1m reactor
NT3	sendai-1 reactor	NT4	dukovany-2 reactor	NT2	ritmo reactor
NT3	sendai-2 reactor	NT4	dukovany-3 reactor	NT2	rts-1 reactor
NT3	sequoyah-1 reactor	NT4	dukovany-4 reactor	NT2	safari-1 reactor
NT3	sequoyah-2 reactor	NT4	greifswald-1 reactor	NT2	saint laurent-1 reactor
NT3	shippingport reactor	NT4	greifswald-2 reactor	NT2	saint laurent-2 reactor
NT3	sizewell-b reactor	NT4	greifswald-3 reactor	NT2	saphir reactor
NT3	sm-1 reactor	NT4	greifswald-4 reactor	NT2	scarabee reactor
NT3	sm-1a reactor	NT4	greifswald-5 reactor	NT2	sghwr reactor
NT3	south texas project-1 reactor	NT4	greifswald-6 reactor	NT2	shca reactor
NT3	south texas project-2 reactor	NT4	juragua-1 reactor	NT2	siloe reactor
NT3	stade reactor	NT4	kalinin-1 reactor	NT2	silhouette reactor
NT3	sterling-1 reactor	NT4	kalinin-3 reactor	NT2	sizewell-a reactor
NT3	sterling-2 reactor	NT4	kecerovce-1 reactor	NT2	sm-2 reactor
NT3	summer-1 reactor	NT4	khmelnitskij-1 reactor	NT2	smolensk-1 reactor
NT3	sundesert-1 reactor	NT4	kola-1 reactor	NT2	smolensk-2 reactor
NT3	sundesert-2 reactor	NT4	kola-2 reactor	NT2	smolensk-3 reactor
NT3	surry-1 reactor	NT4	kola-3 reactor	NT2	spert-1 reactor
NT3	surry-2 reactor	NT4	kola-4 reactor	NT2	spert-2 reactor
NT3	surry-3 reactor	NT4	kozloduy-1 reactor	NT2	spert-3 reactor
NT3	surry-4 reactor	NT4	kozloduy-2 reactor	NT2	spert-4 reactor
NT3	takahama-1 reactor	NT4	kozloduy-3 reactor	NT2	spr-2 reactor
NT3	takahama-2 reactor	NT4	kozloduy-4 reactor	NT2	sr-1 reactor
NT3	takahama-3 reactor	NT4	kozloduy-5 reactor	NT2	sr-305 reactor
NT3	takahama-4 reactor	NT4	kozloduy-6 reactor	NT2	sr-3p reactor
NT3	three mile island-1 reactor	NT4	kudankulam-1 reactor	NT2	sre reactor
NT3	three mile island-2 reactor	NT4	kudankulam-2 reactor	NT2	srrc-utr-100 reactor
NT3	tihange-2 reactor	NT4	loviisa-1 reactor	NT2	stark reactor
NT3	tihange-3 reactor	NT4	loviisa-2 reactor	NT2	stek reactor
NT3	tihange reactor	NT4	mochovce-1 reactor	NT2	stir reactor
NT3	tomari-1 reactor	NT4	mochovce-2 reactor	NT2	supo reactor
NT3	tomari-2 reactor	NT4	novovoronezh-1 reactor	NT2	sur-100 series reactor
NT3	tricastin-1 reactor	NT4	novovoronezh-2 reactor	NT2	taiwan research reactor
NT3	tricastin-4 reactor	NT4	novovoronezh-3 reactor	NT2	tarapur-3 reactor
NT3	trillo-1 reactor	NT4	novovoronezh-4 reactor	NT2	tarapur-4 reactor
NT3	trojan reactor	NT4	novovoronezh-5 reactor	NT2	thermos reactor
NT3	tsuruga-2 reactor	NT4	paks-1 reactor	NT2	thetis reactor
NT3	turkey point-3 reactor	NT4	paks-2 reactor	NT2	thtr-300 reactor
NT3	turkey point-4 reactor	NT4	paks-3 reactor	NT2	tokai-mura reactor
NT3	tva-1 reactor	NT4	paks-4 reactor	NT2	torness reactor
NT3	tva-2 reactor	NT4	rovno-1 reactor	NT2	toshiba reactor
NT3	tyrone-1 reactor	NT4	rovno-2 reactor	NT2	tr-1 reactor
NT3	tyrone-2 reactor	NT4	rovno-3 reactor	NT2	tr-2 reactor
NT3	ulchin-1 reactor	NT4	rovno-4 reactor	NT2	trawsfynydd reactor
NT3	ulchin-2 reactor	NT4	rovno-5 reactor	NT2	treat reactor
NT3	ulchin-3 reactor	NT4	south ukrainian-1 reactor	NT2	trico reactor
NT3	ulchin-4 reactor	NT4	south ukrainian-2 reactor	NT2	triga-1-california reactor
NT3	unterweser reactor	NT4	south ukrainian-3 reactor	NT2	triga-1-hanover reactor
NT3	vahnum-1 reactor	NT4	stendal-1 reactor	NT2	triga-1-heidelberg reactor
NT3	vahnum-2 reactor	NT4	tatarian reactor	NT2	triga-1-michigan reactor
NT3	vandellos-2 reactor	NT4	temelin-1 reactor	NT2	triga-2-bandung reactor
NT3	vogtle-1 reactor	NT4	temelin-2 reactor	NT2	triga-2-bangladesh reactor
NT3	vogtle-2 reactor	NT4	tianwan-1 reactor	NT2	triga-2-dalat reactor
NT3	vogtle-3 reactor	NT4	zaporozhe-1 reactor	NT2	triga-2-illinois reactor
NT3	vogtle-4 reactor	NT4	zaporozhe-2 reactor	NT2	triga-2-kansas reactor
NT3	waterford-3 reactor	NT4	zaporozhe-3 reactor	NT2	triga-2-ljubljana reactor
NT3	waterford-4 reactor	NT4	zaporozhe-4 reactor	NT2	triga-2-mainz reactor
NT3	watts bar-1 reactor	NT4	zaporozhe-5 reactor	NT2	triga-2-musashi reactor
NT3	watts bar-2 reactor	NT4	zaporozhe-6 reactor	NT2	triga-2-pavia reactor
NT3	westinghouse standard reactor	NT3	wyhl-1 reactor	NT2	triga-2-pitesti reactor
NT3	wnp-1 reactor	NT3	wyhl-2 reactor	NT2	triga-2 reactor
NT3	wnp-3 reactor	NT3	yellow creek-1 reactor	NT2	triga-2-rikkyo reactor
NT3	wnp-4 reactor	NT3	yellow creek-2 reactor	NT2	triga-2-rome reactor
NT3	wnp-5 reactor	NT3	yonggwang-1 reactor	NT2	triga-2-seoul reactor
NT3	wolf creek-1 reactor	NT3	yonggwang-2 reactor	NT2	triga-2-vienna reactor
NT3	wup-3 reactor	NT3	yonggwang-3 reactor	NT2	triga-3-munich reactor
NT3	wup-4 reactor	NT3	yonggwang-4 reactor	NT2	triga-3-salazar reactor
NT3	wup-5 reactor	NT3	zion-1 reactor	NT2	triga-3-seoul reactor
NT3	wup-6 reactor	NT3	zion-2 reactor	NT2	triga-brazil reactor
NT3	wwer type reactors	NT3	zorita-1 reactor	NT2	triga-texas reactor
NT4	armenian-1 reactor	NT2	r-1 reactor	NT2	triga-veterans reactor

NT2	triton reactor	NT3	kstr reactor	NT3	fitzpatrick reactor
NT2	trr-1 reactor	NT3	ncscr-1 reactor	NT3	forsmark-1 reactor
NT2	tz1 reactor	NT3	nevada university reactor	NT3	forsmark-2 reactor
NT2	tz2 reactor	NT3	prnc-l-77 reactor	NT3	forsmark-3 reactor
NT2	ucbrr reactor	NT3	supo reactor	NT3	fukushima-1 reactor
NT2	ufr reactor	NT3	wrrr reactor	NT3	fukushima-2 reactor
NT2	uhtrex reactor	NT2	argonaut type reactors	NT3	fukushima-3 reactor
NT2	uknr reactor	NT3	aeg-pr-10 reactor	NT3	fukushima-4 reactor
NT2	ulyse reactor	NT3	arbi reactor	NT3	fukushima-5 reactor
NT2	umne-1 reactor	NT3	argonaut reactor	NT3	fukushima-6 reactor
NT2	umrr reactor	NT3	argos reactor	NT3	fukushima-ii-1 reactor
NT2	urr reactor	NT3	athene reactor	NT3	fukushima-ii-2 reactor
NT2	utr-10-kinki reactor	NT3	jason reactor	NT3	fukushima-ii-3 reactor
NT2	utrr reactor	NT3	lfr reactor	NT3	fukushima-ii-4 reactor
NT2	uvar reactor	NT3	moata reactor	NT3	garigliano reactor
NT2	uwnr reactor	NT3	nestor reactor	NT3	garona reactor
NT2	uwtr reactor	NT3	queen mary college utr-b reactor	NT3	ge standard reactor
NT2	vandellos reactor	NT3	ra-1 reactor	NT3	graben-1 reactor
NT2	venus reactor	NT3	rb-2 reactor	NT3	graben-2 reactor
NT2	vg-400 reactor	NT3	rien-1 reactor	NT3	grand gulf-1 reactor
NT2	vgr-50 reactor	NT3	src-utr-100 reactor	NT3	grand gulf-2 reactor
NT2	vhtr reactor	NT3	stark reactor	NT3	gundremmingen-2 reactor
NT2	vidal-1 reactor	NT3	strasbourg-cronenbourg reactor	NT3	gundremmingen-3 reactor
NT2	vidal-2 reactor	NT3	ufr reactor	NT3	hamaoka-1 reactor
NT2	voronezh ast-500 reactor	NT3	ulyse reactor	NT3	hamaoka-2 reactor
NT2	vpi-utr-10 reactor	NT3	urr reactor	NT3	hamaoka-3 reactor
NT2	vr-1 reactor	NT3	utr-10-kinki reactor	NT3	hamaoka-4 reactor
NT2	wagr reactor	NT3	vpi-utr-10 reactor	NT3	hamaoka-5 reactor
NT2	windscale production reactors	NT2	astr reactor	NT3	hartsville-1 reactor
NT2	wpir reactor	NT2	atr reactor	NT3	hartsville-2 reactor
NT2	wr-1 reactor	NT2	atsr reactor	NT3	hartsville-3 reactor
NT2	wrrr reactor	NT2	borax-1 reactor	NT3	hartsville-4 reactor
NT2	wsur reactor	NT2	borax-2 reactor	NT3	hatch-1 reactor
NT2	wtr reactor	NT2	borax-3 reactor	NT3	hatch-2 reactor
NT2	wwr-2 reactor	NT2	borax-4 reactor	NT3	hdr reactor
NT2	wwr-k-almaty reactor	NT2	borax-5 reactor	NT3	hope creek-1 reactor
NT2	wwr-m-kiev reactor	NT2	br-02 reactor	NT4	newbold island-1 reactor
NT2	wwr-m-leningrad reactor	NT2	br-2 reactor	NT3	hope creek-2 reactor
NT2	wwr-s-bucharest reactor	NT2	br-3-vn reactor	NT4	newbold island-2 reactor
NT2	wwr-s-budapest reactor	NT2	br-3-vn reactor	NT3	humboldt bay reactor
NT2	wwr-s-cairo reactor	NT2	bwr type reactors	NT3	isar reactor
NT2	wwr-s-moscow reactor	NT3	allens creek-1 reactor	NT3	isard-2 reactor
NT2	wwr-s-prague reactor	NT3	allens creek-2 reactor	NT3	jpdr reactor
NT2	wwr-s-prague reactor	NT3	bailly-1 reactor	NT3	jpdr reactor
NT2	wwr-s-tashkent reactor	NT3	barsebaeck-1 reactor	NT3	kaiseraugst reactor
NT2	wwr-sm rossendorf reactor	NT3	barsebaeck-2 reactor	NT3	kashiwazaki-kariwa-1 reactor
NT2	wwr-z reactor	NT3	barton-1 reactor	NT3	kashiwazaki-kariwa-2 reactor
NT2	wylfa reactor	NT3	barton-2 reactor	NT3	kashiwazaki-kariwa-3 reactor
NT2	x-10 reactor	NT3	barton-3 reactor	NT3	kashiwazaki-kariwa-4 reactor
NT2	zed-2 reactor	NT3	barton-4 reactor	NT3	kashiwazaki-kariwa-5 reactor
NT2	zenith reactor	NT3	bell reactor	NT3	kashiwazaki-kariwa-6 reactor
NT2	zerlina reactor	NT3	big rock point reactor	NT3	kashiwazaki-kariwa-7 reactor
NT2	zlfr reactor	NT3	black fox-1 reactor	NT3	kruemmel reactor
NT2	zpr reactor	NT3	black fox-2 reactor	NT3	kuosheng-1 reactor
NT1	thorium reactors	NT3	bolsa chica-1 reactor	NT3	kuosheng-2 reactor
NT2	avr reactor	NT3	bolsa chica-2 reactor	NT3	la salle county-1 reactor
NT2	borax-4 reactor	NT3	bonus reactor	NT3	la salle county-2 reactor
NT2	dragon reactor	NT3	browns ferry-1 reactor	NT3	lacbwr reactor
NT2	err reactor	NT3	browns ferry-2 reactor	NT3	laguna verde-1 reactor
NT2	sre reactor	NT3	browns ferry-3 reactor	NT3	laguna verde-2 reactor
NT2	thtr-300 reactor	NT3	brunsbuettel reactor	NT3	leibstadt reactor
NT1	transportable reactors	NT3	brunswick-1 reactor	NT3	limerick-1 reactor
NT2	package reactors	NT3	brunswick-2 reactor	NT3	limerick-2 reactor
NT2	tibr reactor	NT3	chinshan-1 reactor	NT3	lingen reactor
NT1	water cooled reactors	NT3	chinshan-2 reactor	NT3	mendocino-1 reactor
NT2	aarr reactor	NT3	clinton-1 reactor	NT3	mendocino-2 reactor
NT2	acpr reactor	NT3	clinton-2 reactor	NT3	millstone-1 reactor
NT2	anna reactor	NT3	cofrentes reactor	NT3	montague-1 reactor
NT2	aqueous homogeneous reactors	NT3	cooper reactor	NT3	montague-2 reactor
NT3	ai-l-77 reactor	NT3	dodewaard reactor	NT3	montalto di castro-1 reactor
NT3	argus reactor	NT3	douglas point-1 reactor	NT3	montalto di castro-2 reactor
NT3	ber-2 reactor	NT3	douglas point-2 reactor	NT3	monticello reactor
NT3	byu l-77 reactor	NT3	dresden-1 reactor	NT3	muehleberg reactor
NT3	cesnef reactor	NT3	dresden-2 reactor	NT3	nine mile point-1 reactor
NT3	dr-1 reactor	NT3	dresden-3 reactor	NT3	nine mile point-2 reactor
NT3	frf reactor	NT3	duane arnold-1 reactor	NT3	okg-1 reactor
NT3	gidra reactor	NT3	ebwr reactor	NT3	okg-2 reactor
NT3	hre-2 reactor	NT3	enel-4 reactor	NT3	okg-3 reactor
NT3	jrr-1 reactor	NT3	enrico fermi-2 reactor	NT3	olkiluoto-1 reactor
NT3	kewb reactor	NT3	err reactor	NT3	olkiluoto-2 reactor

NT3	onagawa-1 reactor	NT3	kursk-3 reactor	NT3	ir-100 reactor
NT3	onagawa-2 reactor	NT3	kursk-4 reactor	NT3	irl reactor
NT3	onagawa-3 reactor	NT3	leningrad-1 reactor	NT3	irr-1 reactor
NT3	oyster creek-1 reactor	NT3	leningrad-2 reactor	NT3	irt-2000 djakarta reactor
NT3	pathfinder reactor	NT3	leningrad-3 reactor	NT3	irt-2000 moscow reactor
NT3	peach bottom-2 reactor	NT3	leningrad-4 reactor	NT3	irt-c reactor
NT3	peach bottom-3 reactor	NT3	n-reactor	NT3	irt-f reactor
NT3	perry-1 reactor	NT3	rpi reactor	NT3	irt reactor
NT3	perry-2 reactor	NT3	smolensk-1 reactor	NT3	irt-sofia reactor
NT3	philippsburg-1 reactor	NT3	smolensk-2 reactor	NT3	isis reactor
NT3	phippis bend-1 reactor	NT3	smolensk-3 reactor	NT3	ivv-2m reactor
NT3	phippis bend-2 reactor	NT3	uwtr reactor	NT3	ivv-7 reactor
NT3	pilgrim-1 reactor	NT2	maple reactor	NT3	jen-1 reactor
NT3	quad cities-1 reactor	NT2	maple type reactors	NT3	jen-2 reactor
NT3	quad cities-2 reactor	NT2	mir reactor	NT3	jen reactor
NT3	ringhals-1 reactor	NT2	mnsr type reactors	NT3	jrr-3m reactor
NT3	river bend-1 reactor	NT3	gharr-1 reactor	NT3	jrr-4 reactor
NT3	river bend-2 reactor	NT3	mnsr-ciae reactor	NT3	jules horowitz reactor
NT3	rwe-bayernwerk reactor	NT3	mnsr-sd reactor	NT3	kur reactor
NT3	shika-1 reactor	NT3	mnsr-sh reactor	NT3	la reina rech-1 reactor
NT3	shimane-1 reactor	NT3	mnsr-sz reactor	NT3	lido reactor
NT3	shimane-2 reactor	NT3	nirr-1 reactor	NT3	lo aguirre rech-2 reactor
NT3	shoreham reactor	NT3	parr-2 reactor	NT3	lpr reactor
NT3	skagit-1 reactor	NT3	srr-1 reactor	NT3	lptr reactor
NT3	skagit-2 reactor	NT2	mrr reactor	NT3	lr-0 reactor
NT3	sl-1 reactor	NT2	mtr reactor	NT3	ltir reactor
NT3	susquehanna-1 reactor	NT2	murr reactor	NT3	maria reactor
NT3	susquehanna-2 reactor	NT2	netr reactor	NT3	maryla reactor
NT3	tarapur-1 reactor	NT2	nhr-5 reactor	NT3	melusine-1 reactor
NT3	tarapur-2 reactor	NT2	nsrr reactor	NT3	merlin reactor
NT3	tokai-2 reactor	NT2	ntr reactor	NT3	minerve reactor
NT3	tsuruga reactor	NT2	orphee reactor	NT3	mnr reactor
NT3	tullnerfeld reactor	NT2	orr reactor	NT3	nscr reactor
NT3	vak reactor	NT2	osiris reactor	NT3	nur reactor
NT3	vbwr reactor	NT2	owr reactor	NT3	opal reactor
NT3	vermont yankee reactor	NT2	pbr reactor	NT3	osur reactor
NT3	verplanck-1 reactor	NT2	pegase reactor	NT3	parr-1 reactor
NT3	verplanck-2 reactor	NT2	peggy reactor	NT3	phebus reactor
NT3	vk-50 reactor	NT2	perryman-1 reactor	NT3	pik physical model reactor
NT3	wnp-2 reactor	NT2	perryman-2 reactor	NT3	prpr reactor
NT3	wuergassen reactor	NT2	pool type reactors	NT3	prr-1 reactor
NT3	zimmer-1 reactor	NT3	agata reactor	NT3	pstr reactor
NT3	zimmer-2 reactor	NT3	apsara reactor	NT3	ptr reactor
NT2	ciurus reactor	NT3	armf-1 reactor	NT3	pulstar-buffalo reactor
NT2	esada-vesr reactor	NT3	astra reactor	NT3	pulstar-raleigh reactor
NT2	etr reactor	NT3	atrc reactor	NT3	pur-1 reactor
NT2	evsr reactor	NT3	avogadro rs-1 reactor	NT3	r2-0 reactor
NT2	ewa reactor	NT3	barn reactor	NT3	ra-6 reactor
NT2	ewg-1 reactor	NT3	bawtr reactor	NT3	ra-8 reactor
NT2	getr reactor	NT3	ber-2 reactor	NT3	rana reactor
NT2	hclwr type reactors	NT3	brr reactor	NT3	rinsc reactor
NT2	hfetr reactor	NT3	bsr-1 reactor	NT3	ritmo reactor
NT2	hfir reactor	NT3	bsr-2 reactor	NT3	rp-10 reactor
NT2	hfr reactor	NT3	cabri reactor	NT3	rts-1 reactor
NT2	hwlwr type reactors	NT3	consort-2 reactor	NT3	rv-1 reactor
NT3	cirene reactor	NT3	cp-6 reactor	NT3	saphir reactor
NT3	gentilly reactor	NT3	crocus reactor	NT3	scarabee reactor
NT3	jatr reactor	NT3	democritus reactor	NT3	siloe reactor
NT2	igr reactor	NT3	dr-2 reactor	NT3	siloe reactor
NT2	iowa utr-10 reactor	NT3	etrc reactor	NT3	silhouette reactor
NT2	janus reactor	NT3	etrr-2 reactor	NT3	slowpoke type reactors
NT2	jmtr reactor	NT3	fmr reactor	NT4	slowpoke-alberta reactor
NT2	kamini reactor	NT3	fnr reactor	NT4	slowpoke-dalhousie reactor
NT2	kuhfr reactor	NT3	frg-1 reactor	NT4	slowpoke-montreal reactor
NT2	litr reactor	NT3	frg-2 reactor	NT4	slowpoke-toronto reactor
NT2	lwbr type reactors	NT3	frj-1 reactor	NT4	slowpoke-wvre reactor
NT2	lwgr type reactors	NT3	frm-ii reactor	NT3	spert-4 reactor
NT3	aps reactor	NT3	frm reactor	NT3	stek reactor
NT3	beloyarsk-1 reactor	NT3	frn reactor	NT3	stir reactor
NT3	beloyarsk-2 reactor	NT3	ga siwabessy reactor	NT3	swierk r-2 reactor
NT3	bilibin reactor	NT3	gtr reactor	NT3	thetis reactor
NT3	chernobylsk-1 reactor	NT3	gulfriga-mk-3 reactor	NT3	thor reactor
NT3	chernobylsk-2 reactor	NT3	hanaro reactor	NT3	toshiba reactor
NT3	chernobylsk-3 reactor	NT3	herald reactor	NT3	tr-1 reactor
NT3	chernobylsk-4 reactor	NT3	horace reactor	NT3	tr-2 reactor
NT3	ignalina-1 reactor	NT3	horace reactor	NT3	triton reactor
NT3	ignalina-2 reactor	NT3	htr reactor	NT3	trr-1 reactor
NT3	kursk-1 reactor	NT3	ian-r1 reactor	NT3	tz1 reactor
NT3	kursk-2 reactor	NT3	iear-1 reactor	NT3	tz2 reactor

NT3	uknr reactor	NT3	cook-2 reactor	NT3	lemoniz-2 reactor
NT3	umne-1 reactor	NT3	cruas-2 reactor	NT3	lenin reactor
NT3	umrr reactor	NT3	cruas-3 reactor	NT3	leonid brezhnev reactor
NT3	utrr reactor	NT3	cruas-4 reactor	NT3	lingao-1 reactor
NT3	uvar reactor	NT3	crystal river-3 reactor	NT3	lingao-2 reactor
NT3	uwnr reactor	NT3	crystal river-4 reactor	NT3	loft reactor
NT3	vr-1 reactor	NT3	dampierre-1 reactor	NT3	lucie-1 reactor
NT3	wpir reactor	NT3	dampierre-2 reactor	NT3	lucie-2 reactor
NT3	wsur reactor	NT3	dampierre-3 reactor	NT3	maanshan-1 reactor
NT3	xapr reactor	NT3	dampierre-4 reactor	NT3	maine yankee reactor
NT2	purnima-3 reactor	NT3	davis besse-1 reactor	NT3	malibu-1 reactor
NT2	pwr type reactors	NT3	davis besse-2 reactor	NT3	marble hill-1 reactor
NT3	aguirre reactor	NT3	davis besse-3 reactor	NT3	marble hill-2 reactor
NT3	almaraz-1 reactor	NT3	daya bay-1 reactor	NT3	mc guire-1 reactor
NT3	almaraz-2 reactor	NT3	daya bay-2 reactor	NT3	mc guire-2 reactor
NT3	angra-1 reactor	NT3	diablo canyon-1 reactor	NT3	mh-1a reactor
NT3	angra-2 reactor	NT3	diablo canyon-2 reactor	NT3	midland-1 reactor
NT3	angra-3 reactor	NT3	doel-1 reactor	NT3	midland-2 reactor
NT3	ardennes b-1 reactor	NT3	doel-2 reactor	NT3	mihama-1 reactor
NT3	ardennes b-2 reactor	NT3	doel-3 reactor	NT3	mihama-2 reactor
NT3	ardennes reactor	NT3	doel-4 reactor	NT3	mihama-3 reactor
NT3	arkansas-1 reactor	NT3	efdr-50 reactor	NT3	millstone-2 reactor
NT3	arkansas-2 reactor	NT3	emsland reactor	NT3	millstone-3 reactor
NT3	asco-1 reactor	NT3	erie-1 reactor	NT3	muelheim-kaerlich reactor
NT3	asco-2 reactor	NT3	erie-2 reactor	NT3	mutsu reactor
NT3	atlantic-1 reactor	NT3	erie-3 reactor	NT3	nekar-1 reactor
NT3	atlantic-2 reactor	NT3	farley-1 reactor	NT3	nekar-2 reactor
NT3	basf-1 reactor	NT3	farley-2 reactor	NT3	nep-1 reactor
NT3	basf-2 reactor	NT3	fessenheim-1 reactor	NT3	nep-2 reactor
NT3	beaver valley-1 reactor	NT3	flamanville-1 reactor	NT3	neupotz-1 reactor
NT3	beaver valley-2 reactor	NT3	flamanville-2 reactor	NT3	neupotz-2 reactor
NT3	bellefonte-1 reactor	NT3	forked river-1 reactor	NT3	nogent sur seine-1 reactor
NT3	bellefonte-2 reactor	NT3	genkai-1 reactor	NT3	nogent sur seine-2 reactor
NT3	belleville sur loire-1 reactor	NT3	genkai-2 reactor	NT3	north anna-1 reactor
NT3	belleville sur loire-2 reactor	NT3	genkai-3 reactor	NT3	north anna-2 reactor
NT3	beznau-1 reactor	NT3	genkai-4 reactor	NT3	north anna-3 reactor
NT3	beznau-2 reactor	NT3	ginna-1 reactor	NT3	north anna-4 reactor
NT3	biblis-1 reactor	NT3	goesgen reactor	NT3	north coast-1 reactor
NT3	biblis-2 reactor	NT3	golfech-1 reactor	NT3	obrigheim reactor
NT3	biblis-3 reactor	NT3	golfech-2 reactor	NT3	oconee-1 reactor
NT3	biblis-4 reactor	NT3	grafenrheinfeld reactor	NT3	oconee-2 reactor
NT3	blayais-1 reactor	NT3	gravelines-1 reactor	NT3	oconee-3 reactor
NT3	blue hills-1 reactor	NT3	gravelines-2 reactor	NT3	oi-1 reactor
NT3	blue hills-2 reactor	NT3	gravelines-3 reactor	NT3	oi-2 reactor
NT3	borssele reactor	NT3	gravelines-4 reactor	NT3	oi-3 reactor
NT3	br-3 reactor	NT3	gravelines-5 reactor	NT3	oi-4 reactor
NT3	braidwood-1 reactor	NT3	gravelines-6 reactor	NT3	oktembryan-2 reactor
NT3	braidwood-2 reactor	NT3	greene county reactor	NT3	olkiluoto-3 reactor
NT3	brokdorf reactor	NT3	greenwood-2 reactor	NT3	otto hahn reactor
NT3	bugey-2 reactor	NT3	greenwood-3 reactor	NT3	palisades-1 reactor
NT3	bugey-3 reactor	NT3	grohnde reactor	NT3	palo verde-1 reactor
NT3	bugey-4 reactor	NT3	hamm-uentrop reactor	NT3	palo verde-2 reactor
NT3	bugey-5 reactor	NT3	harris-1 reactor	NT3	palo verde-3 reactor
NT3	bw standard reactor	NT3	harris-2 reactor	NT3	palo verde-4 reactor
NT3	byron-1 reactor	NT3	harris-3 reactor	NT3	palo verde-5 reactor
NT3	byron-2 reactor	NT3	harris-4 reactor	NT3	paluel-1 reactor
NT3	calhoun-1 reactor	NT3	haven-1 reactor	NT3	paluel-2 reactor
NT3	calhoun-2 reactor	NT4	koshkonong-1 reactor	NT3	paluel-3 reactor
NT3	callaway-1 reactor	NT3	haven-2 reactor	NT3	paluel-4 reactor
NT3	callaway-2 reactor	NT4	koshkonong-2 reactor	NT3	pat reactor
NT3	calvert cliffs-1 reactor	NT3	ikata-2 reactor	NT3	pebble springs-1 reactor
NT3	calvert cliffs-2 reactor	NT3	ikata-3 reactor	NT3	pebble springs-2 reactor
NT3	catawba-1 reactor	NT3	ikata reactor	NT3	penly-1 reactor
NT3	catawba-2 reactor	NT3	indian point-1 reactor	NT3	perkins-1 reactor
NT3	cattenom-1 reactor	NT3	indian point-2 reactor	NT3	perkins-2 reactor
NT3	cattenom-2 reactor	NT3	indian point-3 reactor	NT3	perkins-3 reactor
NT3	cattenom-3 reactor	NT3	iran-1 reactor	NT3	philippsburg-2 reactor
NT3	cattenom-4 reactor	NT3	iran-2 reactor	NT3	pilgrim-2 reactor
NT3	ce standard reactor	NT3	isar-2 reactor	NT3	pilgrim-3 reactor
NT3	cherokee-1 reactor	NT3	jamesport-1 reactor	NT3	pm-2a reactor
NT3	cherokee-2 reactor	NT3	jamesport-2 reactor	NT3	pm-3a reactor
NT3	cherokee-3 reactor	NT3	kewaunee reactor	NT3	pnp-1 reactor
NT3	chinon-b1 reactor	NT3	koeberg-1 reactor	NT3	point beach-1 reactor
NT3	civaux-1 reactor	NT3	koeberg-2 reactor	NT3	point beach-2 reactor
NT3	civaux-2 reactor	NT3	kori-1 reactor	NT3	prairie island-1 reactor
NT3	comanche peak-1 reactor	NT3	kori-2 reactor	NT3	prairie island-2 reactor
NT3	comanche peak-2 reactor	NT3	kori-3 reactor	NT3	qinshan-1 reactor
NT3	connecticut yankee reactor	NT3	kori-4 reactor	NT3	qinshan-2-1 reactor
NT3	cook-1 reactor	NT3	krsko reactor	NT3	qinshan-2-2 reactor
		NT3	lemoniz-1 reactor		

NT3	quanicassee-1 reactor	NT3	waterford-3 reactor	NT4	zaporozhe-3 reactor
NT3	quanicassee-2 reactor	NT3	waterford-4 reactor	NT4	zaporozhe-4 reactor
NT3	rancho seco-1 reactor	NT3	watts bar-1 reactor	NT4	zaporozhe-5 reactor
NT3	remerschen reactor	NT3	watts bar-2 reactor	NT4	zaporozhe-6 reactor
NT3	rheinsberg akw1 reactor	NT3	westinghouse standard reactor	NT3	wyhl-1 reactor
NT3	ringhals-2 reactor	NT3	wnp-1 reactor	NT3	wyhl-2 reactor
NT3	ringhals-3 reactor	NT3	wnp-3 reactor	NT3	yellow creek-1 reactor
NT3	ringhals-4 reactor	NT3	wnp-4 reactor	NT3	yellow creek-2 reactor
NT3	robinson-2 reactor	NT3	wnp-5 reactor	NT3	yonggwang-1 reactor
NT3	rooppur reactor	NT3	wolf creek-1 reactor	NT3	yonggwang-2 reactor
NT3	rowe yankee reactor	NT3	wup-3 reactor	NT3	yonggwang-3 reactor
NT3	s1c prototype reactor	NT3	wup-4 reactor	NT3	yonggwang-4 reactor
NT3	saint alban-1 reactor	NT3	wup-5 reactor	NT3	zion-1 reactor
NT3	saint alban-2 reactor	NT3	wup-6 reactor	NT3	zion-2 reactor
NT3	saint laurent-b1 reactor	NT3	wwer type reactors	NT3	zorita-1 reactor
NT3	salem-1 reactor	NT4	armenian-1 reactor	NT2	r-2 reactor
NT3	salem-2 reactor	NT4	armenian-2 reactor	NT2	ra-5 reactor
NT3	san onofre-1 reactor	NT4	balakovo-1 reactor	NT2	rg-1m reactor
NT3	san onofre-2 reactor	NT4	balakovo-2 reactor	NT2	safari-1 reactor
NT3	san onofre-3 reactor	NT4	balakovo-3 reactor	NT2	sghwr reactor
NT3	savannah reactor	NT4	balakovo-4 reactor	NT2	sm-2 reactor
NT3	saxton reactor	NT4	blahutovice-1 reactor	NT2	spert-2 reactor
NT3	seabrook-1 reactor	NT4	bohunice v-1 reactor	NT2	spert-3 reactor
NT3	seabrook-2 reactor	NT4	bohunice v-2 reactor	NT2	sr-1 reactor
NT3	selni reactor	NT4	dukovany-1 reactor	NT2	sr-3p reactor
NT3	sendai-1 reactor	NT4	dukovany-2 reactor	NT2	sr-oa reactor
NT3	sendai-2 reactor	NT4	dukovany-3 reactor	NT2	tca reactor
NT3	sequoyah-1 reactor	NT4	dukovany-4 reactor	NT2	triga type reactors
NT3	sequoyah-2 reactor	NT4	greifswald-1 reactor	NT3	afri reactor
NT3	shippingport reactor	NT4	greifswald-2 reactor	NT3	atpr reactor
NT3	sizewell-b reactor	NT4	greifswald-3 reactor	NT3	colorado triga-mk-3 reactor
NT3	sm-1 reactor	NT4	greifswald-4 reactor	NT3	cornell triga-mk-2 reactor
NT3	sm-1a reactor	NT4	greifswald-5 reactor	NT3	dow triga-mk-1 reactor
NT3	south texas project-1 reactor	NT4	greifswald-6 reactor	NT3	fir-1 reactor
NT3	south texas project-2 reactor	NT4	juragua-1 reactor	NT3	frf-2 reactor
NT3	stade reactor	NT4	kalinin-1 reactor	NT3	fn reactor
NT3	sterling-1 reactor	NT4	kalinin-3 reactor	NT3	gulf triga-mk-3 reactor
NT3	sterling-2 reactor	NT4	kecerovce-1 reactor	NT3	kartini-ppny reactor
NT3	summer-1 reactor	NT4	khmelnitskij-1 reactor	NT3	lopra reactor
NT3	sundesert-1 reactor	NT4	kola-1 reactor	NT3	nscr reactor
NT3	sundesert-2 reactor	NT4	kola-2 reactor	NT3	ostr reactor
NT3	surry-1 reactor	NT4	kola-3 reactor	NT3	prpr reactor
NT3	surry-2 reactor	NT4	kola-4 reactor	NT3	pstr reactor
NT3	surry-3 reactor	NT4	kozloduy-1 reactor	NT3	rtp reactor
NT3	surry-4 reactor	NT4	kozloduy-2 reactor	NT3	trico reactor
NT3	takahama-1 reactor	NT4	kozloduy-3 reactor	NT3	triga-1-arizona reactor
NT3	takahama-2 reactor	NT4	kozloduy-4 reactor	NT3	triga-1-california reactor
NT3	takahama-3 reactor	NT4	kozloduy-5 reactor	NT3	triga-1-hanford reactor
NT3	takahama-4 reactor	NT4	kozloduy-6 reactor	NT3	triga-1-hanover reactor
NT3	three mile island-1 reactor	NT4	kudankulam-1 reactor	NT3	triga-1-heidelberg reactor
NT3	three mile island-2 reactor	NT4	kudankulam-2 reactor	NT3	triga-1-michigan reactor
NT3	tihange-2 reactor	NT4	loviisa-1 reactor	NT3	triga-2-bandung reactor
NT3	tihange-3 reactor	NT4	loviisa-2 reactor	NT3	triga-2-bangladesh reactor
NT3	tihange reactor	NT4	mochovce-1 reactor	NT3	triga-2-dalat reactor
NT3	tomari-1 reactor	NT4	mochovce-2 reactor	NT3	triga-2-illinois reactor
NT3	tomari-2 reactor	NT4	novovoronezh-1 reactor	NT3	triga-2-kansas reactor
NT3	tricastin-1 reactor	NT4	novovoronezh-2 reactor	NT3	triga-2-ljubljana reactor
NT3	tricastin-4 reactor	NT4	novovoronezh-3 reactor	NT3	triga-2-mainz reactor
NT3	trillo-1 reactor	NT4	novovoronezh-4 reactor	NT3	triga-2-musashi reactor
NT3	trojan reactor	NT4	novovoronezh-5 reactor	NT3	triga-2-pavia reactor
NT3	tsuruga-2 reactor	NT4	paks-1 reactor	NT3	triga-2-pitesti reactor
NT3	turkey point-3 reactor	NT4	paks-2 reactor	NT3	triga-2 reactor
NT3	turkey point-4 reactor	NT4	paks-3 reactor	NT3	triga-2-rikkyo reactor
NT3	tva-1 reactor	NT4	paks-4 reactor	NT3	triga-2-rome reactor
NT3	tva-2 reactor	NT4	rovno-1 reactor	NT3	triga-2-seoul reactor
NT3	tyrone-1 reactor	NT4	rovno-2 reactor	NT3	triga-2-vienna reactor
NT3	tyrone-2 reactor	NT4	rovno-3 reactor	NT3	triga-3-la jolla reactor
NT3	ulchin-1 reactor	NT4	rovno-4 reactor	NT3	triga-3-munich reactor
NT3	ulchin-2 reactor	NT4	rovno-5 reactor	NT3	triga-3-salazar reactor
NT3	ulchin-3 reactor	NT4	south ukrainian-1 reactor	NT3	triga-3-seoul reactor
NT3	ulchin-4 reactor	NT4	south ukrainian-2 reactor	NT3	triga-brazil reactor
NT3	unterweser reactor	NT4	south ukrainian-3 reactor	NT3	triga-texas reactor
NT3	vahnum-1 reactor	NT4	stendal-1 reactor	NT3	triga-veterans reactor
NT3	vahnum-2 reactor	NT4	tatarian reactor	NT3	ucbrr reactor
NT3	vandellos-2 reactor	NT4	temelin-1 reactor	NT3	uwnr reactor
NT3	vogtle-1 reactor	NT4	temelin-2 reactor	NT3	wsur reactor
NT3	vogtle-2 reactor	NT4	tianwan-1 reactor	NT2	tsr-2 reactor
NT3	vogtle-3 reactor	NT4	zaporozhe-1 reactor	NT2	venus reactor
NT3	vogtle-4 reactor	NT4	zaporozhe-2 reactor	NT2	voronezh ast-500 reactor

NT2	wntr reactor	NT3	bailly-1 reactor	NT3	jpdr reactor
NT2	wtr reactor	NT3	barsebaeck-1 reactor	NT3	kaiseraugst reactor
NT2	wwr type reactors	NT3	barsebaeck-2 reactor	NT3	kashiwazaki-kariwa-1 reactor
NT3	budapest training reactor	NT3	barton-1 reactor	NT3	kashiwazaki-kariwa-2 reactor
NT3	irt-1 libya reactor	NT3	barton-2 reactor	NT3	kashiwazaki-kariwa-3 reactor
NT3	irt-baghdad reactor	NT3	barton-3 reactor	NT3	kashiwazaki-kariwa-4 reactor
NT3	lvr-15 reactor	NT3	barton-4 reactor	NT3	kashiwazaki-kariwa-5 reactor
NT3	wwr-2 reactor	NT3	bell reactor	NT3	kashiwazaki-kariwa-6 reactor
NT3	wwr-k-almaty reactor	NT3	big rock point reactor	NT3	kashiwazaki-kariwa-7 reactor
NT3	wwr-m-kiev reactor	NT3	black fox-1 reactor	NT3	krummel reactor
NT3	wwr-m-leningrad reactor	NT3	black fox-2 reactor	NT3	kuosheng-1 reactor
NT3	wwr-s-bucharest reactor	NT3	bolsa chica-1 reactor	NT3	kuosheng-2 reactor
NT3	wwr-s-budapest reactor	NT3	bolsa chica-2 reactor	NT3	la salle county-1 reactor
NT3	wwr-s-cairo reactor	NT3	bonus reactor	NT3	la salle county-2 reactor
NT3	wwr-s-moscow reactor	NT3	browns ferry-1 reactor	NT3	labwr reactor
NT3	wwr-s-prague reactor	NT3	browns ferry-2 reactor	NT3	laguna verde-1 reactor
NT3	wwr-s-tashkent reactor	NT3	browns ferry-3 reactor	NT3	laguna verde-2 reactor
NT3	wwr-sm rossendorf reactor	NT3	brunsbuettel reactor	NT3	leibstadt reactor
NT3	wwr-z reactor	NT3	brunswick-1 reactor	NT3	limerick-1 reactor
NT2	zifr reactor	NT3	brunswick-2 reactor	NT3	limerick-2 reactor
NT2	zr-6 reactor	NT3	chinshan-1 reactor	NT3	lingen reactor
NT1	water moderated reactors	NT3	chinshan-2 reactor	NT3	mendocino-1 reactor
NT2	aarr reactor	NT3	clinton-1 reactor	NT3	mendocino-2 reactor
NT2	acpr reactor	NT3	clinton-2 reactor	NT3	millstone-1 reactor
NT2	anna reactor	NT3	cofrentes reactor	NT3	montague-1 reactor
NT2	aqueous homogeneous reactors	NT3	cooper reactor	NT3	montague-2 reactor
NT3	ai-1-77 reactor	NT3	dodewaard reactor	NT3	montalto di castro-1 reactor
NT3	argus reactor	NT3	douglas point-1 reactor	NT3	montalto di castro-2 reactor
NT3	ber-2 reactor	NT3	douglas point-2 reactor	NT3	monticello reactor
NT3	byu 1-77 reactor	NT3	dresden-1 reactor	NT3	muehleberg reactor
NT3	cesnef reactor	NT3	dresden-2 reactor	NT3	nine mile point-1 reactor
NT3	dr-1 reactor	NT3	dresden-3 reactor	NT3	nine mile point-2 reactor
NT3	frf reactor	NT3	duane arnold-1 reactor	NT3	okg-1 reactor
NT3	gidra reactor	NT3	ebwr reactor	NT3	okg-2 reactor
NT3	hre-2 reactor	NT3	enel-4 reactor	NT3	okg-3 reactor
NT3	jrr-1 reactor	NT3	enrico fermi-2 reactor	NT3	olkiluoto-1 reactor
NT3	kewb reactor	NT3	err reactor	NT3	olkiluoto-2 reactor
NT3	kstr reactor	NT3	fitzpatrick reactor	NT3	onagawa-1 reactor
NT3	ncscr-1 reactor	NT3	forsmark-1 reactor	NT3	onagawa-2 reactor
NT3	nevada university reactor	NT3	forsmark-2 reactor	NT3	onagawa-3 reactor
NT3	prnc-1-77 reactor	NT3	forsmark-3 reactor	NT3	oyster creek-1 reactor
NT3	supo reactor	NT3	fukushima-1 reactor	NT3	pathfinder reactor
NT3	wrrr reactor	NT3	fukushima-2 reactor	NT3	peach bottom-2 reactor
NT2	argonaut type reactors	NT3	fukushima-3 reactor	NT3	peach bottom-3 reactor
NT3	aeg-pr-10 reactor	NT3	fukushima-4 reactor	NT3	perry-1 reactor
NT3	arbi reactor	NT3	fukushima-5 reactor	NT3	perry-2 reactor
NT3	argonaut reactor	NT3	fukushima-6 reactor	NT3	philippsburg-1 reactor
NT3	argos reactor	NT3	fukushima-ii-1 reactor	NT3	phipps bend-1 reactor
NT3	athene reactor	NT3	fukushima-ii-2 reactor	NT3	phipps bend-2 reactor
NT3	jason reactor	NT3	fukushima-ii-3 reactor	NT3	pilgrim-1 reactor
NT3	lfr reactor	NT3	fukushima-ii-4 reactor	NT3	quad cities-1 reactor
NT3	moata reactor	NT3	garigliano reactor	NT3	quad cities-2 reactor
NT3	nestor reactor	NT3	garona reactor	NT3	ringhals-1 reactor
NT3	queen mary college utr-b reactor	NT3	ge standard reactor	NT3	river bend-1 reactor
NT3	ra-1 reactor	NT3	graben-1 reactor	NT3	river bend-2 reactor
NT3	rb-2 reactor	NT3	graben-2 reactor	NT3	rwe-bayernwerk reactor
NT3	rien-1 reactor	NT3	grand gulf-1 reactor	NT3	shika-1 reactor
NT3	srcc-utr-100 reactor	NT3	grand gulf-2 reactor	NT3	shimane-1 reactor
NT3	stark reactor	NT3	gundremmingen-2 reactor	NT3	shimane-2 reactor
NT3	strasbourg-cronenbourg reactor	NT3	gundremmingen-3 reactor	NT3	shoreham reactor
NT3	ufr reactor	NT3	hamaoka-1 reactor	NT3	skagit-1 reactor
NT3	ulyse reactor	NT3	hamaoka-2 reactor	NT3	skagit-2 reactor
NT3	urr reactor	NT3	hamaoka-3 reactor	NT3	sl-1 reactor
NT3	utr-10-kinki reactor	NT3	hamaoka-4 reactor	NT3	susquehanna-1 reactor
NT3	vpi-utr-10 reactor	NT3	hamaoka-5 reactor	NT3	susquehanna-2 reactor
NT2	astr reactor	NT3	hartsville-1 reactor	NT3	tarapur-1 reactor
NT2	atr reactor	NT3	hartsville-2 reactor	NT3	tarapur-2 reactor
NT2	atsr reactor	NT3	hartsville-3 reactor	NT3	tokai-2 reactor
NT2	borax-1 reactor	NT3	hartsville-4 reactor	NT3	tsuruga reactor
NT2	borax-2 reactor	NT3	hatch-1 reactor	NT3	tullnerfeld reactor
NT2	borax-3 reactor	NT3	hatch-2 reactor	NT3	vak reactor
NT2	borax-4 reactor	NT3	hdr reactor	NT3	vbwr reactor
NT2	borax-5 reactor	NT3	hope creek-1 reactor	NT3	vermont yankee reactor
NT2	br-02 reactor	NT4	newbold island-1 reactor	NT3	verplanck-1 reactor
NT2	br-2 reactor	NT3	hope creek-2 reactor	NT3	verplanck-2 reactor
NT2	br-3-vn reactor	NT4	newbold island-2 reactor	NT3	vk-50 reactor
NT2	bwr type reactors	NT3	humboldt bay reactor	NT3	wnp-2 reactor
NT3	allens creek-1 reactor	NT3	isar reactor	NT3	wuergassen reactor
NT3	allens creek-2 reactor	NT3	jpdr-2 reactor	NT3	zimmer-1 reactor

NT3	zimmer-2 reactor	NT3	frn reactor	NT3	stir reactor
NT2	esada-vesr reactor	NT3	ga siwabessy reactor	NT3	swierk r-2 reactor
NT2	etr reactor	NT3	gtr reactor	NT3	thetis reactor
NT2	evsr reactor	NT3	gulfr triga-mk-3 reactor	NT3	thor reactor
NT2	ewa reactor	NT3	hanaro reactor	NT3	toshiba reactor
NT2	ewg-1 reactor	NT3	herald reactor	NT3	tr-1 reactor
NT2	gcre reactor	NT3	hor reactor	NT3	tr-2 reactor
NT2	getr reactor	NT3	horace reactor	NT3	triton reactor
NT2	hclwr type reactors	NT3	htr reactor	NT3	trr-1 reactor
NT2	hfetr reactor	NT3	ian-r1 reactor	NT3	tz1 reactor
NT2	hfir reactor	NT3	iear-1 reactor	NT3	tz2 reactor
NT2	hfr reactor	NT3	ir-100 reactor	NT3	uknr reactor
NT2	igr reactor	NT3	irl reactor	NT3	umne-1 reactor
NT2	janus reactor	NT3	irr-1 reactor	NT3	umrr reactor
NT2	jmtr reactor	NT3	irt-2000 djakarta reactor	NT3	utr reactor
NT2	juno reactor	NT3	irt-2000 moscow reactor	NT3	uvar reactor
NT2	kamini reactor	NT3	irt-c reactor	NT3	uwnr reactor
NT2	kuca reactor	NT3	irt-f reactor	NT3	vr-1 reactor
NT2	kuhfr reactor	NT3	irt reactor	NT3	wpir reactor
NT2	litr reactor	NT3	irt-sofia reactor	NT3	wsur reactor
NT2	lwbr type reactors	NT3	isis reactor	NT3	xapr reactor
NT2	lwor type reactors	NT3	ivv-2m reactor	NT2	pumima-3 reactor
NT2	maple reactor	NT3	ivv-7 reactor	NT2	pwr type reactors
NT2	maple type reactors	NT3	jen-1 reactor	NT3	aguirre reactor
NT2	mir reactor	NT3	jen-2 reactor	NT3	almaraz-1 reactor
NT2	ml-1 reactor	NT3	jen reactor	NT3	almaraz-2 reactor
NT2	mnsr type reactors	NT3	jrr-3m reactor	NT3	angra-1 reactor
NT3	gharr-1 reactor	NT3	jrr-4 reactor	NT3	angra-2 reactor
NT3	mnsr-clae reactor	NT3	jules horowitz reactor	NT3	angra-3 reactor
NT3	mnsr-sd reactor	NT3	kur reactor	NT3	ardennes b-1 reactor
NT3	mnsr-sh reactor	NT3	la reina rech-1 reactor	NT3	ardennes b-2 reactor
NT3	mnsr-sz reactor	NT3	lido reactor	NT3	ardennes reactor
NT3	nirr-1 reactor	NT3	lo aguirre rech-2 reactor	NT3	arkansas-1 reactor
NT3	parr-2 reactor	NT3	lpr reactor	NT3	arkansas-2 reactor
NT3	srr-1 reactor	NT3	lptr reactor	NT3	asco-1 reactor
NT2	mrr reactor	NT3	lr-0 reactor	NT3	asco-2 reactor
NT2	mtr reactor	NT3	ltir reactor	NT3	atlantic-1 reactor
NT2	murr reactor	NT3	maria reactor	NT3	atlantic-2 reactor
NT2	netr reactor	NT3	maryla reactor	NT3	basf-1 reactor
NT2	nhr-5 reactor	NT3	melusine-1 reactor	NT3	basf-2 reactor
NT2	nsrr reactor	NT3	merlin reactor	NT3	beaver valley-1 reactor
NT2	ntr reactor	NT3	minerve reactor	NT3	beaver valley-2 reactor
NT2	nuclear furnace reactor	NT3	mnr reactor	NT3	bellefonte-1 reactor
NT2	orr reactor	NT3	nscr reactor	NT3	bellefonte-2 reactor
NT2	osiris reactor	NT3	nur reactor	NT3	belleville sur loire-1 reactor
NT2	owr reactor	NT3	opal reactor	NT3	belleville sur loire-2 reactor
NT2	pbr reactor	NT3	osur reactor	NT3	beznau-1 reactor
NT2	pegase reactor	NT3	parr-1 reactor	NT3	beznau-2 reactor
NT2	peggy reactor	NT3	phebus reactor	NT3	biblis-1 reactor
NT2	perryman-1 reactor	NT3	pik physical model reactor	NT3	biblis-2 reactor
NT2	perryman-2 reactor	NT3	prpr reactor	NT3	biblis-3 reactor
NT2	pool type reactors	NT3	prr-1 reactor	NT3	biblis-4 reactor
NT3	agata reactor	NT3	pstr reactor	NT3	blayais-1 reactor
NT3	apsara reactor	NT3	ptr reactor	NT3	blue hills-1 reactor
NT3	armf-1 reactor	NT3	pulstar-buffalo reactor	NT3	blue hills-2 reactor
NT3	astra reactor	NT3	pulstar-raleigh reactor	NT3	borssele reactor
NT3	atrc reactor	NT3	pur-1 reactor	NT3	br-3 reactor
NT3	avogadro rs-1 reactor	NT3	r2-0 reactor	NT3	braidwood-1 reactor
NT3	bam reactor	NT3	ra-6 reactor	NT3	braidwood-2 reactor
NT3	bawtr reactor	NT3	ra-8 reactor	NT3	brokdorf reactor
NT3	ber-2 reactor	NT3	rana reactor	NT3	bugey-2 reactor
NT3	brr reactor	NT3	rinsc reactor	NT3	bugey-3 reactor
NT3	bsr-1 reactor	NT3	ritmo reactor	NT3	bugey-4 reactor
NT3	bsr-2 reactor	NT3	rp-10 reactor	NT3	bugey-5 reactor
NT3	cabri reactor	NT3	rts-1 reactor	NT3	bw standard reactor
NT3	consort-2 reactor	NT3	rv-1 reactor	NT3	byron-1 reactor
NT3	cp-6 reactor	NT3	saphir reactor	NT3	byron-2 reactor
NT3	crocus reactor	NT3	scarabee reactor	NT3	calhoun-1 reactor
NT3	democritus reactor	NT3	siloe reactor	NT3	calhoun-2 reactor
NT3	dr-2 reactor	NT3	siloette reactor	NT3	callaway-1 reactor
NT3	etrc reactor	NT3	slowpoke type reactors	NT3	callaway-2 reactor
NT3	etr-2 reactor	NT4	slowpoke-alberta reactor	NT3	calvert cliffs-1 reactor
NT3	fmr reactor	NT4	slowpoke-dalhousie reactor	NT3	calvert cliffs-2 reactor
NT3	fmr reactor	NT4	slowpoke-montreal reactor	NT3	catawba-1 reactor
NT3	frg-1 reactor	NT4	slowpoke-ottawa reactor	NT3	catawba-2 reactor
NT3	frg-2 reactor	NT4	slowpoke-toronto reactor	NT3	cattenom-1 reactor
NT3	frj-1 reactor	NT4	slowpoke-wvre reactor	NT3	cattenom-2 reactor
NT3	frm-ii reactor	NT3	spert-4 reactor	NT3	cattenom-3 reactor
NT3	frm reactor	NT3	stek reactor	NT3	cattenom-4 reactor

NT3	ce standard reactor	NT3	jamesport-1 reactor	NT3	pilgrim-3 reactor
NT3	cherokee-1 reactor	NT3	jamesport-2 reactor	NT3	pm-2a reactor
NT3	cherokee-2 reactor	NT3	kewaunee reactor	NT3	pm-3a reactor
NT3	cherokee-3 reactor	NT3	koeberg-1 reactor	NT3	pnpp-1 reactor
NT3	chinon-b1 reactor	NT3	koeberg-2 reactor	NT3	point beach-1 reactor
NT3	civaux-1 reactor	NT3	kori-1 reactor	NT3	point beach-2 reactor
NT3	civaux-2 reactor	NT3	kori-2 reactor	NT3	prairie island-1 reactor
NT3	comanche peak-1 reactor	NT3	kori-3 reactor	NT3	prairie island-2 reactor
NT3	comanche peak-2 reactor	NT3	kori-4 reactor	NT3	qinshan-1 reactor
NT3	connecticut yankee reactor	NT3	krsko reactor	NT3	qinshan-2-1 reactor
NT3	cook-1 reactor	NT3	lemoniz-1 reactor	NT3	qinshan-2-2 reactor
NT3	cook-2 reactor	NT3	lemoniz-2 reactor	NT3	quanicassee-1 reactor
NT3	cruas-2 reactor	NT3	lenin reactor	NT3	quanicassee-2 reactor
NT3	cruas-3 reactor	NT3	leonid brezhnev reactor	NT3	rancho seco-1 reactor
NT3	cruas-4 reactor	NT3	lingao-1 reactor	NT3	remerschen reactor
NT3	crystal river-3 reactor	NT3	lingao-2 reactor	NT3	rheinsberg akw1 reactor
NT3	crystal river-4 reactor	NT3	loft reactor	NT3	ringhals-2 reactor
NT3	dampierre-1 reactor	NT3	lucie-1 reactor	NT3	ringhals-3 reactor
NT3	dampierre-2 reactor	NT3	lucie-2 reactor	NT3	ringhals-4 reactor
NT3	dampierre-3 reactor	NT3	maanshan-1 reactor	NT3	robinson-2 reactor
NT3	dampierre-4 reactor	NT3	maine yankee reactor	NT3	rooppur reactor
NT3	davis besse-1 reactor	NT3	malibu-1 reactor	NT3	rowe yankee reactor
NT3	davis besse-2 reactor	NT3	marble hill-1 reactor	NT3	s1c prototype reactor
NT3	davis besse-3 reactor	NT3	marble hill-2 reactor	NT3	saint alban-1 reactor
NT3	daya bay-1 reactor	NT3	mc guire-1 reactor	NT3	saint alban-2 reactor
NT3	daya bay-2 reactor	NT3	mc guire-2 reactor	NT3	saint laurent-b1 reactor
NT3	diablo canyon-1 reactor	NT3	mh-1a reactor	NT3	salem-1 reactor
NT3	diablo canyon-2 reactor	NT3	midland-1 reactor	NT3	salem-2 reactor
NT3	doel-1 reactor	NT3	midland-2 reactor	NT3	san onofre-1 reactor
NT3	doel-2 reactor	NT3	mihama-1 reactor	NT3	san onofre-2 reactor
NT3	doel-3 reactor	NT3	mihama-2 reactor	NT3	san onofre-3 reactor
NT3	doel-4 reactor	NT3	mihama-3 reactor	NT3	savannah reactor
NT3	efdr-50 reactor	NT3	millstone-2 reactor	NT3	saxton reactor
NT3	emsland reactor	NT3	millstone-3 reactor	NT3	seabrook-1 reactor
NT3	erie-1 reactor	NT3	muelheim-kaerlich reactor	NT3	seabrook-2 reactor
NT3	erie-2 reactor	NT3	mutsu reactor	NT3	selni reactor
NT3	farley-1 reactor	NT3	neckar-1 reactor	NT3	sendai-1 reactor
NT3	farley-2 reactor	NT3	neckar-2 reactor	NT3	sendai-2 reactor
NT3	fessenheim-1 reactor	NT3	nep-1 reactor	NT3	sequoyah-1 reactor
NT3	flamanville-1 reactor	NT3	nep-2 reactor	NT3	sequoyah-2 reactor
NT3	flamanville-2 reactor	NT3	neupotz-1 reactor	NT3	shippingport reactor
NT3	forked river-1 reactor	NT3	neupotz-2 reactor	NT3	sizewell-b reactor
NT3	genkai-1 reactor	NT3	nogent sur seine-1 reactor	NT3	sm-1 reactor
NT3	genkai-2 reactor	NT3	nogent sur seine-2 reactor	NT3	sm-1a reactor
NT3	genkai-3 reactor	NT3	north anna-1 reactor	NT3	south texas project-1 reactor
NT3	genkai-4 reactor	NT3	north anna-2 reactor	NT3	south texas project-2 reactor
NT3	ginna-1 reactor	NT3	north anna-3 reactor	NT3	stade reactor
NT3	goesgen reactor	NT3	north anna-4 reactor	NT3	sterling-1 reactor
NT3	golfech-1 reactor	NT3	north coast-1 reactor	NT3	sterling-2 reactor
NT3	golfech-2 reactor	NT3	obrigheim reactor	NT3	summer-1 reactor
NT3	grafenheinfeld reactor	NT3	oconee-1 reactor	NT3	sundesert-1 reactor
NT3	gravelines-1 reactor	NT3	oconee-2 reactor	NT3	sundesert-2 reactor
NT3	gravelines-2 reactor	NT3	oconee-3 reactor	NT3	surry-1 reactor
NT3	gravelines-3 reactor	NT3	oi-1 reactor	NT3	surry-2 reactor
NT3	gravelines-4 reactor	NT3	oi-2 reactor	NT3	surry-3 reactor
NT3	gravelines-5 reactor	NT3	oi-3 reactor	NT3	surry-4 reactor
NT3	gravelines-6 reactor	NT3	oi-4 reactor	NT3	takahama-1 reactor
NT3	greene county reactor	NT3	oktemberyan-2 reactor	NT3	takahama-2 reactor
NT3	greenwood-2 reactor	NT3	olkiluoto-3 reactor	NT3	takahama-3 reactor
NT3	greenwood-3 reactor	NT3	otto hahn reactor	NT3	takahama-4 reactor
NT3	grohnde reactor	NT3	palisades-1 reactor	NT3	three mile island-1 reactor
NT3	hamm-uentrop reactor	NT3	palo verde-1 reactor	NT3	three mile island-2 reactor
NT3	harris-1 reactor	NT3	palo verde-2 reactor	NT3	tihange-2 reactor
NT3	harris-2 reactor	NT3	palo verde-3 reactor	NT3	tihange-3 reactor
NT3	harris-3 reactor	NT3	palo verde-4 reactor	NT3	tihange reactor
NT3	harris-4 reactor	NT3	palo verde-5 reactor	NT3	tomari-1 reactor
NT3	haven-1 reactor	NT3	paluel-1 reactor	NT3	tomari-2 reactor
NT4	koshkonong-1 reactor	NT3	paluel-2 reactor	NT3	tricastin-1 reactor
NT3	haven-2 reactor	NT3	paluel-3 reactor	NT3	tricastin-4 reactor
NT4	koshkonong-2 reactor	NT3	paluel-4 reactor	NT3	trillo-1 reactor
NT3	ikata-2 reactor	NT3	pat reactor	NT3	trojan reactor
NT3	ikata-3 reactor	NT3	pebble springs-1 reactor	NT3	tsuruga-2 reactor
NT3	ikata reactor	NT3	pebble springs-2 reactor	NT3	turkey point-3 reactor
NT3	indian point-1 reactor	NT3	penly-1 reactor	NT3	turkey point-4 reactor
NT3	indian point-2 reactor	NT3	perkins-1 reactor	NT3	tva-1 reactor
NT3	indian point-3 reactor	NT3	perkins-2 reactor	NT3	tva-2 reactor
NT3	iran-1 reactor	NT3	perkins-3 reactor	NT3	tyrone-1 reactor
NT3	iran-2 reactor	NT3	philippsburg-2 reactor	NT3	tyrone-2 reactor
NT3	isar-2 reactor	NT3	pilgrim-2 reactor	NT3	ulchin-1 reactor



- NT3** ulchin-2 reactor  
**NT3** ulchin-3 reactor  
**NT3** ulchin-4 reactor  
**NT3** unterweser reactor  
**NT3** vahnum-1 reactor  
**NT3** vahnum-2 reactor  
**NT3** vandellos-2 reactor  
**NT3** vogtle-1 reactor  
**NT3** vogtle-2 reactor  
**NT3** vogtle-3 reactor  
**NT3** vogtle-4 reactor  
**NT3** waterford-3 reactor  
**NT3** waterford-4 reactor  
**NT3** watts bar-1 reactor  
**NT3** watts bar-2 reactor  
**NT3** westinghouse standard reactor  
**NT3** wnp-1 reactor  
**NT3** wnp-3 reactor  
**NT3** wnp-4 reactor  
**NT3** wnp-5 reactor  
**NT3** wolf creek-1 reactor  
**NT3** wup-3 reactor  
**NT3** wup-4 reactor  
**NT3** wup-5 reactor  
**NT3** wup-6 reactor  
**NT3** wwr type reactors  
**NT4** armenian-1 reactor  
**NT4** armenian-2 reactor  
**NT4** balakovo-1 reactor  
**NT4** balakovo-2 reactor  
**NT4** balakovo-3 reactor  
**NT4** balakovo-4 reactor  
**NT4** blahutovice-1 reactor  
**NT4** bohunice v-1 reactor  
**NT4** bohunice v-2 reactor  
**NT4** dukovany-1 reactor  
**NT4** dukovany-2 reactor  
**NT4** dukovany-3 reactor  
**NT4** dukovany-4 reactor  
**NT4** greifswald-1 reactor  
**NT4** greifswald-2 reactor  
**NT4** greifswald-3 reactor  
**NT4** greifswald-4 reactor  
**NT4** greifswald-5 reactor  
**NT4** greifswald-6 reactor  
**NT4** juragua-1 reactor  
**NT4** kalinin-1 reactor  
**NT4** kalinin-3 reactor  
**NT4** kecerovce-1 reactor  
**NT4** khmel'nitskij-1 reactor  
**NT4** kola-1 reactor  
**NT4** kola-2 reactor  
**NT4** kola-3 reactor  
**NT4** kola-4 reactor  
**NT4** kozloduy-1 reactor  
**NT4** kozloduy-2 reactor  
**NT4** kozloduy-3 reactor  
**NT4** kozloduy-4 reactor  
**NT4** kozloduy-5 reactor  
**NT4** kozloduy-6 reactor  
**NT4** kudankulam-1 reactor  
**NT4** kudankulam-2 reactor  
**NT4** loviisa-1 reactor  
**NT4** loviisa-2 reactor  
**NT4** mochovce-1 reactor  
**NT4** mochovce-2 reactor  
**NT4** novovoronezh-1 reactor  
**NT4** novovoronezh-2 reactor  
**NT4** novovoronezh-3 reactor  
**NT4** novovoronezh-4 reactor  
**NT4** novovoronezh-5 reactor  
**NT4** paks-1 reactor  
**NT4** paks-2 reactor  
**NT4** paks-3 reactor  
**NT4** paks-4 reactor  
**NT4** rovno-1 reactor  
**NT4** rovno-2 reactor  
**NT4** rovno-3 reactor  
**NT4** rovno-4 reactor  
**NT4** rovno-5 reactor  
**NT4** south ukrainian-1 reactor  
**NT4** south ukrainian-2 reactor  
**NT4** south ukrainian-3 reactor  
**NT4** stendal-1 reactor  
**NT4** tatarian reactor  
**NT4** temelin-1 reactor  
**NT4** temelin-2 reactor  
**NT4** tianwan-1 reactor  
**NT4** zaporozhe-1 reactor  
**NT4** zaporozhe-2 reactor  
**NT4** zaporozhe-3 reactor  
**NT4** zaporozhe-4 reactor  
**NT4** zaporozhe-5 reactor  
**NT4** zaporozhe-6 reactor  
**NT3** wyhl-1 reactor  
**NT3** wyhl-2 reactor  
**NT3** yellow creek-1 reactor  
**NT3** yellow creek-2 reactor  
**NT3** yonggwang-1 reactor  
**NT3** yonggwang-2 reactor  
**NT3** yonggwang-3 reactor  
**NT3** yonggwang-4 reactor  
**NT3** zion-1 reactor  
**NT3** zion-2 reactor  
**NT3** zorita-1 reactor  
**NT2** r-2 reactor  
**NT2** ra-5 reactor  
**NT2** rake-2 reactor  
**NT2** rg-1m reactor  
**NT2** safari-1 reactor  
**NT2** sm-2 reactor  
**NT2** spert-1 reactor  
**NT2** spert-2 reactor  
**NT2** spert-3 reactor  
**NT2** sr-1 reactor  
**NT2** sr-0a reactor  
**NT2** tca reactor  
**NT2** triga type reactors  
**NT3** afri reactor  
**NT3** atrp reactor  
**NT3** colorado triga-mk-3 reactor  
**NT3** cornell triga-mk-2 reactor  
**NT3** dow triga-mk-1 reactor  
**NT3** fir-1 reactor  
**NT3** frf-2 reactor  
**NT3** frn reactor  
**NT3** gulf triga-mk-3 reactor  
**NT3** kartini-ppny reactor  
**NT3** lopra reactor  
**NT3** nscr reactor  
**NT3** ostr reactor  
**NT3** prpr reactor  
**NT3** pstr reactor  
**NT3** rtp reactor  
**NT3** trico reactor  
**NT3** triga-1-arizona reactor  
**NT3** triga-1-california reactor  
**NT3** triga-1-hanford reactor  
**NT3** triga-1-hanover reactor  
**NT3** triga-1-heidelberg reactor  
**NT3** triga-1-michigan reactor  
**NT3** triga-2-bandung reactor  
**NT3** triga-2-bangladesh reactor  
**NT3** triga-2-dalat reactor  
**NT3** triga-2-illinois reactor  
**NT3** triga-2-kansas reactor  
**NT3** triga-2-ljubljana reactor  
**NT3** triga-2-mainz reactor  
**NT3** triga-2-musashi reactor  
**NT3** triga-2-pavia reactor  
**NT3** triga-2-pitesti reactor  
**NT3** triga-2 reactor  
**NT3** triga-2-rikkyo reactor  
**NT3** triga-2-rome reactor  
**NT3** triga-2-seoul reactor  
**NT3** triga-2-vienna reactor  
**NT3** triga-3-la jolla reactor  
**NT3** triga-3-munich reactor  
**NT3** triga-3-salazar reactor  
**NT3** triga-3-seoul reactor  
**NT3** triga-brazil reactor  
**NT3** triga-texas reactor  
**NT3** triga-veterans reactor  
**NT3** ucbr reactor  
**NT3** uwnr reactor  
**NT3** wsur reactor  
**NT2** tsr-2 reactor  
**NT2** twmr reactor  
**NT2** venus reactor  
**NT2** voronezh ast-500 reactor  
**NT2** wntr reactor  
**NT2** wtr reactor  
**NT2** wwr type reactors  
**NT3** budapest training reactor  
**NT3** irt-1 libya reactor  
**NT3** irt-baghdad reactor  
**NT3** lvr-15 reactor  
**NT3** wwr-2 reactor  
**NT3** wwr-k-almaty reactor  
**NT3** wwr-m-kiev reactor  
**NT3** wwr-m-leningrad reactor  
**NT3** wwr-s-bucharest reactor  
**NT3** wwr-s-budapest reactor  
**NT3** wwr-s-cairo reactor  
**NT3** wwr-s-moscow reactor  
**NT3** wwr-s-prague reactor  
**NT3** wwr-s-tashkent reactor  
**NT3** wwr-sm rossendorf reactor  
**NT3** wwr-z reactor  
**NT2** zlfr reactor  
*RT* criticality  
*RT* excursions  
*RT* fission  
*RT* fission products  
*RT* fuel elements  
*RT* hybrid reactors  
*RT* natural nuclear reactors  
*RT* nuclear engineering  
*RT* nuclear fuels  
*RT* reactor safety  
*RT* reactor technology  
*RT* spent fuels
- READOUT SYSTEMS**  
*RT* data acquisition systems  
*RT* recording systems
- REAGENTS**  
 1996-10-23  
**NT1** 1-nitroso-2-naphthol  
**NT1** acetylacetone  
**NT1** alizarin  
**NT1** arsenazo  
**NT1** bromosulfophthalein  
**NT1** cupferron  
**NT1** dimethylglyoxime  
**NT1** dithiols  
**NT2** dimercaprol  
**NT2** unithiol  
**NT1** dithizone  
**NT1** evans blue  
**NT1** ferroin  
**NT1** ferron  
**NT1** morin  
**NT1** phenanthroline-ortho  
**NT1** pyridylazoresorcinol  
**NT1** rhodamines  
**NT1** rhodizonic acid  
**NT1** rose bengal  
**NT1** sensitizers  
**NT1** starch  
**NT1** thionalide  
**NT1** thorin  
**NT1** tiron  
*RT* reducing agents

**REAKTORSICHERHEITSKOMMISSION**

INIS: 1978-01-13; ETDE: 1978-03-03

\*BT1 german fr organizations

**REAL TIME SYSTEMS**

NTI mwd systems  
 RT analog systems  
 RT computer architecture  
 RT computer networks  
 RT computers  
 RT control systems  
 RT on-line control systems  
 RT on-line systems  
 RT process computers  
 RT transfer functions

**REARING**

NTI mass rearing  
 RT animal growth  
 RT diet  
 RT domestic animals  
 RT insects  
 RT nutrition

**reattore bologna-1**

USE rb-1 reactor

**reattore bologna-2**

USE rb-2 reactor

**reattore bologna-3**

USE rb-3 reactor

**reattore casaccia-1**

USE triga-2-rome reactor

**reattore casaccia-4**

USE ritmo reactor

**reattore organico sperimentale potenza zero**

2000-04-12

USE rospo reactor

**RECEIPTS**

INIS: 2000-04-12; ETDE: 1980-08-12

RT fuel supplies  
 RT trade

**receivers (solar)**

INIS: 1992-05-29; ETDE: 1979-09-26

USE solar receivers

**RECEPTORS**

INIS: 1978-04-21; ETDE: 1978-07-06

\*BT1 membrane proteins  
 RT biochemistry  
 RT bioelectricity  
 RT calmodulin  
 RT central nervous system  
 RT endocrine glands  
 RT enzymes  
 RT hippocampus  
 RT hormones  
 RT immunity  
 RT nerve cells  
 RT radioreceptor assay  
 RT sense organs  
 RT tamoxifen

**RECESSIVE MUTATIONS**

BT1 mutations

**recharge**

INIS: 2000-04-12; ETDE: 1995-05-09

SEE groundwater recharge

**reciprocal translocations**

USE chromosomal aberrations

**RECIPROCAL V LAW**

INIS: 1975-09-26; ETDE: 1975-10-28

UF *1/v law*  
 RT cross sections

**reclamation**

INIS: 2000-04-12; ETDE: 1979-12-10

SEE land reclamation

**recoil chemistry**

USE hot atom chemistry

**recoil distance method**

INIS: 1984-01-18; ETDE: 1984-02-10

*Method for the determination of lifetimes of nuclear levels.*

USE charge plunger method

**RECOILLESS FRACTION**

2000-04-12

RT moessbauer effect

**RECOILS**

1995-05-09

RT chemical state  
 RT delta rays  
 RT fission  
 RT hot atom chemistry  
 RT knock-on  
 RT knock-out reactions  
 RT moessbauer effect  
 RT proton detection  
 RT proton recoil detectors  
 RT radiation effects

**RECOMBINANT DNA**

INIS: 1984-07-20; ETDE: 1981-04-17

\*BT1 dna  
 RT biotechnology  
 RT crossing-over  
 RT dna hybridization  
 RT gene amplification  
 RT gene mutations  
 RT gene recombination  
 RT oligonucleotides

**RECOMBINATION**

*Of electrons, holes, ions, radicals or atoms.*

UF *neutralization (physical)*  
 RT electron capture  
 RT radiation chemistry

**recombination (genetic)**

USE gene recombination

**RECOMBINERS**

RT reactor cooling systems  
 RT water

**RECOMMENDATIONS**

UF *guidelines*  
 UF *radiation protection guides*  
 RT agreements  
 RT cen  
 RT compliance  
 RT iaea  
 RT icrp  
 RT icru  
 RT implementation  
 RT inspection  
 RT international electrotechnical commission  
 RT iso  
 RT legal aspects  
 RT licensing  
 RT manuals  
 RT radiation protection  
 RT reference man  
 RT regulations  
 RT regulatory guides  
 RT research programs  
 RT safety standards

RT solas convention

**recorded information**

2000-03-28

SEE data

**RECORDING SYSTEMS**

RT counting techniques  
 RT data acquisition  
 RT data acquisition systems  
 RT data processing  
 RT electrocardiograms  
 RT electronic equipment  
 RT measuring instruments  
 RT readout systems

**RECORDS MANAGEMENT**

INIS: 1992-04-02; ETDE: 1983-11-09

BT1 management  
 RT information

**records retrieval**

USE information retrieval

**recovery**

2000-04-12

(Prior to June 1992 this was a valid ETDE descriptor.)

SEE biological recovery  
 SEE energy recovery  
 SEE enhanced recovery  
 SEE materials recovery  
 SEE primary recovery  
 SEE seed recovery  
 SEE tritium recovery

**recovery (biological)**

USE biological recovery

**recovery (tritium)**

ETDE: 1975-09-11

USE tritium recovery

**RECREATIONAL AREAS**

INIS: 1985-09-09; ETDE: 1977-06-21

SF *parks*  
 RT aesthetics  
 RT environment  
 RT land use  
 RT public lands  
 RT recreational vehicles  
 RT sport facilities  
 RT tourism

**RECREATIONAL VEHICLES**

INIS: 2000-04-12; ETDE: 1979-07-18

BT1 vehicles  
 RT motorboats  
 RT occupants  
 RT recreational areas

**RECRYSTALLIZATION**

RT annealing  
 RT crystallization  
 RT grain growth  
 RT heat treatments

**RECTAL ADMINISTRATION**

INIS: 1975-10-29; ETDE: 1976-08-24

BT1 intake  
 RT intestinal absorption  
 RT uptake

**RECTANGULAR CONFIGURATION**

BT1 configuration  
 NT1 square configuration  
 RT plates

**RECTENNAS**

2000-04-12

*A device that converts microwave energy into direct current.*

\*BT1 antennas

RT microwave power transmission

**RECTIFIER TUBES**

1996-06-26

(Prior to June 1996 CAPACITRONS was a valid ETDE descriptor.)

UF capacitrons  
BT1 electron tubes  
\*BT1 rectifiers  
NT1 ignitrons  
RT thyratrons

**RECTIFIERS**

UF ac to dc converters  
\*BT1 electrical equipment  
NT1 rectifier tubes  
NT2 ignitrons  
NT1 semiconductor rectifiers  
RT dc to dc converters  
RT thyristors

**RECTISOL PROCESS**

2000-04-12

Process using methanol as solvent for removal of carbon dioxide, hydrogen sulfide, ammonia, HCN, gum formers, higher hydrocarbons, and other impurities from crude gas produced by coal gasification for syngas or sng manufacture; removal of hydrogen sulfide, COS and carbon dioxide from reformed gas, in particular from gas produced by partial oxidation of hydrocarbons, to yield synthesis gas; and integration of gas purification with low-temperature plants (liquefaction and fractionation) for removal of moderate contents of acidic components.

\*BT1 desulfurization  
RT sasol-ii process

**RECTUM**

\*BT1 large intestine  
RT feces  
RT pelvis  
RT proctitis

**recurrence relations**

INIS: 1984-04-04; ETDE: 2002-05-03  
USE recursion relations

**RECURSION RELATIONS**

UF recurrence relations  
RT differential equations  
RT functions

**recycle (nuclear fuel)**

USE fuel cycle

**RECYCLING**

INIS: 1981-05-11; ETDE: 1975-11-11

RT energy conservation  
RT materials handling  
RT materials recovery  
RT resource conservation  
RT scrap  
RT thermonuclear fuels  
RT waste oil refineries  
RT waste oils  
RT waste processing  
RT wastes

**recycling (nuclear fuel)**

2000-04-12

USE reprocessing

**RED DWARF STARS**

\*BT1 dwarf stars

**RED GIANT STARS**

\*BT1 giant stars  
RT helium burning

**red level-3 reactor**

ETDE: 2002-05-03  
USE crystal river-3 reactor

**red level-4 reactor**

ETDE: 2002-05-03  
USE crystal river-4 reactor

**red peppers**

INIS: 1984-04-04; ETDE: 2001-01-23  
USE peppers

**RED SEA**

\*BT1 seas  
NT1 gulf of sues  
RT egyptian arab republic  
RT sudan

**RED SHIFT**

INIS: 1975-10-31; ETDE: 1975-12-17  
RT astrophysics  
RT cosmology  
RT doppler effect  
RT einstein effect  
RT hubble effect

**red wing prairie island-1 reactor**

INIS: 1993-11-09; ETDE: 2002-05-03  
USE prairie island-1 reactor

**red wing prairie island-2 reactor**

INIS: 1993-11-09; ETDE: 2002-05-03  
USE prairie island-2 reactor

**redmud event**

INIS: 2000-04-12; ETDE: 1979-12-10  
A test made during OPERATION FULCRUM. (Prior to September 1994, this was a valid ETDE descriptor.)  
USE nuclear explosions  
USE underground explosions

**REDOX FLOW BATTERIES**

2007-05-16  
\*BT1 electric batteries  
RT redox fuel cells

**REDOX FUEL CELLS**

INIS: 1992-05-20; ETDE: 1975-08-19  
\*BT1 regenerative fuel cells  
RT off-peak energy storage  
RT redox flow batteries

**REDOX POTENTIAL**

UF eh (redox potential)  
RT oxidation  
RT potentiometry  
RT reduction  
RT valence

**REDOX PROCESS**

\*BT1 reprocessing  
RT ascorbic acid  
RT coenzymes  
RT cytochromes  
RT oxidoreductases  
RT solvent extraction

**REDOX REACTIONS**

1992-01-21  
BT1 chemical reactions  
RT hydroaromatics  
RT oxidation  
RT reduction

**reduced nicotinamide-adenine dinucleotide**

INIS: 2000-04-12; ETDE: 1980-06-22  
USE nadh2

**REDUCING AGENTS**

INIS: 1980-11-07; ETDE: 1976-09-14  
RT reagents  
RT reduction

**reductases**

USE oxidoreductases

**REDUCTION**

For chemical reactions only; for size or volume change, see COMPRESSION, SHRINKAGE, or CONTRACTION.

UF deoxidation  
UF disproportionation  
BT1 chemical reactions  
NT1 bomb reduction  
NT1 selective catalytic reduction  
NT1 thermite process  
RT jones reductor  
RT kroll process  
RT methanation  
RT oxidation  
RT oxidoreductases  
RT pyrometallurgy  
RT redox potential  
RT redox reactions  
RT reducing agents

**REDUCTIVE EXTRACTION**

1999-07-14  
\*BT1 extraction  
RT molten salt reactors

**reductive perturbation method**

USE perturbation theory

**REDUNDANCY**

2004-02-18  
The existence of more than one means in a system to accomplish a certain purpose, in order to increase reliability; e.g. parallel devices in an engineered system, multiple organs in a biological system, several copies of data in an information system. Coordinate with specific descriptor for the system/organ/data that is redundant.  
RT biological evolution  
RT communications  
RT computerized control systems  
RT data  
RT failure mode analysis  
RT information theory  
RT reliability

**REDWING PROJECT**

UF project redwing  
RT atmospheric explosions  
RT bikini  
RT nuclear explosions  
RT nuclear weapons  
RT surface explosions

**REEDS**

INIS: 2000-04-06; ETDE: 1986-01-14  
\*BT1 gramineae  
NT1 sugar cane

**REEFS**

INIS: 1992-06-04; ETDE: 1980-04-14  
Chains of rocks or sand near the surface of water.  
BT1 geologic structures  
RT rocks  
RT sand  
RT seas

**REENTRY**

UF re-entry  
RT ablation  
RT aerodynamics  
RT missiles

RT parachutes  
 RT plasma sheath  
 RT rockets  
 RT space flight  
 RT space vehicles

**REENTRY VEHICLES**

INIS: 1993-03-23; ETDE: 1975-12-16

\*BT1 space vehicles  
 RT flight testing  
 RT missiles

**REFERENCE MAN**

UF *standard man*  
 RT adults  
 RT icrp  
 RT man  
 RT radiation protection  
 RT recommendations

**reference materials (bio mark)**

INIS: 1984-10-23; ETDE: 1984-11-08

USE biological markers

**reference materials (standard)**

INIS: 1984-10-23; ETDE: 1984-11-08

USE calibration standards

**REFERENCE THETA PINCH****REACTOR**

\*BT1 pulsed d-t reactors  
 RT theta pinch  
 RT toroidal theta pinch devices

**refinement (grain)**

USE grain refinement

**refiner-marketers**

INIS: 1992-04-03; ETDE: 1979-10-03

USE marketers

**REFINERY GASES**

INIS: 2000-04-12; ETDE: 1976-01-23

*Boiling point range -160 to 0 degrees C.*

UF *still gas*  
 \*BT1 gases  
 \*BT1 petroleum fractions  
 BT1 petroleum products  
 RT fuel gas  
 RT natural gas  
 RT petroleum refineries

**REFINING**

2000-02-01

UF *aurabon process*  
 BT1 processing  
 NT1 electrorefining  
 NT1 gulf hds process  
 NT1 zone refining  
 RT catalytic reforming  
 RT chloride volatility process  
 RT dewaxing  
 RT enrichment  
 RT extractive metallurgy  
 RT fluoride volatility process  
 RT ore processing  
 RT petroleum products  
 RT purification  
 RT separation processes  
 RT sublimation

**reflectance (spectral)**

INIS: 1984-04-04; ETDE: 2002-05-03

USE spectral reflectance

**REFLECTION**

NT1 bragg reflection  
 NT1 optical reflection  
 RT albedo  
 RT backscattering  
 RT electrostatic mirrors  
 RT greenhouse effect

RT incidence angle  
 RT mirrors  
 RT parabolic reflectors

**REFLECTIVE COATINGS**

INIS: 1985-01-17; ETDE: 1979-02-23

BT1 coatings  
 RT antireflection coatings  
 RT heat mirrors  
 RT optical properties  
 RT solar control films

**REFLECTIVITY**

1992-02-23

\*BT1 optical properties  
 BT1 surface properties  
 RT scanning light microscopy  
 RT spectral reflectance  
 RT visible radiation

**REFLECTOR SAVINGS**

*A measure of the decrease in the critical size of a reactor as a consequence of the reflector.*

RT configuration control  
 RT critical mass  
 RT critical size  
 RT criticality  
 RT neutron reflectors

**reflectors (neutron)**

USE neutron reflectors

**reflex switches**

INIS: 1986-01-21; ETDE: 2002-05-03

*Switches employing a current-conducting plasma for operation.*

USE plasma switches

**REFLEXES**

NT1 conditioned reflexes  
 RT behavior  
 RT nerves  
 RT nervous system  
 RT sense organs  
 RT spinal cord

**REFORMER PROCESSES**

INIS: 2000-04-12; ETDE: 1975-08-19

BT1 chemical reactions  
 NT1 autothermal reformer processes  
 NT1 catalytic reforming  
 NT1 steam reformer processes  
 RT hydrogen production

**refractaloy**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE chromium alloys  
 USE iron alloys  
 USE molybdenum alloys  
 USE nickel alloys

**REFRACTION**

NT1 birefringence  
 RT fresnel coefficient  
 RT incidence angle  
 RT optical dispersion  
 RT optical properties  
 RT refractive index  
 RT schlieren method  
 RT wave propagation

**REFRACTIVE INDEX**

INIS: 1976-05-05; ETDE: 1991-08-14

UF *index of refraction*  
 UF *refractivity*  
 \*BT1 optical properties  
 RT fresnel coefficient  
 RT optical dispersion  
 RT refraction  
 RT wave propagation

**refractivity**

INIS: 1976-03-25; ETDE: 1975-09-11

(Prior to January 1983 this concept was indexed by REFRACTION.)

USE refractive index

**REFRACTORIES**

RT ablation  
 RT asbestos  
 RT ceramics  
 RT cermets  
 RT graphite  
 RT heat resistant materials  
 RT heat resisting alloys  
 RT refractory metals

**refractory alloys**

INIS: 2003-01-06; ETDE: 2002-05-03

USE heat resisting alloys

**REFRACTORY METAL COMPOUNDS**

INIS: 2000-04-12; ETDE: 1984-11-09

NT1 hafnium compounds

NT2 hafnates  
 NT2 hafnium arsenides  
 NT2 hafnium borides  
 NT2 hafnium bromides  
 NT2 hafnium carbides  
 NT2 hafnium chlorides  
 NT2 hafnium fluorides  
 NT2 hafnium hydrides  
 NT2 hafnium hydroxides  
 NT2 hafnium iodides  
 NT2 hafnium nitrates  
 NT2 hafnium nitrides  
 NT2 hafnium oxides  
 NT2 hafnium perchlorates  
 NT2 hafnium phosphates  
 NT2 hafnium phosphides  
 NT2 hafnium selenides  
 NT2 hafnium silicates  
 NT2 hafnium silicides  
 NT2 hafnium sulfates  
 NT2 hafnium sulfides  
 NT2 hafnium tellurides  
 NT2 hafnium tungstates

NT1 iridium compounds

NT2 iridium borides  
 NT2 iridium carbides  
 NT2 iridium chlorides  
 NT2 iridium fluorides  
 NT2 iridium hydrides  
 NT2 iridium oxides  
 NT2 iridium silicides  
 NT2 iridium sulfates  
 NT2 iridium tellurides

NT1 molybdenum compounds

NT2 molybdates  
 NT2 molybdenum arsenides  
 NT2 molybdenum borides  
 NT2 molybdenum bromides  
 NT2 molybdenum carbides  
 NT2 molybdenum carbonates  
 NT2 molybdenum chlorides  
 NT2 molybdenum fluorides  
 NT2 molybdenum hydrides  
 NT2 molybdenum hydroxides  
 NT2 molybdenum iodides  
 NT2 molybdenum nitrates  
 NT2 molybdenum nitrides  
 NT2 molybdenum oxides  
 NT3 molybdenum blue  
 NT2 molybdenum phosphates  
 NT2 molybdenum phosphides  
 NT2 molybdenum selenides  
 NT2 molybdenum silicates  
 NT2 molybdenum silicides  
 NT2 molybdenum sulfates

NT2 molybdenum sulfides  
 NT2 molybdenum tellurides  
 NT2 molybdic acid  
 NT2 molybdophosphates  
 NT2 molybdophosphoric acid  
 NT1 niobium compounds  
 NT2 niobates  
 NT2 niobium arsenides  
 NT2 niobium borides  
 NT2 niobium bromides  
 NT2 niobium carbides  
 NT2 niobium chlorides  
 NT2 niobium fluorides  
 NT2 niobium hydrides  
 NT2 niobium hydroxides  
 NT2 niobium iodides  
 NT2 niobium nitrates  
 NT2 niobium nitrides  
 NT2 niobium oxides  
 NT2 niobium phosphates  
 NT2 niobium phosphides  
 NT2 niobium selenides  
 NT2 niobium silicates  
 NT2 niobium silicides  
 NT2 niobium sulfates  
 NT2 niobium sulfides  
 NT2 niobium tellurides  
 NT1 osmium compounds  
 NT2 osmium borides  
 NT2 osmium carbides  
 NT2 osmium chlorides  
 NT2 osmium fluorides  
 NT2 osmium oxides  
 NT2 osmium phosphides  
 NT2 osmium sulfates  
 NT2 osmium sulfides  
 NT1 rhenium compounds  
 NT2 perhenates  
 NT2 rhenates  
 NT2 rhenium borides  
 NT2 rhenium carbides  
 NT2 rhenium carbonates  
 NT2 rhenium halides  
 NT3 rhenium bromides  
 NT3 rhenium chlorides  
 NT3 rhenium fluorides  
 NT3 rhenium iodides  
 NT2 rhenium hydrides  
 NT2 rhenium hydroxides  
 NT2 rhenium nitrides  
 NT2 rhenium oxides  
 NT2 rhenium selenides  
 NT2 rhenium silicides  
 NT2 rhenium sulfates  
 NT2 rhenium sulfides  
 NT2 rhenium tellurides  
 NT1 rhodium compounds  
 NT2 rhodium borides  
 NT2 rhodium bromides  
 NT2 rhodium carbides  
 NT2 rhodium chlorides  
 NT2 rhodium fluorides  
 NT2 rhodium hydrides  
 NT2 rhodium hydroxides  
 NT2 rhodium nitrides  
 NT2 rhodium oxides  
 NT2 rhodium phosphides  
 NT2 rhodium selenides  
 NT2 rhodium silicides  
 NT2 rhodium sulfides  
 NT2 rhodium tellurides  
 NT1 ruthenium compounds  
 NT2 ruthenium arsenides  
 NT2 ruthenium borides  
 NT2 ruthenium bromides  
 NT2 ruthenium carbides  
 NT2 ruthenium chlorides  
 NT2 ruthenium fluorides  
 NT2 ruthenium hydrides

NT2 ruthenium hydroxides  
 NT2 ruthenium nitrates  
 NT2 ruthenium nitrides  
 NT2 ruthenium nitrosyls  
 NT2 ruthenium oxides  
 NT2 ruthenium phosphides  
 NT2 ruthenium selenides  
 NT2 ruthenium silicides  
 NT2 ruthenium sulfates  
 NT2 ruthenium sulfides  
 NT2 ruthenium tellurides  
 NT1 tantalum compounds  
 NT2 tantalates  
 NT2 tantalum borides  
 NT2 tantalum bromides  
 NT2 tantalum carbides  
 NT2 tantalum chlorides  
 NT2 tantalum fluorides  
 NT2 tantalum hydrides  
 NT2 tantalum hydroxides  
 NT2 tantalum iodides  
 NT2 tantalum nitrides  
 NT2 tantalum oxides  
 NT2 tantalum phosphates  
 NT2 tantalum phosphides  
 NT2 tantalum selenides  
 NT2 tantalum silicates  
 NT2 tantalum silicides  
 NT2 tantalum sulfates  
 NT2 tantalum sulfides  
 NT2 tantalum tellurides  
 NT2 tantalum tungstates  
 NT1 technetium compounds  
 NT2 pertechnetates  
 NT2 technetates  
 NT2 technetium bromides  
 NT2 technetium carbides  
 NT2 technetium chlorides  
 NT2 technetium fluorides  
 NT2 technetium hydrides  
 NT2 technetium iodides  
 NT2 technetium oxides  
 NT2 technetium phosphates  
 NT2 technetium selenides  
 NT2 technetium sulfides  
 NT2 technetium tellurides  
 NT1 tungsten compounds  
 NT2 tungstates  
 NT3 aluminium tungstates  
 NT3 ammonium tungstates  
 NT3 barium tungstates  
 NT3 bismuth tungstates  
 NT3 cadmium tungstates  
 NT3 calcium tungstates  
 NT3 cerium tungstates  
 NT3 cesium tungstates  
 NT3 cobalt tungstates  
 NT3 copper tungstates  
 NT3 dysprosium tungstates  
 NT3 erbium tungstates  
 NT3 gadolinium tungstates  
 NT3 hafnium tungstates  
 NT3 indium tungstates  
 NT3 iron tungstates  
 NT3 lanthanum tungstates  
 NT3 lead tungstates  
 NT3 lithium tungstates  
 NT3 lutetium tungstates  
 NT3 manganese tungstates  
 NT3 neodymium tungstates  
 NT3 nickel tungstates  
 NT3 potassium tungstates  
 NT3 praseodymium tungstates  
 NT3 rubidium tungstates  
 NT3 samarium tungstates  
 NT3 scandium tungstates  
 NT3 silver tungstates  
 NT3 sodium tungstates  
 NT3 strontium tungstates

NT3 tantalum tungstates  
 NT3 thallium tungstates  
 NT3 thorium tungstates  
 NT3 tin tungstates  
 NT3 titanium tungstates  
 NT3 uranium tungstates  
 NT3 uranyl tungstates  
 NT3 vanadium tungstates  
 NT3 ytterbium tungstates  
 NT3 yttrium tungstates  
 NT3 zinc tungstates  
 NT3 zirconium tungstates  
 NT2 tungsten borides  
 NT2 tungsten bromides  
 NT2 tungsten carbides  
 NT2 tungsten chlorides  
 NT2 tungsten fluorides  
 NT2 tungsten hydrides  
 NT2 tungsten hydroxides  
 NT2 tungsten iodides  
 NT2 tungsten nitrides  
 NT2 tungsten oxides  
 NT3 sodium tungsten bronze  
 NT2 tungsten phosphides  
 NT2 tungsten selenides  
 NT2 tungsten silicides  
 NT2 tungsten sulfides  
 NT2 tungsten tellurides  
 NT2 tungstophosphates  
 NT2 tungstophosphoric acid

**REFRACTORY METALS***INIS: 2000-03-27; ETDE: 1977-06-02*

\*BT1 metals  
 NT1 hafnium  
 NT2 hafnium-alpha  
 NT2 hafnium-beta  
 NT1 iridium  
 NT1 molybdenum  
 NT1 niobium  
 NT2 niobium-alpha  
 NT2 niobium-beta  
 NT1 osmium  
 NT1 rhenium  
 NT1 rhodium  
 NT1 ruthenium  
 NT1 tantalum  
 NT1 technetium  
 NT1 tungsten  
 NT2 tungsten-alpha  
 RT heat resisting alloys  
 RT refractories

**REFRIGERANTS***INIS: 1978-04-21; ETDE: 1977-11-09*

\*BT1 working fluids  
 RT ammonia  
 RT chlorofluorocarbons  
 RT coolants  
 RT cryogenic fluids  
 RT freons  
 RT halogenated aliphatic hydrocarbons  
 RT hydrocarbons  
 RT organic coolants  
 RT organic halogen compounds  
 RT refrigeration

**REFRIGERATING MACHINERY***INIS: 1992-03-10; ETDE: 1975-11-11*

*Machinery for cooling a volume to a temperature below that of the surrounding environment.*

\*BT1 machinery  
 RT absorption refrigeration cycle  
 RT air conditioners  
 RT air conditioning  
 RT coefficient of performance  
 RT cooling systems  
 RT refrigeration  
 RT refrigerators

RT vapor compression refrigeration cycle

## REFRIGERATION

(From May 1981 to February 1997 COLD RECOVERY was a valid ETDE descriptor.)

SF cold recovery  
 BT1 cooling  
 NT1 geothermal refrigeration  
 NT1 helium dilution refrigeration  
 NT1 solar refrigeration  
 RT absorption refrigeration cycle  
 RT heat pumps  
 RT magnetic refrigerators  
 RT refrigerants  
 RT refrigerating machinery  
 RT refrigerators  
 RT vapor compression refrigeration cycle

## REFRIGERATORS

INIS: 1980-04-02; ETDE: 1975-10-01

Insulated containments cooled by refrigerating machinery.

NT1 helium dilution refrigerators  
 NT1 magnetic refrigerators  
 NT1 solar refrigerators  
 NT1 thermoelectric refrigerators  
 RT absorption refrigeration cycle  
 RT coefficient of performance  
 RT cooling systems  
 RT cryostats  
 RT electric appliances  
 RT freezers  
 RT gas appliances  
 RT helium dilution refrigeration  
 RT refrigerating machinery  
 RT refrigeration  
 RT vapor compression refrigeration cycle  
 RT water coolers

## refueling water systems

2000-04-12

USE auxiliary water systems

## refuse

USE solid wastes

## REFUSE DERIVED FUELS

INIS: 1992-04-09; ETDE: 1976-11-01

Fuels prepared from solid municipal or industrial wastes by removing all non-combustible materials, and put into burnable form.

UF rdf  
 BT1 fuels  
 RT industrial wastes  
 RT municipal wastes  
 RT refuse-fueled power plants  
 RT resource recovery facilities  
 RT solid wastes  
 RT synthetic fuels

## REFUSE-FUELED BOILERS

INIS: 1992-05-18; ETDE: 1979-05-09

UF waste-fueled boilers  
 BT1 boilers  
 RT refuse-fueled power plants

## REFUSE-FUELED POWER PLANTS

INIS: 1992-04-09; ETDE: 1979-03-27

UF waste-fueled power plants  
 \*BT1 thermal power plants  
 RT cogeneration  
 RT dual-purpose power plants  
 RT power generation  
 RT refuse derived fuels  
 RT refuse-fueled boilers  
 RT steam generation

## regenerating liver

USE biological regeneration

## REGENERATION

1981-11-26

SF reactivation  
 RT heat storage  
 RT particle production  
 RT solar heat engines  
 RT stirling engines  
 RT waste processing

## regeneration (biological)

USE biological regeneration

## REGENERATIVE BRAKING

INIS: 2000-04-12; ETDE: 1976-03-11

RT brakes  
 RT electric-powered vehicles

## REGENERATIVE FUEL CELLS

1992-05-20

\*BT1 fuel cells  
 NT1 redox fuel cells  
 RT proton exchange membrane fuel cells

## REGENERATORS

1986-04-04

NT1 solar regenerators  
 RT energy storage systems  
 RT heat exchangers  
 RT heat storage  
 RT solar heat engines  
 RT stirling engines

## REGGE CALCULUS

RT mathematics  
 RT regge poles  
 RT relativity theory

## REGGE CUTS

RT regge poles

## REGGE POLES

RT abfst equation  
 RT conspiracy relations  
 RT exchange degeneracy  
 RT linear absorption models  
 RT lorentz poles  
 RT pomeranchuk particles  
 RT pomeranchuk poles  
 RT quantum field theory  
 RT regge calculus  
 RT regge cuts  
 RT regge trajectories  
 RT scattering amplitudes  
 RT van hove model

## REGGE TRAJECTORIES

RT regge poles

## region i

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

## region ii

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

## region iii

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

## region iv

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

## region ix

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

## region v

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

## region vi

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

## region vii

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

## region viii

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

## region x

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

## REGIONAL ANALYSIS

Evaluation of the characteristics of a region and their economic, ecological, or social implications.

RT ecology  
 RT economic analysis  
 RT economics  
 RT environment  
 RT fallout  
 RT geology  
 RT geomorphology  
 RT human populations  
 RT input-output analysis  
 RT land use  
 RT regional cooperation  
 RT sociology  
 RT water use

## REGIONAL COOPERATION

INIS: 1996-05-06; ETDE: 1978-04-06

BT1 cooperation  
 RT decision making  
 RT energy policy  
 RT government policies  
 RT land use  
 RT local government  
 RT management  
 RT planning  
 RT regional analysis  
 RT state government

## regional electric reliability councils

INIS: 2000-04-12; ETDE: 1979-09-27

USE electric reliability councils

## regolith

INIS: 2000-03-28; ETDE: 1976-02-20

(Prior to December 1990, this was a valid descriptor.)

SEE overburden

## REGRESSION ANALYSIS

INIS: 1981-07-08; ETDE: 1979-05-09

\*BT1 statistics  
 RT correlations  
 RT economic analysis  
 RT forecasting

## REGULATING RODS

UF fine control rods  
 \*BT1 control elements  
 RT neutron absorbers

## REGULATIONS

(From August 1979 till March 1997 LEGAL INCENTIVES was a valid ETDE descriptor.)

SF legal incentives  
 BT1 laws  
 NT1 building codes  
 NT1 contamination regulations  
 NT2 maximum acceptable contamination  
 NT1 international regulations  
 NT2 oecd mcmsdrw  
 NT1 licensing regulations  
 NT1 packaging rules

**NT1** pollution regulations  
**NT1** pricing regulations  
**NT1** safeguard regulations  
**NT1** transport regulations  
*RT* administrative procedures  
*RT* afudc  
*RT* agreements  
*RT* amendments  
*RT* compliance  
*RT* consumer protection  
*RT* deregulation  
*RT* enforcement  
*RT* executive orders  
*RT* government policies  
*RT* horizontal divestiture  
*RT* implementation  
*RT* iso  
*RT* land leasing  
*RT* legal aspects  
*RT* legislation  
*RT* legislative text  
*RT* licensing  
*RT* local government  
*RT* national government  
*RT* public policy  
*RT* radiation protection  
*RT* recommendations  
*RT* regulatory guides  
*RT* reporting requirements  
*RT* resource recovery acts  
*RT* safety standards  
*RT* solas convention  
*RT* state government  
*RT* us ferc  
*RT* us public utility regulatory policies act  
*RT* vertical divestiture  
*RT* violations

### regulators (voltage)

USE voltage regulators

### REGULATORY GUIDES

*Should be used to index all pieces of literature which are regulatory guides.*

**BT1** document types  
*RT* legal aspects  
*RT* recommendations  
*RT* regulations  
*RT* us aec

### REICH-MOORE FORMULA

*RT* nuclear reactions  
*RT* resonance

### REID POTENTIAL

**\*BT1** nucleon-nucleon potential  
*RT* nucleon-nucleon interactions

### reimbursement

*INIS: 2000-04-12; ETDE: 1983-03-23*  
 USE cost recovery

### reindeer

USE deer

### REINFORCED CONCRETE

**\*BT1** composite materials  
**\*BT1** concretes  
**\*BT1** reinforced materials  
*RT* concrete stringers

### REINFORCED MATERIALS

*UF* materials (reinforced)  
**BT1** materials  
**NT1** reinforced concrete  
**NT1** reinforced plastics  
*RT* building materials  
*RT* composite materials

### REINFORCED PLASTICS

**\*BT1** plastics

**\*BT1** reinforced materials

### REINJECTION

*INIS: 2000-04-12; ETDE: 1977-03-08*  
*RT* injection wells  
*RT* liquid wastes  
*RT* underground disposal  
*RT* waste disposal  
*RT* waste water

### reinluft process

2000-04-12  
*Reduction of emission of oxides of sulfur from coal by adsorption of sulfur dioxide on activated char at 300 degrees F, followed by cooling of flue gas to 220 degrees F where sulfur dioxide is oxidized to sulfur trioxide which is then adsorbed on char; sulfur trioxide combines with adsorbed water forming sulfuric acid.*  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

### relative biological effectiveness

USE rbe

### RELATIVISTIC BEAM INJECTION

**BT1** beam injection

### relativistic heavy ion collider (bnl)

*INIS: 1993-11-09; ETDE: 2002-05-03*  
 USE brookhaven rhic

### RELATIVISTIC PLASMA

**BT1** plasma

### RELATIVISTIC RANGE

**BT1** energy range  
*RT* relativity theory

### RELATIVITY THEORY

**NT1** general relativity theory  
**NT1** special relativity theory  
*RT* light cone  
*RT* metrics  
*RT* minkowski space  
*RT* regge calculus  
*RT* relativistic range  
*RT* space-time

### RELAXATION

**NT1** muon spin relaxation  
**NT1** spin-lattice relaxation  
**NT1** spin-spin relaxation  
**NT1** stress relaxation  
*RT* de-excitation  
*RT* relaxation losses  
*RT* relaxation time

### relaxation (stress)

USE stress relaxation

### RELAXATION LOSSES

**\*BT1** energy losses  
*RT* dielectric properties  
*RT* dipoles  
*RT* relaxation

### RELAXATION TIME

*INIS: 1981-08-18; ETDE: 1980-03-29*  
*RT* relaxation  
*RT* time dependence

### RELAYS

**\*BT1** electrical equipment  
*RT* equipment protection devices  
*RT* switches  
*RT* switching circuits

### release (fission product)

1980-11-07  
 USE fission product release

### RELEASE LIMITS

*RT* radiation hazards  
*RT* radioactive wastes  
*RT* stack disposal

### releasing factors

*INIS: 1983-02-03; ETDE: 1983-03-07*  
 USE liberins

### releasing hormones

*INIS: 1983-02-03; ETDE: 1983-03-07*  
 USE liberins

### RELIABILITY

*RT* accuracy  
*RT* amoeba effect  
*RT* errors  
*RT* failure mode analysis  
*RT* failures  
*RT* fault tolerant computers  
*RT* hazards  
*RT* outages  
*RT* performance  
*RT* quality assurance  
*RT* quality control  
*RT* radiation protection  
*RT* reactor safety  
*RT* redundancy  
*RT* risk assessment  
*RT* safety margins  
*RT* specifications  
*RT* systems analysis  
*RT* var control systems

### relic radiation

*INIS: 1984-04-25; ETDE: 1984-05-23*  
 USE relict radiation

### RELICT RADIATION

*INIS: 1984-04-25; ETDE: 1984-05-23*  
*Thermal microwave background radiation of the universe believed to date from the early universe.*  
*UF* cmb radiation  
*UF* cosmic microwave background  
*UF* relic radiation  
**\*BT1** microwave radiation  
*RT* background radiation  
*RT* cosmic radiation  
*RT* universe

### RELIEF VALVES

1986-04-04  
*UF* rupture disks  
*UF* safety valves  
**\*BT1** valves

### relieving (stress)

USE stress relaxation

### RELOADABLE FUEL ASSEMBLIES

2003-10-21  
*Ring-shaped elements, which can carry different replaceable inner parts; after replacement of the replaceable parts, they can be reloaded into the core for further operation.*  
**BT1** fuel assemblies

### rem

*For studies concerning units, concepts, or definitions. See also dose equivalents.*  
 USE radiation dose units

**REMEDIAL ACTION**

*INIS: 1985-04-23; ETDE: 1984-06-29*

*Activities conducted to reduce potential exposure of people to hazardous materials or ionizing radiation, and potential harm to the environment from hazardous materials contamination.*

UF site rehabilitation  
SF mine site rehabilitation

NT1 bioremediation  
RT abandoned sites  
RT contamination  
RT decommissioning  
RT decontamination  
RT environmental engineering  
RT land reclamation  
RT natural attenuation  
RT radiation doses  
RT radiation protection  
RT tailings  
RT us superfund

**REMERSCHEN REACTOR**

*INIS: 1994-07-19; ETDE: 1976-09-15*

\*BT1 pwr type reactors

**REMOTE AREAS**

*INIS: 1994-10-13; ETDE: 1978-06-14*

UF isolated locations  
RT rural areas

**REMOTE CONTROL**

BT1 control  
RT hydraulic control devices  
RT remote handling  
RT servomechanisms

**REMOTE HANDLING**

RT automation  
RT clean rooms  
RT contact handling  
RT distance  
RT gloveboxes  
RT hot cells  
RT hot labs  
RT man-machine systems  
RT manipulators  
RT materials handling  
RT materials handling equipment  
RT periscopes  
RT radiation protection  
RT reactor charging machines  
RT reactor fueling  
RT remote control  
RT remote handling equipment  
RT sample changers  
RT sample holders  
RT work

**REMOTE HANDLING EQUIPMENT**

(From August 1979 till March 1997

RETRIEVAL SYSTEMS was a valid ETDE descriptor.)

SF retrieval systems  
\*BT1 materials handling equipment  
NT1 cranes  
NT1 manipulators  
RT auxiliary systems  
RT hot cells  
RT laboratory equipment  
RT remote handling  
RT remote viewing equipment  
RT robots

**REMOTE MULTIPLEXING SYSTEMS**

*INIS: 2000-04-12; ETDE: 1978-01-23*

*Systems for the remote transmission of data and control signals in power plants or process equipment.*

RT multiplexers

RT on-line control systems

**REMOTE SENSING**

*1978-09-28*

*Techniques for conducting measurements from aeroplanes or satellites such as for geologic exploration.*

RT acoustic radar  
RT aerial monitoring  
RT aerial prospecting  
RT aerial surveying  
RT exploration  
RT geophysical surveys  
RT geos satellites  
RT goes satellites  
RT ground truth measurements  
RT landsat satellites  
RT multispectral photography  
RT optical radar  
RT satellites  
RT seasat satellites  
RT sensors  
RT thermography

**REMOTE VIEWING EQUIPMENT**

BT1 equipment  
RT hot cells  
RT laboratory equipment  
RT lighting systems  
RT optical systems  
RT remote handling equipment  
RT television  
RT video tapes

**REMOVAL**

*1991-08-14*

UF tioga nitrogen removal process  
NT1 after-heat removal  
NT1 cuttings removal  
NT1 reactor poison removal  
NT1 water removal  
RT deashing  
RT fission product release

**removal (after-heat)**

USE after-heat removal

**removal (reactor poison)**

USE reactor poison removal

**RENAL CLEARANCE**

UF clearance (renal)

\*BT1 excretion  
RT glomeruli  
RT kidneys  
RT metabolism  
RT renography  
RT tubules

**RENE-100**

*INIS: 2000-04-12; ETDE: 1978-12-20*

\*BT1 aluminium alloys  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys  
\*BT1 titanium alloys

**RENE 41**

*1993-10-03*

\*BT1 alloy-ni55cr19co11mo10ti3  
\*BT1 carbon additions  
\*BT1 iron alloys

**RENE 80**

*INIS: 1993-10-03; ETDE: 1978-12-20*

\*BT1 aluminium alloys  
\*BT1 boron additions  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys

\*BT1 molybdenum alloys  
\*BT1 nickel base alloys  
\*BT1 titanium alloys  
\*BT1 tungsten alloys  
\*BT1 zirconium additions

**RENE 95**

*INIS: 1993-10-03; ETDE: 1976-02-19*

\*BT1 aluminium alloys  
\*BT1 carbon additions  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 iron additions  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys  
\*BT1 niobium alloys  
\*BT1 titanium alloys  
\*BT1 tungsten alloys  
\*BT1 zirconium additions

**RENEWABLE ENERGY SOURCES**

*INIS: 1981-02-27; ETDE: 1977-09-19*

(From December 1978 till May 1996 RENEWABLE RESOURCES was a valid ETDE descriptor.)

SF green energy  
SF renewable resources  
BT1 energy sources  
NT1 biomass  
NT1 geothermal energy  
NT1 hydroelectric power  
NT1 solar energy  
NT1 tidal power  
NT1 wave power  
NT1 wind power  
RT appropriate technology  
RT plants  
RT synthetic fuels corporation

**renewable resources**

*INIS: 2000-04-12; ETDE: 1978-12-11*

*Organic compounds currently produced by photosynthesis or derived from products of photosynthesis that are utilized by man in the form of plant or animal products.*

(Prior to May 1996 this was a valid ETDE descriptor.)

SEE biomass  
SEE materials  
SEE organic compounds  
SEE renewable energy sources  
SEE resources

**RENIN**

*Code numbers 3.4.99.1, 3.4.99.2, and 3.4.99.3.*

\*BT1 nonspecific peptidases  
RT blood pressure  
RT kidneys

**RENOGRAPHY**

*1980-05-14*

\*BT1 biomedical radiography  
RT kidneys  
RT renal clearance  
RT tracer techniques

**RENORMALIZATION**

NT1 charge renormalization  
NT1 mass renormalization  
RT quantum field theory

**RENSSELAER CRITICAL FACILITY**

*Rensselaer Polytechnic Inst., Troy, New York, USA.*

\*BT1 zero power reactors

**REPAIR**

NT1 biological repair  
NT2 dna repair



- NT3 excision repair
- NT2 host-cell reactivation
- NT2 photoreactivation
- RT maintenance
- RT reactor maintenance
- RT reactor operation

**repair (biological)**

- USE biological repair

**repair pathways**

INIS: 1978-11-24; ETDE: 1978-12-20

- USE biological pathways

**REPEALS**

INIS: 2000-04-12; ETDE: 1981-05-18

- RT laws
- RT legal aspects

**REPLACEABLE FUEL ASSEMBLIES**

2003-10-21

Inner parts of annular fuel elements, which can be replaced while the outer parts continue to be operated.

- BT1 fuel assemblies

**REPLICA TECHNIQUES**

- RT ceramography
- RT replicas

**REPLICAS**

- RT crystal models
- RT electron microscopy
- RT replica techniques

**REPLICONS**

INIS: 2000-04-12; ETDE: 1987-04-24

Chromosomal elements which serve as an initiation point for DNA synthesis during cell replication.

- BT1 genes
- RT cell cycle
- RT cell proliferation

**REPORTING REQUIREMENTS**

INIS: 1986-04-03; ETDE: 1980-03-29

Also includes the reports generated as a result of the requirements.

- UF reports required
- UF required reports
- RT administrative procedures
- RT data acquisition
- RT documentation
- RT information needs
- RT regulations

**reports required**

INIS: 1986-04-04; ETDE: 2002-05-03

- USE reporting requirements

**repowering**

INIS: 2000-04-12; ETDE: 1980-10-07

- SEE solar repowering

**representations (irreducible)**

- USE irreducible representations

**representations (nonunitary)**

- USE nonunitary representations

**repressuring**

INIS: 1984-12-04; ETDE: 1976-07-07

- USE pressurization

**REPROCESSING**

1996-07-18

(CARBOX PROCESS, DAREX PROCESS, FLUOROX PROCESS, FLUREX PROCESS, HERMEX PROCESS, NEPTEX PROCESS, PROMEX PROCESS, RAHYD PROCESS, SULFEX PROCESS, and THERMOX PROCESS have been valid descriptors.)

- UF carbox process

- UF darex process
- UF fluorox process
- UF flurex process
- UF fuel reprocessing
- UF hermex process
- UF neptex process
- UF proliferation resistant molten salt/metal extraction
- UF promex process
- UF rahyd process
- UF recycling (nuclear fuel)
- UF sulfex process
- UF thermox process
- SF arco process
- BT1 separation processes
- NT1 airox process
- NT1 amex process
- NT1 chloride volatility process
- NT1 civex process
- NT1 csrex process
- NT1 dapex process
- NT1 diamex process
- NT1 eurex process
- NT1 fluoride volatility process
- NT1 iodox process
- NT1 purex process
- NT1 pyrochemical reprocessing
- NT1 redox process
- NT1 sesame process
- NT1 talspeak process
- NT1 thorex process
- NT1 tramex process
- NT1 truex process
- NT1 zirflex process
- RT consolidated fuel reprocessing program
- RT decladding
- RT denitration
- RT eurochemic
- RT fuel cycle
- RT fuel reprocessing plants
- RT head end processes
- RT nuclear materials management
- RT process control
- RT sol-gel process
- RT solvent extraction
- RT spent fuel elements
- RT wackersdorf reprocessing plant
- RT wak
- RT zone refining

**REPRODUCTION**

- UF parthenogenesis
- RT adults
- RT animal breeding
- RT embryos
- RT female genitals
- RT fertility
- RT fertilization
- RT flowers
- RT gonads
- RT life cycle
- RT male genitals
- RT mating
- RT mutations
- RT nests
- RT oogenesis
- RT ovulation
- RT physiology
- RT plant breeding
- RT pollen
- RT population dynamics
- RT pregnancy
- RT progeny
- RT reproductive disorders
- RT sex
- RT spermatogenesis
- RT spores
- RT vegetative propagation

- RT viability
- RT zygotes

**REPRODUCTIVE DISORDERS**

- \*BT1 urogenital system diseases
- RT abortion
- RT castration
- RT endocrine diseases
- RT fertility
- RT menstruation disorders
- RT pregnancy
- RT reproduction
- RT sterility

**REPTILES**

1997-06-17

- \*BT1 vertebrates
- NT1 alligators
- NT1 lizards
- NT1 snakes
- NT1 turtles

**REPUBLIC OF GEORGIA**

INIS: 1997-08-20; ETDE: 1993-04-08

(Until January 1993, this was indexed by USSR.)

- UF georgia (republic of)
- SF soviet union
- SF union of soviet socialist republics
- SF ussr
- BT1 asia
- RT black sea
- RT caucasus

**REPUBLIC OF KOREA**

- UF korea (south)
- UF south korea

- BT1 asia
- BT1 developing countries
- RT oecd

**REPUBLIC OF SEYCHELLES**

2003-05-20

- UF seychelles (republic of)
- BT1 africa
- BT1 developing countries

**republic of zaire**

(Prior to September 1997 ZAIRE REPUBLIC was used for this concept in ETDE.)

- USE democratic republic of the congo

**republikove uloziste radioaktivnych odpadov v mochovciach**

2002-12-17

- USE mochovce radioactive waste repository

**required reports**

INIS: 1986-04-03; ETDE: 2002-05-03

- USE reporting requirements

**RESCATTERING**

- BT1 scattering
- RT nuclear reaction kinetics
- RT nuclear reactions
- RT strong interactions

**RESCUE OPERATIONS**

INIS: 2000-04-12; ETDE: 1978-09-11

- NT1 mine rescue

**RESEARCH AND TEST REACTORS**

- BT1 reactors
- NT1 argonaut type reactors
- NT2 aeg-pr-10 reactor
- NT2 arbi reactor
- NT2 argonaut reactor
- NT2 argos reactor
- NT2 athene reactor
- NT2 jason reactor
- NT2 lfr reactor

NT2	moata reactor	NT2	tz2 reactor	NT3	stacy reactor
NT2	nestor reactor	NT2	uhtrex reactor	NT3	tca reactor
NT2	queen mary college utr-b reactor	NT2	venus reactor	NT3	tr-0 reactor
NT2	ra-1 reactor	NT2	vhtr reactor	NT3	tracy reactor
NT2	rb-2 reactor	NT2	xe-2 reactor	NT3	vera reactor
NT2	rien-1 reactor	NT2	xe-prime reactor	NT3	zebra reactor
NT2	srrc-utr-100 reactor	NT2	xma-1 reactor	NT3	zeep reactor
NT2	stark reactor	NT2	zero power reactors	NT3	zenith reactor
NT2	strasbourg-cronenbourg reactor	NT3	agata reactor	NT3	zephyr reactor
NT2	uftr reactor	NT3	akr-1 reactor	NT3	zerlina reactor
NT2	ulysses reactor	NT3	anex reactor	NT3	zlftr reactor
NT2	urr reactor	NT3	anna reactor	NT3	zppr reactor
NT2	utr-10-kinki reactor	NT3	apfa-3 reactor	NT3	zpr-3 reactor
NT2	vpi-utr-10 reactor	NT3	aquilon reactor	NT3	zpr-6 reactor
NT1	experimental reactors	NT3	bfs reactor	NT3	zpr-9 reactor
NT2	aps reactor	NT3	big ten reactor	NT3	zpr reactor
NT2	arbus reactor	NT3	cfmf reactor	NT3	zr-6 reactor
NT2	atrc reactor	NT3	cml reactor	NT2	zrr reactor
NT2	bilibin reactor	NT3	coral-1 reactor	NT1	kalpakkam pfr reactor
NT2	bor-60 reactor	NT3	crocus reactor	NT1	kamini reactor
NT2	borax-1 reactor	NT3	dca reactor	NT1	maple reactor
NT2	borax-2 reactor	NT3	dimple reactor	NT1	maple type reactors
NT2	borax-3 reactor	NT3	ecl reactor	NT1	maria reactor
NT2	borax-4 reactor	NT3	ermine reactor	NT1	nuclear furnace reactor
NT2	br-3-vn reactor	NT3	etc reactor	NT1	purnima-3 reactor
NT2	cefr reactor	NT3	fca reactor	NT1	research reactors
NT2	cesar reactor	NT3	flattop reactor	NT2	aarr reactor
NT2	dff reactor	NT3	fr-0 reactor	NT2	acpr reactor
NT2	dragon reactor	NT3	godiva reactor	NT2	aeg-pr-10 reactor
NT2	ebr-1 reactor	NT3	hero reactor	NT2	aerojet-general nucleonics reactors
NT2	ebr-2 reactor	NT3	hitrex-1 reactor	NT2	afirri reactor
NT2	ebwr reactor	NT3	horace reactor	NT2	afsr reactor
NT2	egcr reactor	NT3	hwzpr reactor	NT2	agata reactor
NT2	el-1 reactor	NT3	iea-zpr reactor	NT2	ai-l-77 reactor
NT2	eocr reactor	NT3	ifr reactor	NT2	alrr reactor
NT2	esada-vesr reactor	NT3	ipen-mb-1 reactor	NT2	anna reactor
NT2	ewg-1 reactor	NT3	jezebel reactor	NT2	aprf reactor
NT2	gcre reactor	NT3	juno reactor	NT2	apsara reactor
NT2	hbwr reactor	NT3	kahter reactor	NT2	arbi reactor
NT2	hdr reactor	NT3	kbr-1 reactor	NT2	argonaut reactor
NT2	hre-2 reactor	NT3	kritz reactor	NT2	argos reactor
NT2	htr-10 reactor	NT3	kuca reactor	NT2	argus reactor
NT2	httr reactor	NT3	lptf reactor	NT2	armf-1 reactor
NT2	igr reactor	NT3	lr-0 reactor	NT2	astra reactor
NT2	ir-100 reactor	NT3	lvr-15 reactor	NT2	athene reactor
NT2	joyo reactor	NT3	marius reactor	NT2	atpr reactor
NT2	jpdr reactor	NT3	maryla reactor	NT2	atsr reactor
NT2	jules horowitz reactor	NT3	masurca reactor	NT2	avogadro rs-1 reactor
NT2	kiwi-tnt reactor	NT3	minerve reactor	NT2	barn reactor
NT2	knk-2 reactor	NT3	neptune reactor	NT2	bepo reactor
NT2	knk reactor	NT3	nsf-rfp reactor	NT2	ber-2 reactor
NT2	lampre-1 reactor	NT3	or-cef reactor	NT2	bgrr reactor
NT2	mh-1a reactor	NT3	ornl-pca reactor	NT2	bigr reactor
NT2	mir reactor	NT3	parka reactor	NT2	bir reactor
NT2	msre reactor	NT3	pdp reactor	NT2	br-02 reactor
NT2	nrx-a1 reactor	NT3	peggy reactor	NT2	br-1 reactor
NT2	nrx-a2 reactor	NT3	pelinduna reactor	NT2	brr reactor
NT2	nrx-a3 reactor	NT3	plasma core assembly	NT2	bsr-1 reactor
NT2	nrx-a4-est reactor	NT3	prcf reactor	NT2	bsr-2 reactor
NT2	nrx-a5 reactor	NT3	ptf-unc reactor	NT2	byu l-77 reactor
NT2	nrx-a6 reactor	NT3	purnima-2 reactor	NT2	cabri reactor
NT2	nrx-a7 reactor	NT3	purnima reactor	NT2	cesar reactor
NT2	omre reactor	NT3	r-b reactor	NT2	cesnef reactor
NT2	opal reactor	NT3	ra-0 reactor	NT2	cirus reactor
NT2	rover reactors	NT3	ra-2 reactor	NT2	clementine reactor
NT2	sefor reactor	NT3	ra-8 reactor	NT2	consort-2 reactor
NT2	spert-1 reactor	NT3	rake-2 reactor	NT2	coral-1 reactor
NT2	spert-2 reactor	NT3	rb-1 reactor	NT2	cp-2 reactor
NT2	spert-3 reactor	NT3	rb-3 reactor	NT2	cp-3 reactor
NT2	spert-4 reactor	NT3	rensselaer critical facility	NT2	cp-3m reactor
NT2	sre reactor	NT3	ritmo reactor	NT2	cp-5 reactor
NT2	subcritical assemblies	NT3	rospo reactor	NT2	cp-6 reactor
NT3	pse reactor	NT3	saref reactor	NT2	crocus reactor
NT3	stsf assembly	NT3	shca reactor	NT2	democritus reactor
NT2	topaz reactor	NT3	silene reactor	NT2	dhruva reactor
NT2	tory-2a reactor	NT3	siloette reactor	NT2	dido reactor
NT2	tory-2c reactor	NT3	sneak reactor	NT2	diorit reactor
NT2	treat reactor	NT3	split table reactor	NT2	dmtr reactor
NT2	tz1 reactor	NT3	sr-0a reactor	NT2	dow triga-mk-1 reactor

NT2	dr-1 reactor	NT2	jeep-2 reactor	NT2	ra-5 reactor
NT2	dr-2 reactor	NT2	jen-1 reactor	NT2	ra-6 reactor
NT2	dr-3 reactor	NT2	jen-2 reactor	NT2	ra-8 reactor
NT2	ebor reactor	NT2	jen reactor	NT2	rake-2 reactor
NT2	ebr-1 reactor	NT2	jmtr reactor	NT2	rana reactor
NT2	eco reactor	NT2	jrr-1 reactor	NT2	rb-1 reactor
NT2	el-1 reactor	NT2	jrr-2 reactor	NT2	rg-1m reactor
NT2	el-2 reactor	NT2	jrr-3 reactor	NT2	rien-1 reactor
NT2	el-3 reactor	NT2	jrr-3m reactor	NT2	rinsc reactor
NT2	eocr reactor	NT2	jrr-4 reactor	NT2	ritmo reactor
NT2	eole reactor	NT2	juno reactor	NT2	romashka reactor
NT2	es-salam reactor	NT2	kartini-ppny reactor	NT2	rp-10 reactor
NT2	etr reactor	NT2	king reactor	NT2	rpt reactor
NT2	etrc reactor	NT2	kstr reactor	NT2	rts-1 reactor
NT2	etrr-1 reactor	NT2	kuhfr reactor	NT2	rv-1 reactor
NT2	etrr-2 reactor	NT2	kur reactor	NT2	safari-1 reactor
NT2	ewa reactor	NT2	la reina rech-1 reactor	NT2	sbr-1 reactor
NT2	f-1 reactor	NT2	lfr reactor	NT2	sbr-2 reactor
NT2	fbrf reactor	NT2	lido reactor	NT2	sbr-5 reactor
NT2	ffitf reactor	NT2	lo aguirre rech-2 reactor	NT2	scarabee reactor
NT2	fir-1 reactor	NT2	lpr reactor	NT2	silene reactor
NT2	fmr reactor	NT2	lptr reactor	NT2	slowpoke type reactors
NT2	fmr reactor	NT2	ltir reactor	NT3	slowpoke-alberta reactor
NT2	fr-0 reactor	NT2	lvr-15 reactor	NT3	slowpoke-dalhousie reactor
NT2	fr-2 reactor	NT2	marius reactor	NT3	slowpoke-montreal reactor
NT2	frf reactor	NT2	maryla reactor	NT3	slowpoke-ottawa reactor
NT2	fig-1 reactor	NT2	melusine-1 reactor	NT3	slowpoke-toronto reactor
NT2	fig-2 reactor	NT2	merlin reactor	NT3	slowpoke-wmre reactor
NT2	frj-1 reactor	NT2	minerve reactor	NT2	sneak reactor
NT2	frj-2 reactor	NT2	mitr reactor	NT2	sora reactor
NT2	frm-ii reactor	NT2	mnr reactor	NT2	spert-1 reactor
NT2	frm reactor	NT2	mnsr type reactors	NT2	spr-2 reactor
NT2	fm reactor	NT3	gharr-1 reactor	NT2	spr-3 reactor
NT2	ga siwabessy reactor	NT3	mnsr-ciae reactor	NT2	spr-4 reactor
NT2	gidra reactor	NT3	mnsr-sd reactor	NT2	sr-1 reactor
NT2	gleep reactor	NT3	mnsr-sh reactor	NT2	sr-0a reactor
NT2	grenoble reactor	NT3	mnsr-sz reactor	NT2	srrc-utr-100 reactor
NT2	gtr reactor	NT3	nirr-1 reactor	NT2	stf reactor
NT2	gulf triga-mk-3 reactor	NT3	parr-2 reactor	NT2	supo reactor
NT2	hanaro reactor	NT3	srr-1 reactor	NT2	swierk r-2 reactor
NT2	harmonie reactor	NT2	moata reactor	NT2	taiwan research reactor
NT2	hector reactor	NT2	mr reactor	NT2	tapiro reactor
NT2	herald reactor	NT2	mrr reactor	NT2	tca reactor
NT2	hero reactor	NT2	murr reactor	NT2	thetis reactor
NT2	hew-305 reactor	NT2	nbsr reactor	NT2	thor reactor
NT2	hfb reactor	NT2	ncscr-1 reactor	NT2	tibr reactor
NT2	hfir reactor	NT2	nestor reactor	NT2	tory-2a reactor
NT2	hfr reactor	NT2	nhr-5 reactor	NT2	toshiba reactor
NT2	hifar reactor	NT2	nora reactor	NT2	tr-1 reactor
NT2	hor reactor	NT2	nru reactor	NT2	tr-2 reactor
NT2	horace reactor	NT2	nrx reactor	NT2	triga-1-michigan reactor
NT2	hpr reactor	NT2	nsrr reactor	NT2	triton reactor
NT2	hre-2 reactor	NT2	ntr reactor	NT2	trr-1 reactor
NT2	htl reactor	NT2	nur reactor	NT2	tsr-2 reactor
NT2	htr reactor	NT2	orphee reactor	NT2	ufr reactor
NT2	hwrr reactor	NT2	osiris reactor	NT2	uknr reactor
NT2	ian-r1 reactor	NT2	owr reactor	NT2	umne-1 reactor
NT2	ibr-2 reactor	NT2	parr-1 reactor	NT2	umrr reactor
NT2	ibr-30 reactor	NT2	pat reactor	NT2	utr-10-kinki reactor
NT2	iea-zpr reactor	NT2	pbr reactor	NT2	utrr reactor
NT2	iear-1 reactor	NT2	pctr reactor	NT2	uvar reactor
NT2	irl reactor	NT2	phebus reactor	NT2	vera reactor
NT2	irr-1 reactor	NT2	pik physical model reactor	NT2	viper reactor
NT2	irr-2 reactor	NT2	pik reactor	NT2	vpi-utr-10 reactor
NT2	irt-1 libya reactor	NT2	prnc-1-77 reactor	NT2	wrrr reactor
NT2	irt-2000 djakarta reactor	NT2	proteus reactor	NT2	wsur reactor
NT2	irt-2000 moscow reactor	NT2	ptr reactor	NT2	wtr reactor
NT2	irt-baghdad reactor	NT2	pstr reactor	NT2	wwr-2 reactor
NT2	irt-c reactor	NT2	ptr reactor	NT2	wwr-k-almaty reactor
NT2	irt-f reactor	NT2	pulstar-buffalo reactor	NT2	wwr-m-kiev reactor
NT2	irt-m reactor	NT2	pulstar-raleigh reactor	NT2	wwr-m-leningrad reactor
NT2	irt reactor	NT2	r-1 reactor	NT2	wwr-s-bucharest reactor
NT2	irt-sofia reactor	NT2	r-2 reactor	NT2	wwr-s-cairo reactor
NT2	isis reactor	NT2	r-a reactor	NT2	wwr-s-moscow reactor
NT2	ispra-1 reactor	NT2	r2-0 reactor	NT2	wwr-s-prague reactor
NT2	ivv-2m reactor	NT2	ra-0 reactor	NT2	wwr-s-tashkent reactor
NT2	ivv-7 reactor	NT2	ra-2 reactor	NT2	wwr-sm rossendorf reactor
NT2	janus reactor	NT2	ra-3 reactor	NT2	wwr-z reactor
NT2	jason reactor	NT2	ra-4 reactor	NT2	x-10 reactor

NT2	xapr reactor	NT2	ra-8 reactor	NT2	sr-3p reactor
NT2	zebra reactor	NT2	rapso die reactor	NT2	srcc-utr-100 reactor
NT2	zeep reactor	NT2	rts-1 reactor	NT2	stark reactor
NT2	zenith reactor	NT2	s1c prototype reactor	NT2	strasbourg-cronenbourg reactor
NT2	zerlina reactor	NT2	safari-1 reactor	NT2	sur-100 series reactor
NT2	zlf reactor	NT2	sbr-5 reactor	NT2	thetis reactor
NT2	zppr reactor	NT2	snaptan reactors	NT2	thor reactor
NT1	super kukla reactor	NT2	stf reactor	NT2	toshiba reactor
NT1	test reactors	NT2	tapiro reactor	NT2	tr-1 reactor
NT2	aipfr reactor	NT2	tory-2a reactor	NT2	trico reactor
NT2	arbus reactor	NT2	tory-2c reactor	NT2	triga-1-michigan reactor
NT2	astr reactor	NT2	treat reactor	NT2	triga-2-pavia reactor
NT2	astra reactor	NT2	triga-1-michigan reactor	NT2	trr-1 reactor
NT2	atpr reactor	NT2	triga-2-pavia reactor	NT2	ucbrr reactor
NT2	atr reactor	NT2	tsr-1 reactor	NT2	uftr reactor
NT2	bam reactor	NT2	tsr-2 reactor	NT2	ulyse reactor
NT2	bawtr reactor	NT2	urr reactor	NT2	umne-1 reactor
NT2	bgr reactor	NT2	uvar reactor	NT2	umrr reactor
NT2	borax-5 reactor	NT2	viper reactor	NT2	urr reactor
NT2	br-02 reactor	NT2	wr-1 reactor	NT2	utr-10-kinki reactor
NT2	brr reactor	NT2	wtr reactor	NT2	uvar reactor
NT2	cesnef reactor	NT1	training reactors	NT2	uwnr reactor
NT2	cirus reactor	NT2	aerojet-general nucleonics reactors	NT2	uwtr reactor
NT2	cp-5 reactor	NT2	afri reactor	NT2	vpi-utr-10 reactor
NT2	dhruva reactor	NT2	ai-1-77 reactor	NT2	vr-1 reactor
NT2	dimple reactor	NT2	akr-1 reactor	NT2	wnt reactor
NT2	diorit reactor	NT2	apsara reactor	NT2	wpir reactor
NT2	ebor reactor	NT2	arbi reactor	NT2	wwr-s-budapest reactor
NT2	ebr-1 reactor	NT2	argonaut reactor	NT2	x-10 reactor
NT2	eco reactor	NT2	argos reactor	NT2	zlf reactor
NT2	eoer reactor	NT2	athene reactor	NT2	zpr reactor
NT2	esada-vesr reactor	NT2	atpr reactor	NT1	triga type reactors
NT2	essor reactor	NT2	bgr reactor	NT2	afri reactor
NT2	etr reactor	NT2	budapest training reactor	NT2	atpr reactor
NT2	etrc reactor	NT2	byu 1-77 reactor	NT2	colorado triga-mk-3 reactor
NT2	ffif reactor	NT2	cesnef reactor	NT2	cornell triga-mk-2 reactor
NT2	fir-1 reactor	NT2	cirus reactor	NT2	dow triga-mk-1 reactor
NT2	fmr reactor	NT2	colorado triga-mk-3 reactor	NT2	fir-1 reactor
NT2	fnr reactor	NT2	consort-2 reactor	NT2	frf-2 reactor
NT2	fr-2 reactor	NT2	cornell triga-mk-2 reactor	NT2	frn reactor
NT2	frctf reactor	NT2	dow triga-mk-1 reactor	NT2	gulf triga-mk-3 reactor
NT2	frg-1 reactor	NT2	dr-1 reactor	NT2	kartini-ppny reactor
NT2	frn reactor	NT2	es-salam reactor	NT2	lopra reactor
NT2	getr reactor	NT2	fir-1 reactor	NT2	nscr reactor
NT2	grenoble reactor	NT2	fnr reactor	NT2	ostr reactor
NT2	gtr reactor	NT2	fr-0 reactor	NT2	prpr reactor
NT2	gtrr reactor	NT2	frf reactor	NT2	psr reactor
NT2	hanaro reactor	NT2	frg-1 reactor	NT2	rtp reactor
NT2	harmonie reactor	NT2	gleep reactor	NT2	trico reactor
NT2	herald reactor	NT2	gtr reactor	NT2	triga-1-arizona reactor
NT2	hero reactor	NT2	gulf triga-mk-3 reactor	NT2	triga-1-california reactor
NT2	hew-305 reactor	NT2	hor reactor	NT2	triga-1-hanford reactor
NT2	hfir reactor	NT2	htr reactor	NT2	triga-1-hanover reactor
NT2	hifar reactor	NT2	ian-r1 reactor	NT2	triga-1-heidelberg reactor
NT2	hre-2 reactor	NT2	iowa utr-10 reactor	NT2	triga-1-michigan reactor
NT2	htl reactor	NT2	ir-100 reactor	NT2	triga-2-bandung reactor
NT2	htr-10 reactor	NT2	jason reactor	NT2	triga-2-bangladesh reactor
NT2	irl reactor	NT2	jrr-1 reactor	NT2	triga-2-dalat reactor
NT2	irr-1 reactor	NT2	kur reactor	NT2	triga-2-illinois reactor
NT2	irt-2000 djakarta reactor	NT2	lfr reactor	NT2	triga-2-kansas reactor
NT2	irt-2000 moscow reactor	NT2	melusine-1 reactor	NT2	triga-2-ljubljana reactor
NT2	irt-baghdad reactor	NT2	merlin reactor	NT2	triga-2-mainz reactor
NT2	ispri-1 reactor	NT2	mitr reactor	NT2	triga-2-musashi reactor
NT2	jmtr reactor	NT2	moata reactor	NT2	triga-2-pavia reactor
NT2	kalpakkam 1mfbr reactor	NT2	murr reactor	NT2	triga-2-pitesti reactor
NT2	loft reactor	NT2	nscr-1 reactor	NT2	triga-2 reactor
NT2	mzfr reactor	NT2	nevada university reactor	NT2	triga-2-rikkyo reactor
NT2	netr reactor	NT2	nscr reactor	NT2	triga-2-rome reactor
NT2	nru reactor	NT2	ostr reactor	NT2	triga-2-seoul reactor
NT2	ntr reactor	NT2	osur reactor	NT2	triga-2-vienna reactor
NT2	orphee reactor	NT2	prnc-1-77 reactor	NT2	triga-3-la jolla reactor
NT2	owr reactor	NT2	psr reactor	NT2	triga-3-munich reactor
NT2	pat reactor	NT2	pur-1 reactor	NT2	triga-3-salazar reactor
NT2	pegase reactor	NT2	queen mary college utr-b reactor	NT2	triga-3-seoul reactor
NT2	proteus reactor	NT2	r-b reactor	NT2	triga-brazil reactor
NT2	ra-3 reactor	NT2	ra-1 reactor	NT2	triga-texas reactor
NT2	ra-4 reactor	NT2	rien-1 reactor	NT2	triga-veterans reactor
NT2	ra-5 reactor	NT2	rts-1 reactor	NT2	ucbrr reactor
NT2	ra-6 reactor	NT2	rv-1 reactor	NT2	uwnr reactor

NT2 wsur reactor  
NT1 yayoi reactor

### research center nuclear physics cyclotron

INIS: 1993-11-09; ETDE: 2002-05-03  
Research Center for Nuclear Physics, Osaka University.  
USE rcnp cyclotron

### research establishment risoe

INIS: 1977-03-14; ETDE: 2002-05-03  
USE risoe research establishment

### research licenses

INIS: 1990-12-15; ETDE: 1996-02-09  
(Prior to December 1990, this was a valid descriptor.)  
USE licenses

## RESEARCH PROGRAMS

To be used jointly with descriptor(s) for subject field and/or organization concerned.

UF energy research advisory board  
NT1 coordinated research programs  
NT2 consolidated fuel reprocessing program  
NT2 ifip  
RT demonstration programs  
RT experiment planning  
RT historical aspects  
RT information needs  
RT laboratories  
RT planning  
RT program management  
RT recommendations  
RT reviews  
RT us napap  
RT us national program plans

## RESEARCH REACTORS

1996-01-24

UF la reina reactor  
SF berkeley nuclear laboratory reactor  
SF bnl reactor  
\*BT1 research and test reactors  
NT1 aarr reactor  
NT1 acpr reactor  
NT1 aeg-pr-10 reactor  
NT1 aerojet-general nucleonics reactors  
NT1 afri reactor  
NT1 afsr reactor  
NT1 agata reactor  
NT1 ai-l-77 reactor  
NT1 alrr reactor  
NT1 anna reactor  
NT1 aprf reactor  
NT1 apsara reactor  
NT1 arbi reactor  
NT1 argonaut reactor  
NT1 argos reactor  
NT1 argus reactor  
NT1 armf-1 reactor  
NT1 astra reactor  
NT1 athene reactor  
NT1 atpr reactor  
NT1 atsr reactor  
NT1 avogadro rs-1 reactor  
NT1 bam reactor  
NT1 bepo reactor  
NT1 ber-2 reactor  
NT1 bgrr reactor  
NT1 bigr reactor  
NT1 bir reactor  
NT1 br-02 reactor  
NT1 br-1 reactor  
NT1 brr reactor  
NT1 bsr-1 reactor  
NT1 bsr-2 reactor  
NT1 byu l-77 reactor

NT1 cabri reactor  
NT1 cesar reactor  
NT1 cesnef reactor  
NT1 cirus reactor  
NT1 clementine reactor  
NT1 consort-2 reactor  
NT1 coral-1 reactor  
NT1 cp-2 reactor  
NT1 cp-3 reactor  
NT1 cp-3m reactor  
NT1 cp-5 reactor  
NT1 cp-6 reactor  
NT1 crocus reactor  
NT1 democritus reactor  
NT1 dhruva reactor  
NT1 dido reactor  
NT1 diorit reactor  
NT1 dmtr reactor  
NT1 dow triga-mk-1 reactor  
NT1 dr-1 reactor  
NT1 dr-2 reactor  
NT1 dr-3 reactor  
NT1 ebor reactor  
NT1 ebr-1 reactor  
NT1 eco reactor  
NT1 el-1 reactor  
NT1 el-2 reactor  
NT1 el-3 reactor  
NT1 eocr reactor  
NT1 eole reactor  
NT1 es-salam reactor  
NT1 etr reactor  
NT1 etrc reactor  
NT1 etrr-1 reactor  
NT1 etrr-2 reactor  
NT1 ewa reactor  
NT1 f-1 reactor  
NT1 fbrf reactor  
NT1 fftf reactor  
NT1 fir-1 reactor  
NT1 fmrbr reactor  
NT1 fnr reactor  
NT1 fr-0 reactor  
NT1 fr-2 reactor  
NT1 frf reactor  
NT1 frg-1 reactor  
NT1 frg-2 reactor  
NT1 frj-1 reactor  
NT1 frj-2 reactor  
NT1 frm-ii reactor  
NT1 frm reactor  
NT1 frn reactor  
NT1 ga siwabessy reactor  
NT1 gidra reactor  
NT1 gleep reactor  
NT1 grenoble reactor  
NT1 gtrr reactor  
NT1 gulf triga-mk-3 reactor  
NT1 hanaro reactor  
NT1 harmonie reactor  
NT1 hector reactor  
NT1 herald reactor  
NT1 hero reactor  
NT1 hew-305 reactor  
NT1 hfbr reactor  
NT1 hfir reactor  
NT1 hfr reactor  
NT1 hifar reactor  
NT1 hor reactor  
NT1 horace reactor  
NT1 hprrr reactor  
NT1 hre-2 reactor  
NT1 httr reactor  
NT1 htr reactor  
NT1 hwrr reactor  
NT1 ian-r1 reactor  
NT1 ibr-2 reactor  
NT1 ibr-30 reactor  
NT1 iea-zpr reactor

NT1 iear-1 reactor  
NT1 irl reactor  
NT1 irr-1 reactor  
NT1 irr-2 reactor  
NT1 irt-1 libya reactor  
NT1 irt-2000 djakarta reactor  
NT1 irt-2000 moscow reactor  
NT1 irt-baghdad reactor  
NT1 irt-c reactor  
NT1 irt-f reactor  
NT1 irt-m reactor  
NT1 irt reactor  
NT1 irt-sofia reactor  
NT1 isis reactor  
NT1 ispra-1 reactor  
NT1 ivv-2m reactor  
NT1 ivv-7 reactor  
NT1 janus reactor  
NT1 jason reactor  
NT1 jeep-2 reactor  
NT1 jen-1 reactor  
NT1 jen-2 reactor  
NT1 jen reactor  
NT1 jmtr reactor  
NT1 jrr-1 reactor  
NT1 jrr-2 reactor  
NT1 jrr-3 reactor  
NT1 jrr-3m reactor  
NT1 jrr-4 reactor  
NT1 juno reactor  
NT1 kartini-ppny reactor  
NT1 king reactor  
NT1 kstr reactor  
NT1 kuhfr reactor  
NT1 kur reactor  
NT1 la reina rech-1 reactor  
NT1 lfr reactor  
NT1 lido reactor  
NT1 lo aguirre rech-2 reactor  
NT1 lpr reactor  
NT1 lptr reactor  
NT1 ltir reactor  
NT1 lvr-15 reactor  
NT1 marius reactor  
NT1 maryla reactor  
NT1 melusine-1 reactor  
NT1 merlin reactor  
NT1 minerve reactor  
NT1 mitr reactor  
NT1 mnr reactor  
NT1 mnsr type reactors  
NT2 gharr-1 reactor  
NT2 mnsr-ciae reactor  
NT2 mnsr-sd reactor  
NT2 mnsr-sh reactor  
NT2 mnsr-sz reactor  
NT2 nirr-1 reactor  
NT2 parr-2 reactor  
NT2 srr-1 reactor  
NT1 moata reactor  
NT1 mr reactor  
NT1 mrr reactor  
NT1 murr reactor  
NT1 nbsr reactor  
NT1 ncsr-1 reactor  
NT1 nestor reactor  
NT1 nhr-5 reactor  
NT1 nora reactor  
NT1 nru reactor  
NT1 nrx reactor  
NT1 nsrr reactor  
NT1 ntr reactor  
NT1 nur reactor  
NT1 orphee reactor  
NT1 osiris reactor  
NT1 ovr reactor  
NT1 parr-1 reactor  
NT1 pat reactor  
NT1 pbr reactor

NT1 pctr reactor  
 NT1 phebub reactor  
 NT1 pik physical model reactor  
 NT1 pik reactor  
 NT1 prnc-1-77 reactor  
 NT1 proteus reactor  
 NT1 prtr reactor  
 NT1 pstr reactor  
 NT1 ptr reactor  
 NT1 pulstar-buffalo reactor  
 NT1 pulstar-raleigh reactor  
 NT1 r-1 reactor  
 NT1 r-2 reactor  
 NT1 r-a reactor  
 NT1 r2-0 reactor  
 NT1 ra-0 reactor  
 NT1 ra-2 reactor  
 NT1 ra-3 reactor  
 NT1 ra-4 reactor  
 NT1 ra-5 reactor  
 NT1 ra-6 reactor  
 NT1 ra-8 reactor  
 NT1 rake-2 reactor  
 NT1 rana reactor  
 NT1 rb-1 reactor  
 NT1 rg-1m reactor  
 NT1 rien-1 reactor  
 NT1 rinsc reactor  
 NT1 ritmo reactor  
 NT1 romashka reactor  
 NT1 rp-10 reactor  
 NT1 rpt reactor  
 NT1 rts-1 reactor  
 NT1 rv-1 reactor  
 NT1 safari-1 reactor  
 NT1 sbr-1 reactor  
 NT1 sbr-2 reactor  
 NT1 sbr-5 reactor  
 NT1 scarabee reactor  
 NT1 silene reactor  
 NT1 slowpoke type reactors  
   NT2 slowpoke-alberta reactor  
   NT2 slowpoke-dalhousie reactor  
   NT2 slowpoke-montreal reactor  
   NT2 slowpoke-ottawa reactor  
   NT2 slowpoke-toronto reactor  
   NT2 slowpoke-wnre reactor  
 NT1 sneak reactor  
 NT1 sora reactor  
 NT1 spert-1 reactor  
 NT1 spr-2 reactor  
 NT1 spr-3 reactor  
 NT1 spr-4 reactor  
 NT1 sr-1 reactor  
 NT1 sr-oa reactor  
 NT1 srrc-utr-100 reactor  
 NT1 stf reactor  
 NT1 supo reactor  
 NT1 swierk r-2 reactor  
 NT1 taiwan research reactor  
 NT1 tapiro reactor  
 NT1 tea reactor  
 NT1 thetis reactor  
 NT1 thor reactor  
 NT1 tibr reactor  
 NT1 tory-2a reactor  
 NT1 toshiba reactor  
 NT1 tr-1 reactor  
 NT1 tr-2 reactor  
 NT1 triga-1-michigan reactor  
 NT1 triton reactor  
 NT1 trr-1 reactor  
 NT1 tsr-2 reactor  
 NT1 ufr reactor  
 NT1 uknr reactor  
 NT1 umne-1 reactor  
 NT1 umrr reactor  
 NT1 utr-10-kinki reactor  
 NT1 utrr reactor

NT1 uvar reactor  
 NT1 vera reactor  
 NT1 viper reactor  
 NT1 vpi-utr-10 reactor  
 NT1 wrrr reactor  
 NT1 wsur reactor  
 NT1 wtr reactor  
 NT1 wwr-2 reactor  
 NT1 wwr-k-almaty reactor  
 NT1 wwr-m-kiev reactor  
 NT1 wwr-m-leningrad reactor  
 NT1 wwr-s-bucharest reactor  
 NT1 wwr-s-cairo reactor  
 NT1 wwr-s-moscow reactor  
 NT1 wwr-s-prague reactor  
 NT1 wwr-s-tashkent reactor  
 NT1 wwr-sm rossendorf reactor  
 NT1 wwr-z reactor  
 NT1 x-10 reactor  
 NT1 xapr reactor  
 NT1 zebra reactor  
 NT1 zeep reactor  
 NT1 zenith reactor  
 NT1 zerlina reactor  
 NT1 zlfr reactor  
 NT1 zppr reactor

**RESELLERS**

INIS: 1992-04-03; ETDE: 1979-09-28

UF wholesale buyers  
 UF wholesale sellers  
 UF wholesalers  
 BT1 marketers  
 RT commercial sector  
 RT competition  
 RT economics  
 RT industry  
 RT market

**RESERPINE**

\*BT1 alkaloids  
 \*BT1 antihypertensive agents  
 \*BT1 hypnotics and sedatives  
 \*BT1 indoles  
 \*BT1 sympatholytics  
 \*BT1 tranquilizers

**reserve capacity**

INIS: 1982-12-03; ETDE: 1977-06-02

USE capacity

**RESERVES**

1995-04-06

Available and economically recoverable natural resources.

UF fossil fuel reserves  
 UF ore reserves  
 BT1 resources  
 NT1 coal reserves  
 NT1 strategic petroleum reserve  
 NT1 thorium reserves  
 NT1 uranium reserves  
 NT1 us naval oil shale reserves  
 NT1 us naval petroleum reserves  
 RT natural gas deposits  
 RT oil sand deposits  
 RT oil shale deposits  
 RT petroleum deposits  
 RT resource assessment  
 RT resource exploitation  
 RT stockpiles

**RESERVOIR ENGINEERING**

INIS: 1992-05-21; ETDE: 1977-03-04

BT1 engineering  
 RT reservoir rock  
 RT water reservoirs

**RESERVOIR FLUIDS**

INIS: 1992-04-08; ETDE: 1979-03-27

BT1 fluids

RT drawdown  
 RT interstitial water  
 RT natural gas fields  
 RT oil fields

**reservoir gas saturation**

INIS: 2000-01-05; ETDE: 1977-06-02

USE gas saturation

**RESERVOIR PRESSURE**

INIS: 2000-01-24; ETDE: 1978-09-11

UF datum pressure  
 UF formation pressure  
 UF initial reservoir pressure  
 UF sand pressure  
 UF shutin pressure  
 UF static reservoir pressure  
 NT1 well pressure  
 RT aquifers  
 RT geologic formations  
 RT geopressed systems  
 RT ground water

**RESERVOIR ROCK**

INIS: 1992-01-20; ETDE: 1976-03-11

Porous and permeable rock containing producible oil, gas, or geothermal fluid in its pore spaces.

RT carbonate rocks  
 RT formation damage  
 RT fractured reservoirs  
 RT gas saturation  
 RT heterogeneous effects  
 RT interstitial water  
 RT natural gas fields  
 RT oil fields  
 RT oil saturation  
 RT plugging  
 RT plugging agents  
 RT reservoir engineering  
 RT rocks  
 RT sand  
 RT source rocks  
 RT water influx  
 RT water saturation

**RESERVOIR TEMPERATURE**

INIS: 1992-07-21; ETDE: 1978-12-11

NT1 well temperature  
 RT temperature measurement

**reservoirs (water)**

USE water reservoirs

**resid**

INIS: 1992-04-02; ETDE: 1976-01-23

USE petroleum residues

**RESIDENCE HALF-TIME**

1982-12-08

UF residence time distribution  
 RT earth atmosphere  
 RT fallout  
 RT half-life  
 RT radioactivity

**residence time distribution**

2005-05-20

USE distribution functions  
 USE residence half-time

**residences**

2000-04-12

USE houses

**RESIDENTIAL BUILDINGS**

INIS: 1992-03-04; ETDE: 1978-04-06

UF dormitories  
 BT1 buildings  
 NT1 apartment buildings  
 NT1 houses  
 NT1 mobile homes

RT hotels  
RT households  
RT toilets

**RESIDENTIAL SECTOR**

INIS: 1993-03-24; ETDE: 1976-04-19

SF end use sector  
RT commercial sector  
RT communities  
RT households  
RT human populations  
RT mobile homes  
RT rural areas  
RT sectoral analysis  
RT service sector  
RT urban areas

**residual fuel oil**

INIS: 1992-05-21; ETDE: 1976-01-23

USE residual fuels

**RESIDUAL FUELS**

INIS: 1992-05-21; ETDE: 1976-01-23

UF bunker oils  
UF heavy fuels  
UF nos. 4, 5, and 6 fuel oils  
UF nos. 5 and 6 burner oils  
UF residual fuel oil  
UF residuums  
\*BT1 fuel oils  
RT petroleum residues  
RT rose process

**residual heat removal**

2000-04-12

USE rhr systems

**residual-heat removal**

INIS: 1975-12-19; ETDE: 2002-05-03

USE after-heat removal

**RESIDUAL INTERACTIONS**

BT1 interactions

**residual oils**

INIS: 1992-04-02; ETDE: 1977-10-20

USE petroleum residues

**RESIDUAL PETROLEUM**

INIS: 1992-10-01; ETDE: 1976-07-07

Liquid petroleum remaining in the formation at the end of a specified production process.

\*BT1 petroleum

**RESIDUAL POWER**

ETDE: 1975-09-11

Radiation power released by decaying fission products in irradiated nuclear fuel after irradiation has ceased, e.g., after reactor shutdown.

\*BT1 nuclear power  
RT after-heat  
RT reactor shutdown

**RESIDUAL STRESSES**

BT1 stresses

**RESIDUES**

NT1 ashes  
NT2 fly ash  
NT1 gangue  
NT1 smokes  
NT2 tobacco smokes  
RT wastes

**residues (mathematical)**

USE integral calculus  
USE singularity

**residues (radioactive)**

USE radioactive wastes

**residuums**

INIS: 1992-05-21; ETDE: 1976-01-23

USE residual fuels

**RESINITE**

INIS: 1997-06-19; ETDE: 1996-03-29

BT1 macerals

**RESINS**

\*BT1 organic polymers  
\*BT1 petrochemicals  
RT araldite  
RT bakelite  
RT desiccants  
RT epoxides  
RT ion exchange chromatography  
RT ion exchange materials  
RT matrix materials

**resist**

INIS: 2000-04-12; ETDE: 1980-03-29

SEE masking

**resistal**

2000-04-12

USE copper base alloys

**resistance heating**

INIS: 2000-04-12; ETDE: 1977-04-14

(Prior to March 1997 this was a valid ETDE descriptor.)

USE electric heating

**RESISTANCE WELDING**

1996-07-23

(Prior to March 1997 PROJECTION

WELDING was a valid ETDE descriptor.)

UF projection welding  
\*BT1 welding  
NT1 flash welding

**resistivity (electric)**

USE electric conductivity

**RESISTIVITY LOGGING**

INIS: 2000-06-27; ETDE: 1976-06-07

UF focussed logging  
UF guard logging  
UF laterologging  
\*BT1 electric logging  
RT electrical surveys  
RT induction logging

**RESISTIVITY SURVEYS**

INIS: 1999-03-03; ETDE: 1980-03-04

Surveys of ground resistivity.

(Until March 1999 this concept was indexed by ELECTRICAL SURVEYS.)

\*BT1 electrical surveys

**RESISTORS**

1996-07-08

(Prior to August 1996 RHEOSTATS was a valid ETDE descriptor.)

UF potentiometers (variable resistors)  
UF rheostats  
\*BT1 electrical equipment  
NT1 photoresistors  
NT1 semiconductor resistors  
RT conductor devices  
RT potentiometers  
RT thermistors  
RT voltage drop

**RESOLUTION**

NT1 energy resolution  
NT1 linear momentum resolution  
NT1 mass resolution  
NT1 spatial resolution  
NT1 time resolution  
RT accuracy  
RT comparative evaluations

RT electron microscopy  
RT errors  
RT particle discrimination  
RT performance  
RT sensitivity  
RT signal-to-noise ratio

**RESONANCE**

UF analog resonances (isobaric)

NT1 cyclotron resonance  
NT2 azbel-kaner resonance  
NT2 electron cyclotron-resonance  
NT2 ion cyclotron-resonance  
NT1 electric resonance  
NT2 paraelectric resonance  
NT1 fermi resonance  
NT1 giant resonance  
NT1 helicon resonance  
NT1 hybrid resonance  
NT1 intermediate resonance  
NT1 level mixing resonance  
NT1 magnetic resonance  
NT2 eldor  
NT2 electron spin resonance  
NT3 acoustic esr  
NT2 endor  
NT2 ferrimagnetic resonance  
NT2 ferromagnetic resonance  
NT2 nuclear magnetic resonance  
NT3 acoustic nmr  
NT3 td-nmr

NT1 nuclear quadrupole resonance  
RT bump-in-tail instability  
RT giant resonance model  
RT harmonics  
RT mode conversion  
RT multilevel analysis  
RT reich-moore formula  
RT resonance fluorescence  
RT resonance integrals  
RT resonance particles  
RT resonance scattering  
RT resonators  
RT synchronization  
RT tuning

**RESONANCE ABSORPTION**

\*BT1 absorption

**resonance cavities**

USE cavity resonators

**RESONANCE ESCAPE****PROBABILITY**

RT dancoff correction  
RT multiplication factors

**RESONANCE FLUORESCENCE**

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 fluorescence  
RT moessbauer effect  
RT resonance  
RT resonance scattering

**RESONANCE INTEGRALS**

BT1 integrals  
RT resonance

**RESONANCE IONIZATION MASS SPECTROSCOPY**

INIS: 1986-03-04; ETDE: 1985-04-24

SF rims  
\*BT1 mass spectroscopy  
RT icp mass spectroscopy

**RESONANCE NEUTRONS**

1996-01-24

\*BT1 neutrons  
RT fission ratio  
RT intermediate neutrons  
RT intermediate reactors

**RESONANCE PARTICLES**

- \*BT1 hadrons
- NT1 exotic resonances
- RT dalitz plot
- RT deck effect
- RT prism plot
- RT resonance

**RESONANCE SCATTERING**

- \*BT1 inelastic scattering
- RT acoustic esr
- RT acoustic nmr
- RT deep inelastic scattering
- RT resonance
- RT resonance fluorescence

**resonance states**

- USE energy levels

**resonance test reactor savannah**

- USE rtr reactor

**RESONATING-GROUP METHOD**

- \*BT1 variational methods
- RT nuclear reaction kinetics
- RT nucleon-nucleon potential
- RT scattering
- RT two-body problem

**RESONATORS**

*INIS: 1999-07-05; ETDE: 1979-02-27*

- \*BT1 electronic equipment
- NT1 cavity resonators
- NT2 superconducting cavity resonators
- RT microwave equipment
- RT oscillators
- RT pulse techniques
- RT resonance
- RT rf systems

**resorcin**

- USE resorcinol

**RESORCINOL**

- UF 1,3-dihydroxybenzene
- UF dihydroxybenzene-meta
- UF resorcin
- BT1 developers
- \*BT1 polyphenols

**RESOURCE ASSESSMENT**

*INIS: 1993-02-18; ETDE: 1977-11-09*

*Techniques to determine resource potential.*

- RT energy source development
- RT probabilistic estimation
- RT rangelands
- RT reserves

**RESOURCE CONSERVATION**

*INIS: 1982-12-03; ETDE: 1975-09-11*

- UF conservation (resource)
- UF conservation (resources)
- NT1 soil conservation
- RT energy conservation
- RT environmental protection
- RT interchangeability
- RT life cycle assessment
- RT recycling
- RT resource depletion
- RT resource recovery acts
- RT resources

**RESOURCE DEPLETION**

*INIS: 1995-04-06; ETDE: 1977-07-23*

- RT resource conservation
- RT resource exploitation
- RT resources
- RT severance tax
- RT sustainable development
- RT us depletion allowances

**RESOURCE DEVELOPMENT**

*INIS: 1992-03-12; ETDE: 1978-12-11*

- NT1 sustainable development
- RT economic development
- RT energy source development
- RT resources

**RESOURCE EXPLOITATION**

*INIS: 1995-04-07; ETDE: 1995-05-09*

- SF exploitation
- RT leasing
- RT mining
- RT petroleum industry
- RT reserves
- RT resource depletion
- RT sustainable development

**RESOURCE MANAGEMENT**

*INIS: 1992-04-13; ETDE: 1985-06-21*

- BT1 management
- RT energy management
- RT energy source development
- RT mineral resources
- RT property management
- RT resources
- RT sustainable development

**RESOURCE POTENTIAL**

*INIS: 1993-04-07; ETDE: 1978-06-14*

*Capability of resources for development.*

- RT energy source development
- RT exploration
- RT mineral resources
- RT resources

**RESOURCE RECOVERY ACTS**

*1992-06-04*

(Prior to February 1992 this was a valid ETDE descriptor.)

- UF us resource recovery acts
- BT1 laws
- RT energy conservation
- RT regulations
- RT resource conservation
- RT waste disposal acts

**RESOURCE RECOVERY****FACILITIES**

*INIS: 1992-07-09; ETDE: 1979-03-27*

- UF facilities (resource recovery)
- BT1 energy facilities
- \*BT1 waste processing plants
- RT energy recovery
- RT materials recovery
- RT refuse derived fuels

**RESOURCES**

*1978-04-21*

*The totality of the discovered and undiscovered quantities of a particular mineral or similar commodity.*

- SF renewable resources
- NT1 cultural resources
- NT1 geothermal resources
- NT1 land resources
- NT1 mineral resources
- NT2 coal deposits
- NT3 coal seams
- NT2 natural gas deposits
- NT3 natural gas fields
- NT4 gas condensate fields
- NT2 oil shale deposits
- NT3 us naval oil shale reserves
- NT2 petroleum deposits
- NT3 gas condensate fields
- NT3 oil fields
- NT3 us naval petroleum reserves
- NT2 uranium deposits
- NT3 blizzard deposit
- NT3 erzgebirge deposit
- NT3 jabiluka deposit

- NT3 koongarra deposit
- NT3 nabarlek deposit
- NT3 ranger deposit
- NT3 ranstad deposit
- NT3 roxby downs deposit
- NT3 south alligator deposit
- NT3 yeelirrie deposit

- NT1 nature reserves
- NT1 reserves
- NT2 coal reserves
- NT2 strategic petroleum reserve
- NT2 thorium reserves
- NT2 uranium reserves
- NT2 us naval oil shale reserves
- NT2 us naval petroleum reserves
- NT1 water resources
- RT raw materials
- RT resource conservation
- RT resource depletion
- RT resource development
- RT resource management
- RT resource potential

**RESOX PROCESS**

*INIS: 2000-04-12; ETDE: 1977-04-12*

*Proprietary process developed by Foster Wheeler using anthracite coal as catalyst and reducing agent to convert 90% of inlet sulfur dioxide to elemental sulfur.*

- \*BT1 desulfurization
- RT materials recovery
- RT sulfur
- RT waste processing

**respirable dusts**

*INIS: 2000-04-12; ETDE: 1977-06-24*

- USE dusts

**RESPIRATION**

- UF breathing
- RT air
- RT anoxia
- RT blood
- RT breath
- RT capillaries
- RT carboxyhemoglobin
- RT diaphragm
- RT hemoglobin
- RT inhalation
- RT krebs cycle
- RT lungs
- RT metabolism
- RT methemoglobin
- RT oxidoreductases
- RT physiology
- RT respirators
- RT respiratory system
- RT respiratory system diseases

**RESPIRATORS**

- UF masks
- UF respiratory equipment
- RT aerosols
- RT air
- RT breath
- RT dusts
- RT face
- RT filters
- RT inhalation
- RT life support systems
- RT protective clothing
- RT radiation protection
- RT respiration
- RT respiratory system

**respiratory equipment**

- USE respirators

**RESPIRATORY SYSTEM**

- NT1 bronchi
- NT1 gills



**NT1** larynx  
**NT1** lungs  
**NT1** nose  
**NT1** pharynx  
**NT1** trachea  
*RT* air  
*RT* breath  
*RT* chest  
*RT* inhalation  
*RT* lavage  
*RT* lung clearance  
*RT* organs  
*RT* respiration  
*RT* respirators  
*RT* respiratory system diseases

**RESPIRATORY SYSTEM DISEASES**

*UF* bronchogenic carcinoma  
**BT1** diseases  
**NT1** asthma  
**NT1** bronchitis  
**NT1** emphysema  
**NT1** pneumoconiosis  
**NT2** berylliosis  
**NT1** pneumonia  
**NT2** bronchopneumonia  
*RT* breath  
*RT* respiration  
*RT* respiratory system

**RESPIRATORY TRACT CELLS**

*INIS: 1978-11-24; ETDE: 1977-11-28*  
*UF* lung cells  
**\*BT1** somatic cells  
*RT* bronchi  
*RT* lungs

**RESPONSE FUNCTIONS**

*Describing the response of a system to external action.*  
**BT1** functions  
*RT* electronic circuits  
*RT* mathematical models  
*RT* measuring instruments  
*RT* mechanical structures  
*RT* parametric analysis  
*RT* sensitivity analysis  
*RT* structural models

**RESPONSE MATRIX METHOD**

**BT1** calculation methods  
**\*BT1** reactor kinetics equations  
*RT* criticality

**RESPONSE MODIFYING FACTORS**

*For biological effects.*  
*UF* oxygen effect (radiobiology)  
*UF* protective chemicals  
*SF* tumor necrosis factor  
**NT1** radioprotective substances  
**NT2** beta-aminoethyl isothiourrea  
**NT2** cystamine  
**NT2** cystaphos  
**NT2** cysteamine  
**NT2** dimercaprol  
**NT2** dtpa  
**NT2** gammaphos  
**NT2** glutathione  
**NT2** hydroxytryptophan  
**NT2** kallikrein  
**NT2** mercaptoethylguanidine  
**NT2** mercaptopropylamine  
**NT2** mexamine  
**NT2** mpg  
**NT2** penicillamine  
**NT2** serotonin  
**NT3** bufotenine  
**NT1** radiosensitizers  
**NT2** fudr  
**NT2** metronidazole  
**NT2** misonidazole

**NT2** nem  
**NT2** triacetoneamine-n-oxyl  
*RT* adrenalectomy  
*RT* biological effects  
*RT* biological recovery  
*RT* mitogens  
*RT* oxygen enhancement ratio  
*RT* radiation effects  
*RT* radiosensitivity

**REST MASS**

**BT1** mass  
*RT* special relativity theory

**RESTAURANTS**

*INIS: 2000-04-12; ETDE: 1978-07-05*  
*UF* cafeterias  
*UF* dining halls  
*RT* commercial buildings  
*RT* commercial sector  
*RT* food  
*RT* food industry  
*RT* small businesses

**restoration**

*USE* biological recovery

**RESTRAINTS**

*INIS: 1981-02-27; ETDE: 1975-07-29*  
*UF* pipe restraints  
**NT1** reactor core restraints  
*RT* damping  
*RT* fasteners  
*RT* pipe fittings  
*RT* pipes  
*RT* reactor cooling systems  
*RT* shock absorbers  
*RT* supports

**resuspension**

*INIS: 2000-04-12; ETDE: 1977-05-07*  
*USE* particle resuspension

**resuspension (particles)**

*INIS: 1981-02-27; ETDE: 2002-05-03*  
*USE* particle resuspension

**retail buyers**

*INIS: 2000-04-12; ETDE: 1979-05-09*  
*USE* retailers

**RETAIL PRICES**

*INIS: 1993-02-19; ETDE: 1979-06-06*  
 (From September 1979 until March 1996 CONSUMER PRICE INDEX was a valid ETDE descriptor.)  
*UF* consumer price index  
*UF* consumer prices  
**BT1** prices  
*RT* retailers  
*RT* wholesale prices

**retail sellers**

*INIS: 2000-04-12; ETDE: 1979-05-09*  
*USE* retailers

**RETAILERS**

*INIS: 1992-04-03; ETDE: 1979-05-09*  
*Persons or organizations engaged in the sale of commodities or goods in small quantities to ultimate consumers.*  
*UF* retail buyers  
*UF* retail sellers  
**BT1** marketers  
**NT1** gasoline service stations  
*RT* commercial sector  
*RT* competition  
*RT* economics  
*RT* industry  
*RT* market  
*RT* marketing  
*RT* prices

*RT* retail prices  
*RT* small businesses

**RETENTION**

*In living organisms.*  
*RT* animal tissues  
*RT* biological availability  
*RT* biological hot spots  
*RT* biological localization  
*RT* body  
*RT* compartments  
*RT* critical organs  
*RT* deposition  
*RT* edema  
*RT* excretion  
*RT* hot atom chemistry  
*RT* maximum permissible body burden  
*RT* organs  
*RT* radionuclide kinetics  
*RT* retention functions  
*RT* uptake  
*RT* whole-body counting

**RETENTION FUNCTIONS**

*UF* excretion functions  
**BT1** functions  
*RT* compartments  
*RT* radionuclide kinetics  
*RT* retention  
*RT* time dependence

**reticular cells**

*USE* reticuloendothelial system

**RETICULOCYTES**

**\*BT1** erythrocytes

**RETICULOENDOTHELIAL SYSTEM**

*UF* kupffer cells  
*UF* reticular cells  
**\*BT1** animal tissues  
*RT* bone marrow  
*RT* connective tissue  
*RT* immune system diseases  
*RT* liver  
*RT* lymph nodes  
*RT* lymphatic system  
*RT* macrophages  
*RT* phagocytosis  
*RT* spleen

**RETINA**

**\*BT1** eyes  
*RT* nervous system  
*RT* rhodopsin

**retinal pigment**

*INIS: 1986-03-04; ETDE: 2002-05-03*  
*USE* rhodopsin

**RETINOIC ACID**

*INIS: 2000-04-12; ETDE: 1982-05-24*  
**\*BT1** carboxylic acid esters  
*RT* vitamin a

**retinol**

*INIS: 2000-04-12; ETDE: 1982-05-24*  
*USE* vitamin a

**retorted shales**

*INIS: 1992-04-13; ETDE: 1979-07-18*  
*USE* spent shales

**RETORTING**

*1980-07-24*  
*The process of extracting a desirable substance from a naturally occurring deposit.*  
*SF* fushun process  
**\*BT1** decomposition  
**\*BT1** ore processing  
**NT1** in-situ retorting  
*RT* coking

RT destructive distillation  
 RT heating  
 RT hydrotorting process  
 RT hystort process  
 RT in-situ processing  
 RT lurgi-ruhrgas process  
 RT modified in-situ processes  
 RT ntu process  
 RT oil shales  
 RT process heat  
 RT pyrolysis  
 RT retorts  
 RT rope process  
 RT shell pellet heat exchanger retorting  
 RT t3 process

**RETORTS**

2000-07-11

UF *pumpherstons retort*  
 BT1 chemical reactors  
 \*BT1 distillation equipment  
 RT retorting

**RETREAT MINING**

INIS: 2000-04-12; ETDE: 1979-09-27

\*BT1 underground mining  
 RT coal mining

**retrieval systems**

INIS: 2000-04-12; ETDE: 1979-08-07

For retrieval of information, see

INFORMATION RETRIEVAL.

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE materials handling  
 SEE remote handling equipment  
 SEE waste retrieval

**RETROFITTING**

INIS: 1979-04-27; ETDE: 1975-11-11

UF *backfitting*  
 RT buildings  
 RT construction  
 RT licensing regulations  
 RT modifications  
 RT safety standards  
 RT solar repowering

**REUNION ISLAND**

2004-05-28

\*BT1 france  
 BT1 islands  
 RT indian ocean

**REVEGETATION**

1976-07-16

Process of providing a new vegetative cover for land previously stripped of vegetation.

RT deforestation  
 RT erosion control  
 RT ground cover  
 RT land reclamation  
 RT plants  
 RT preferred species  
 RT soil conservation

**REVERSE COMBUSTION**

INIS: 2000-04-12; ETDE: 1976-05-13

\*BT1 combustion  
 RT in-situ combustion

**REVERSE-FIELD PINCH**

INIS: 1975-12-19; ETDE: 1976-01-26

UF *trx-1*  
 BT1 pinch effect  
 RT artemis device  
 RT hbt devices  
 RT magnetic field reversal  
 RT magnetic reconnection  
 RT mst device  
 RT reversed-field mirrors  
 RT rfx device

RT stx devices  
 RT tpe-1rm15 device  
 RT zt-40 devices  
 RT zt-p devices

**reverse osmosis**

USE osmosis

**REVERSED-FIELD MIRRORS**

INIS: 1982-11-30; ETDE: 1991-10-29

UF *field-reversed mirror reactors*  
 UF *field-reversed mirrors*  
 \*BT1 magnetic mirrors  
 RT magnetic field reversal  
 RT reverse-field pinch

**REVERSED-FIELD PINCH DEVICES**

1994-03-15

\*BT1 toroidal pinch devices  
 NT1 artemis device  
 NT1 extrap-t2 device  
 NT1 hbt devices  
 NT1 mst device  
 NT1 rfx device  
 NT1 tpe-1rm15 device  
 NT1 tpe-rx device  
 NT1 zt-40 devices  
 NT1 zt-p devices  
 RT beta ratio  
 RT electric currents  
 RT magnetic field configurations  
 RT rotational transform  
 RT toroidal configuration

**REVERSED SHEAR**

INIS: 1999-07-26; ETDE: 1999-09-03

RT rotational transform  
 RT shear

**reversible turbines**

INIS: 2000-04-12; ETDE: 1980-01-24

USE pump turbines

**REVERTANTS**

INIS: 1978-11-24; ETDE: 1978-12-20

BT1 mutants  
 RT mutations

**REVIEWS**

Critical assessment of work and data usually accompanied by an extensive bibliography.

BT1 document types  
 RT research programs

**REWETTING**

INIS: 1975-08-22; ETDE: 1976-08-24

RT dryout  
 RT heat transfer  
 RT hot spots  
 RT surfaces

**rexco process**

2000-04-12

Process for manufacturing smokeless fuel.

SEE coal

**REYNOLDS NUMBER**

BT1 dimensionless numbers  
 NT1 magnetic reynolds number  
 RT boundary layers  
 RT friction factor  
 RT turbulent flow  
 RT viscous flow

**rez lr-0 reactor**

INIS: 1998-07-07; ETDE: 1995-01-03

USE lr-0 reactor

**rez tr-0 reactor**

USE tr-0 reactor

**rezistal**

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE chromium alloys  
 USE iron base alloys  
 USE nickel alloys

**RF SYSTEMS**

UF *radiofrequency systems*  
 RT cavity resonators  
 RT cyclic accelerators  
 RT gyrocons  
 RT klystrons  
 RT lasertrons  
 RT magnetrons  
 RT microwave power transmission  
 RT power supplies  
 RT radio equipment  
 RT radiowave radiation  
 RT resonators  
 RT squid devices  
 RT superconducting cavity resonators  
 RT travelling wave tubes  
 RT tuning

**RFLPS**

INIS: 2000-01-11; ETDE: 1987-10-22

Restriction Fragment Length Polymorphisms.

RT chromosomes  
 RT endonucleases  
 RT genes  
 RT genetic mapping  
 RT genetic variability  
 RT human chromosomes

**rfq (accelerators)**

INIS: 1991-10-09; ETDE: 2002-05-03

USE quadrupole linacs

**RFX DEVICE**

1994-03-15

Reversed-Field Experiment at the University of Padua, Italy.

\*BT1 reversed-field pinch devices  
 RT reverse-field pinch

**RG-1M REACTOR**UF *norilsk research reactor rg-1m*

\*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**RHABDOMYOSARCOMAS**

\*BT1 myosarcomas

**rhagoletis cerasi**

INIS: 1996-07-23; ETDE: 1976-01-26

(Until July 1996 this was a valid descriptor.)

USE fruit flies

**RHEINBERG AKW1 REACTOR**

Gransee, Rheinsberg, Federal Republic of Germany.

UF *akw1 rheinsberg reactor*  
 UF *atomkraftwerk rheinsberg akw1 reaktor*  
 \*BT1 pwr type reactors

**RHENATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

BT1 oxygen compounds  
 \*BT1 rhenium compounds  
 RT rhenium oxides

**RHENIUM**

\*BT1 refractory metals

\*BT1 transition elements

### RHENIUM 159

2007-07-10

\*BT1 intermediate mass nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 proton decay radioisotopes  
\*BT1 rhenium isotopes

### RHENIUM 160

2007-07-10

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 proton decay radioisotopes  
\*BT1 rhenium isotopes

### RHENIUM 161

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rhenium isotopes

### RHENIUM 162

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rhenium isotopes

### RHENIUM 163

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rhenium isotopes

### RHENIUM 164

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rhenium isotopes

### RHENIUM 165

INIS: 1983-09-01; ETDE: 1983-07-07

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 rhenium isotopes  
\*BT1 seconds living radioisotopes

### RHENIUM 166

INIS: 1979-04-27; ETDE: 1979-05-25

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 rhenium isotopes  
\*BT1 seconds living radioisotopes

### RHENIUM 167

INIS: 1979-04-27; ETDE: 1979-05-25

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 odd-even nuclei  
\*BT1 rhenium isotopes  
\*BT1 seconds living radioisotopes

### RHENIUM 168

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 rhenium isotopes  
\*BT1 seconds living radioisotopes

### RHENIUM 169

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 odd-even nuclei  
\*BT1 rhenium isotopes  
\*BT1 seconds living radioisotopes

### RHENIUM 170

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 rhenium isotopes  
\*BT1 seconds living radioisotopes

### RHENIUM 171

INIS: 1987-09-22; ETDE: 1987-10-02

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 rhenium isotopes  
\*BT1 seconds living radioisotopes

### RHENIUM 172

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 rhenium isotopes  
\*BT1 seconds living radioisotopes

### RHENIUM 173

\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rhenium isotopes

### RHENIUM 174

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rhenium isotopes

### RHENIUM 175

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rhenium isotopes

### RHENIUM 176

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rhenium isotopes

### RHENIUM 177

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rhenium isotopes

### RHENIUM 178

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rhenium isotopes

### RHENIUM 179

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rhenium isotopes

### RHENIUM 180

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rhenium isotopes

### RHENIUM 181

\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rhenium isotopes

### RHENIUM 182

\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rhenium isotopes

### RHENIUM 183

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rhenium isotopes

### RHENIUM 184

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-odd nuclei  
\*BT1 rhenium isotopes

### RHENIUM 184 TARGET

INIS: 1979-09-18; ETDE: 1977-04-12

BT1 targets

### RHENIUM 185

\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 rhenium isotopes  
\*BT1 stable isotopes

### RHENIUM 185 TARGET

ETDE: 1976-07-09

BT1 targets

### RHENIUM 186

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 odd-odd nuclei  
\*BT1 rhenium isotopes  
\*BT1 years living radioisotopes

**RHENIUM 186 TARGET***ETDE: 1976-07-09*

BT1 targets

**RHENIUM 187**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 stable isotopes  
 \*BT1 years living radioisotopes

**RHENIUM 187 TARGET***ETDE: 1976-07-09*

BT1 targets

**RHENIUM 188**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 189**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 190**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 191**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 192**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 193***2007-07-10*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 194***2007-07-10*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes

**RHENIUM ADDITIONS***Alloys containing not more than 1% Re are listed here.*

\*BT1 rhenium alloys

**RHENIUM ALLOYS***1995-02-27**Alloys containing more than 1% Re.*

\*BT1 transition element alloys

NT1 rhenium additions

NT1 rhenium base alloys

**RHENIUM BASE ALLOYS**

\*BT1 rhenium alloys

**RHENIUM BORIDES**

\*BT1 borides  
 \*BT1 rhenium compounds

**RHENIUM BROMIDES**

\*BT1 bromides  
 \*BT1 rhenium halides

**RHENIUM CARBIDES**

\*BT1 carbides  
 \*BT1 rhenium compounds

**RHENIUM CARBONATES***2000-04-12*

\*BT1 carbonates  
 \*BT1 rhenium compounds

**RHENIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 rhenium halides

**RHENIUM COMPLEXES**

\*BT1 transition element complexes

**RHENIUM COMPOUNDS***1997-06-19*

BT1 refractory metal compounds  
 BT1 transition element compounds  
 NT1 perrhenates  
 NT1 rhenates  
 NT1 rhenium borides  
 NT1 rhenium carbides  
 NT1 rhenium carbonates  
 NT1 rhenium halides  
 NT2 rhenium bromides  
 NT2 rhenium chlorides  
 NT2 rhenium fluorides  
 NT2 rhenium iodides  
 NT1 rhenium hydrides  
 NT1 rhenium hydroxides  
 NT1 rhenium nitrides  
 NT1 rhenium oxides  
 NT1 rhenium selenides  
 NT1 rhenium silicides  
 NT1 rhenium sulfates  
 NT1 rhenium sulfides  
 NT1 rhenium tellurides

**RHENIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 rhenium halides

**RHENIUM HALIDES***INIS: 1991-09-16; ETDE: 1975-07-29*

\*BT1 halides  
 \*BT1 rhenium compounds  
 NT1 rhenium bromides  
 NT1 rhenium chlorides  
 NT1 rhenium fluorides  
 NT1 rhenium iodides

**RHENIUM HYDRIDES***1979-11-02*

\*BT1 hydrides  
 \*BT1 rhenium compounds

**RHENIUM HYDROXIDES***1996-07-08**(From June 1996 to November 2007**RHENIUM COMPOUNDS + HYDROXIDES was used for this concept.)*

\*BT1 hydroxides  
 \*BT1 rhenium compounds

**RHENIUM IODIDES***INIS: 1979-01-18; ETDE: 1976-12-15*

\*BT1 iodides

\*BT1 rhenium halides

**RHENIUM IONS**

\*BT1 ions

**RHENIUM ISOTOPES***1999-07-16*

BT1 isotopes  
 NT1 rhenium 159  
 NT1 rhenium 160  
 NT1 rhenium 161  
 NT1 rhenium 162  
 NT1 rhenium 163  
 NT1 rhenium 164  
 NT1 rhenium 165  
 NT1 rhenium 166  
 NT1 rhenium 167  
 NT1 rhenium 168  
 NT1 rhenium 169  
 NT1 rhenium 170  
 NT1 rhenium 171  
 NT1 rhenium 172  
 NT1 rhenium 173  
 NT1 rhenium 174  
 NT1 rhenium 175  
 NT1 rhenium 176  
 NT1 rhenium 177  
 NT1 rhenium 178  
 NT1 rhenium 179  
 NT1 rhenium 180  
 NT1 rhenium 181  
 NT1 rhenium 182  
 NT1 rhenium 183  
 NT1 rhenium 184  
 NT1 rhenium 185  
 NT1 rhenium 186  
 NT1 rhenium 187  
 NT1 rhenium 188  
 NT1 rhenium 189  
 NT1 rhenium 190  
 NT1 rhenium 191  
 NT1 rhenium 192  
 NT1 rhenium 193  
 NT1 rhenium 194

**RHENIUM NITRIDES***1977-06-13*

\*BT1 nitrides  
 \*BT1 rhenium compounds

***rhenium ores****1996-07-23**(Until July 1996 this was a valid descriptor.)*

USE ores

**RHENIUM OXIDES**

\*BT1 oxides  
 \*BT1 rhenium compounds  
 RT perrhenates  
 RT rhenates

**RHENIUM SELENIDES***1991-09-16*

\*BT1 rhenium compounds  
 \*BT1 selenides

**RHENIUM SILICIDES***INIS: 1978-11-24; ETDE: 1978-12-20*

\*BT1 rhenium compounds  
 \*BT1 silicides

**RHENIUM SULFATES***INIS: 1977-03-01; ETDE: 1977-04-12*

\*BT1 rhenium compounds  
 \*BT1 sulfates

**RHENIUM SULFIDES**

\*BT1 rhenium compounds  
 \*BT1 sulfides

**RHENIUM TELLURIDES**

2000-04-12

- \*BT1 rhenium compounds
- \*BT1 tellurides

**RHEOLOGY**

INIS: 1982-10-29; ETDE: 1975-09-11

Study of deformation and flow of matter.

- RT deformation
- RT fluid flow
- RT matter
- RT mechanical properties
- RT thixotropy
- RT viscosity

**rheostats**

1996-07-08

(Until June 1996 this was a valid descriptor.)

- USE resistors

**rhesus monkeys**

- USE macacus

**RHEUMATIC DISEASES**

1999-09-20

- UF arthritis
- UF rheumatoid diseases
- NT1 spondylitis
- RT bone joints
- RT bone tissues
- RT skeletal diseases

**rheumatoid diseases**

- USE rheumatic diseases

**rhic (brookhaven)**

INIS: 1986-05-23; ETDE: 2002-05-11

- USE brookhaven rhic

**RHINE RIVER**

- \*BT1 rivers
- RT austria
- RT federal republic of germany
- RT france
- RT netherlands
- RT switzerland

**RHIZOBIUM**

INIS: 1992-05-05; ETDE: 1986-01-24

- \*BT1 bacteria
- RT leguminosae
- RT nitrogen fixation
- RT symbiosis

**rhizopterin**

- USE folic acid

**RHIZOPUS**

- \*BT1 eumycota

**rho-1250 mesons**

INIS: 1995-08-07; ETDE: 1988-01-28

(From December 1987 until July 1995 this was a valid term.)

- USE rho-1450 mesons

**rho-1250 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

- USE rho-1450 mesons

**RHO-1450 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by RHO-1250 RESONANCES; from then until July 1995 it was indexed by RHO-1250 MESONS.)

- UF rho-1250 mesons
- UF rho-1250 resonances
- \*BT1 vector mesons

**rho-1500 resonances**

INIS: 1988-03-08; ETDE: 1975-10-28

(Prior to December 1987 this was a valid descriptor.)

- USE mesons

**rho-1600 mesons**

INIS: 1995-08-07; ETDE: 1988-02-01

(From December 1987 until July 1995 this was a valid term.)

- USE rho-1700 mesons

**rho-1600 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

- USE rho-1700 mesons

**rho-1670 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

- USE rho3-1690 mesons

**RHO-1700 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by RHO-1600 RESONANCES; from then until July 1995 it was indexed by RHO-1600 MESONS.)

- UF rho-1600 mesons
- UF rho-1600 resonances
- UF rho-prime resonances
- \*BT1 vector mesons

**rho-1700 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

- USE mesons

**RHO-2150 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

- \*BT1 vector mesons

**rho-765 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

- USE rho-770 mesons

**RHO-770 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-25

(Prior to December 1987 this concept was indexed by RHO-765 RESONANCES.)

- UF rho-765 resonances
- \*BT1 vector mesons

**rho-prime resonances**

- USE rho-1700 mesons

**RHO3-1690 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by RHO-1670 RESONANCES.)

- UF g resonances
- UF rho-1670 resonances
- \*BT1 tensor mesons

**RHO3-2250 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by T-2200 RESONANCES.)

- UF t-2200 resonances
- \*BT1 tensor mesons

**RHO5-2350 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

- \*BT1 tensor mesons

**RHODAMINES**

- \*BT1 amines

- BT1 dyes
- \*BT1 heterocyclic acids
- \*BT1 organic oxygen compounds
- BT1 reagents
- RT phthalic acid

**rhodanates**

- USE thiocyanates

**rhodanides**

- USE thiocyanates

**RHODE ISLAND**

- \*BT1 usa
- RT us east coast

**rhode island nuclear science center reactor**

- USE rinsc reactor

**rhodesia (northern)**

- USE zambia

**rhodesia (southern)**

- USE southern rhodesia

**RHODIUM**

- \*BT1 platinum metals
- \*BT1 refractory metals

**RHODIUM 100**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 101**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes
- \*BT1 years living radioisotopes

**RHODIUM 102**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 103**

- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes
- \*BT1 stable isotopes

**RHODIUM 103 TARGET**

ETDE: 1976-07-09

- BT1 targets

**RHODIUM 104**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 105**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 106**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 107**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 108**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 109**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 110**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 111**

*INIS: 1979-01-18; ETDE: 1979-02-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 112**

*1985-01-17*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 113**

*INIS: 1988-11-16; ETDE: 1988-12-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 114**

*INIS: 1988-06-22; ETDE: 1988-07-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 115**

*INIS: 1988-11-16; ETDE: 1988-12-02*

- \*BT1 beta-minus decay radioisotopes

- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 116**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 117**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 118**

*2000-12-28*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 119**

*2007-11-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 120**

*2007-11-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 121**

*2007-11-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 122**

*2007-11-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 89**

*2006-10-11*

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 90**

*2004-12-20*

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 91**

*2004-11-30*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 92**

*1999-03-23*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 93**

*2004-11-30*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 94**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 95**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 96**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 96 TARGET**

*INIS: 1975-11-27; ETDE: 1976-07-12*

- BT1 targets

**RHODIUM 97**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 98**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 99**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM ADDITIONS**

*Alloys containing not more than 1% Rh are listed here.*

\*BT1 rhodium alloys

**RHODIUM ALLOYS**

*Alloys containing more than 1% Rh.*

\*BT1 platinum metal alloys

NT1 rhodium additions

NT1 rhodium base alloys

**RHODIUM BASE ALLOYS**

\*BT1 rhodium alloys

**RHODIUM BORIDES**

1977-09-06

\*BT1 borides

\*BT1 rhodium compounds

**RHODIUM BROMIDES**

INIS: 1976-02-05; ETDE: 1975-11-26

\*BT1 bromides

\*BT1 rhodium compounds

**RHODIUM CARBIDES**

\*BT1 carbides

\*BT1 rhodium compounds

**RHODIUM CHLORIDES**

\*BT1 chlorides

\*BT1 rhodium compounds

**RHODIUM COMPLEXES**

\*BT1 transition element complexes

**RHODIUM COMPOUNDS**

1997-06-19

BT1 refractory metal compounds

BT1 transition element compounds

NT1 rhodium borides

NT1 rhodium bromides

NT1 rhodium carbides

NT1 rhodium chlorides

NT1 rhodium fluorides

NT1 rhodium hydrides

NT1 rhodium hydroxides

NT1 rhodium nitrides

NT1 rhodium oxides

NT1 rhodium phosphides

NT1 rhodium selenides

NT1 rhodium silicides

NT1 rhodium sulfides

NT1 rhodium tellurides

**RHODIUM FLUORIDES**

\*BT1 fluorides

\*BT1 rhodium compounds

**RHODIUM HYDRIDES**

1978-11-24

\*BT1 hydrides

\*BT1 rhodium compounds

**RHODIUM HYDROXIDES**

INIS: 1996-07-23; ETDE: 1975-11-26

(From July 1996 to November 2007

RHODIUM COMPOUNDS +

HYDROXIDES was used for this concept.)

\*BT1 hydroxides

\*BT1 rhodium compounds

**RHODIUM IONS**

\*BT1 ions

**RHODIUM ISOTOPES**

1999-07-16

BT1 isotopes

NT1 rhodium 100

NT1 rhodium 101

NT1 rhodium 102

NT1 rhodium 103

NT1 rhodium 104

NT1 rhodium 105

NT1 rhodium 106

NT1 rhodium 107

NT1 rhodium 108

NT1 rhodium 109

NT1 rhodium 110

NT1 rhodium 111

NT1 rhodium 112

NT1 rhodium 113

NT1 rhodium 114

NT1 rhodium 115

NT1 rhodium 116

NT1 rhodium 117

NT1 rhodium 118

NT1 rhodium 119

NT1 rhodium 120

NT1 rhodium 121

NT1 rhodium 122

NT1 rhodium 89

NT1 rhodium 90

NT1 rhodium 91

NT1 rhodium 92

NT1 rhodium 93

NT1 rhodium 94

NT1 rhodium 95

NT1 rhodium 96

NT1 rhodium 97

NT1 rhodium 98

NT1 rhodium 99

**RHODIUM NITRIDES**

INIS: 2000-04-12; ETDE: 1975-12-16

(From January 1993 to November 2007

RHODIUM COMPOUNDS + NITRIDES was

used for this concept.)

\*BT1 nitrides

\*BT1 rhodium compounds

**RHODIUM OXIDES**

\*BT1 oxides

\*BT1 rhodium compounds

**RHODIUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1976-07-07

\*BT1 phosphides

\*BT1 rhodium compounds

**RHODIUM SELENIDES**

INIS: 2000-04-12; ETDE: 1976-03-22

\*BT1 rhodium compounds

\*BT1 selenides

**RHODIUM SILICIDES**

INIS: 1987-08-27; ETDE: 1985-07-18

\*BT1 rhodium compounds

\*BT1 silicides

**RHODIUM SULFIDES**

INIS: 1991-09-16; ETDE: 1975-11-11

\*BT1 rhodium compounds

\*BT1 sulfides

**RHODIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1976-07-07

\*BT1 rhodium compounds

\*BT1 tellurides

**RHODIZONIC ACID**

\*BT1 hydroxy compounds

\*BT1 quinones

BT1 reagents

RT organic acids

**RHODOCOCCUS**

INIS: 2000-04-12; ETDE: 1992-11-20

\*BT1 sulfur-oxidizing bacteria

RT coal preparation

RT desulfurization

**RHODOPHYCOTA**

INIS: 1991-12-13; ETDE: 1988-12-20

\*BT1 algae

NT1 porphyra

**RHODOPSEUDOMONAS**

\*BT1 photosynthetic bacteria

**RHODOPSIN**

INIS: 1986-03-04; ETDE: 1983-09-15

*A brilliant red photosensitive pigment.*

UF retinal pigment

UF visual purple

BT1 pigments

\*BT1 proteins

RT retina

**RHODOSPIRILLUM**

\*BT1 photosynthetic bacteria

***rhombohedral lattices***

USE trigonal lattices

**RHONE RIVER**

\*BT1 rivers

RT france

RT switzerland

***rhr***

INIS: 1975-12-19; ETDE: 2002-05-11

*Residual heat removal.*

USE after-heat removal

**RHR SYSTEMS**

2000-04-12

UF residual heat removal

\*BT1 reactor cooling systems

RT after-heat removal

**RHYOLITES**

INIS: 1978-08-30; ETDE: 1975-11-11

*A group of extrusive igneous rocks generally porphyritic and containing small phenocrysts of quartz and alkali feldspar set in a glassy or cryptocrystalline ground mass.*

(From April 1975 till March 1997 PUMICE was a valid ETDE descriptor.)

SF pumice

\*BT1 volcanic rocks

RT feldspars

RT granites

RT perlite

RT silicon oxides

**RHYTHMICITY**

RT estrous cycle

RT menstrual cycle

***ria (radioimmunoassay)***

INIS: 1984-04-04; ETDE: 2002-05-11

USE radioimmunoassay

***ria (reactor accidents)***

INIS: 1984-04-04; ETDE: 2002-05-11

*Reactivity Initiated Accidents.*

SEE reactor accidents

**RIBBON-TO-RIBBON METHOD**

INIS: 2000-04-12; ETDE: 1980-02-11

*A float-zone crystal growth method where the polycrystalline ribbon is fed into a preheated region, melted, and recrystallized.*

UF rtr method

BT1 crystal growth methods

RT crystal growth

RT ribbon-to-sheet method

RT sheets

RT zone melting

**RIBBON-TO-SHEET METHOD**

INIS: 2000-04-12; ETDE: 1981-07-18

BT1 crystal growth methods

RT ribbon-to-ribbon method

RT sheets

**RIBOFLAVIN**

UF vitamin b-2

\*BT1 vitamin b group

*RT* ribose

### **ribonuclease**

USE rna-ase

### **ribonucleic acid**

USE rna

### **RIBOSE**

\*BT1 aldehydes

\*BT1 pentoses

*RT* riboflavin

### **RIBOSIDES**

**NT1** nucleosides

**NT2** adenosine

**NT2** budr

**NT2** cytidine

**NT2** deoxycytidine

**NT2** deoxyuridine

**NT2** fudr

**NT2** guanosine

**NT2** inosine

**NT2** iododeoxyuridine

**NT2** thymidine

**NT2** uridine

*RT* deoxyribose

*RT* nucleic acids

*RT* pentoses

### **RIBOSOMAL RNA**

*INIS: 1990-04-19; ETDE: 1985-11-19*

*UF* r-rna

\*BT1 rna

*RT* nucleoli

*RT* ribosomes

### **RIBOSOMES**

*1999-04-20*

**BT1** cell constituents

**NT1** microsomes

*RT* codons

*RT* ribosomal rna

*RT* rna

*RT* subcellular distribution

### **RIBULOSE**

\*BT1 ketones

\*BT1 pentoses

### **RIBULOSE DIPHOSPHATE CARBOXYLASE**

*INIS: 2000-04-12; ETDE: 1985-10-25*

\*BT1 carboxy-lyases

*RT* carbon cycle

*RT* carbon dioxide fixation

*RT* chloroplasts

*RT* photosynthesis

### **RIC PROCESS**

*2000-04-12*

\*BT1 desulfurization

### **RICCATI EQUATION**

\*BT1 differential equations

### **RICCI TENSOR**

**BT1** tensors

*RT* riemann space

### **RICE**

*UF* oryza

\*BT1 cereals

### **RICE STEM BORERS**

\*BT1 moths

### **richardson-dushman equation**

USE richardson equation

### **RICHARDSON EQUATION**

*UF* richardson-dushman equation

**BT1** equations

*RT* thermionics

### **RICHARDSON NUMBER**

**BT1** dimensionless numbers

*RT* convection

*RT* shear

*RT* turbulent flow

*RT* two-phase flow

### **RICHLAND**

*INIS: 1999-03-03; ETDE: 1979-03-05*

**BT1** urban areas

\*BT1 washington

### **richland fffr reactor**

USE fffr reactor

### **richland npr reactor**

USE n-reactor

### **richland physical constants test**

**reactor**

*1993-11-09*

USE pctr reactor

### **richland power-plutonium production**

**reactor**

*INIS: 1993-11-09; ETDE: 2002-05-11*

USE n-reactor

### **ricinum communis**

USE castor

### **RICKETS**

*UF* rachitis

\*BT1 metabolic diseases

\*BT1 skeletal diseases

*RT* bone tissues

*RT* vitamin d

### **RICKETTSIAE**

**BT1** microorganisms

*RT* insects

*RT* rickettsial diseases

*RT* typhus

### **RICKETTSIAL DISEASES**

*INIS: 1982-12-08; ETDE: 1981-01-12*

\*BT1 infectious diseases

**NT1** typhus

*RT* host

*RT* rickettsiae

### **ridesharing**

*INIS: 2000-04-12; ETDE: 1980-08-25*

SEE carpooling

SEE vanpooling

### **riehl-schon model**

*2000-04-12*

*Photovoltaic and photoconductive effects in crystals.*

(Prior to February 1995, this was a valid ETDE descriptor.)

USE crystals

USE photovoltaic effect

### **riemann curvature tensor**

USE riemann space

### **RIEMANN FUNCTION**

**BT1** functions

*RT* differential equations

### **riemann geometry**

USE riemann space

### **riemann manifolds**

USE riemann space

### **riemann metric**

USE riemann space

### **RIEMANN SHEET**

*1997-08-20*

*UF* riemann surface

*RT* functions

### **RIEMANN SPACE**

*1997-08-20*

*UF* riemann curvature tensor

*UF* riemann geometry

*UF* riemann manifolds

*UF* riemann metric

*UF* riemann sphere

\*BT1 mathematical space

**NT1** euclidean space

*RT* curvilinear coordinates

*RT* ricci tensor

*RT* smooth manifolds

### **riemann sphere**

USE riemann space

### **riemann surface**

*1997-08-20*

USE riemann sheet

### **riemann waves**

USE shock waves

### **RIEN-1 REACTOR**

*Instituto de Energenharia Nuclear/Nuclebras,*

*Rio de Janeiro, Brazil.*

*UF* argonauta rien-1 reactor

*UF* argonauta rio reactor

*UF* instituto engenhoria nuclear rio reactor

\*BT1 argonaut type reactors

\*BT1 research reactors

\*BT1 training reactors

### **RIFT ZONES**

*INIS: 1992-06-16; ETDE: 1975-09-11*

(Until June 1992, this concept was indexed by GEOLOGIC FAULTS.)

*UF* zones (rift)

**BT1** geologic structures

*RT* geologic faults

*RT* rio grande rift

### **RIGHI-LEDUC EFFECT**

*RT* hall effect

*RT* heat transfer

*RT* magnetic fields

*RT* thermal conductivity

### **RIGHTS-OF-WAY**

*INIS: 1993-06-04; ETDE: 1979-03-29*

*RT* eminent domain

*RT* land use

*RT* legal aspects

*RT* pipelines

*RT* power transmission lines

### **riken linac**

*INIS: 1986-05-23; ETDE: 2002-05-11*

USE rilac

### **riken ssc**

*INIS: 1983-10-14; ETDE: 1983-11-09*

USE ipcr cyclotron

### **rikkyo university triga-mk-2 reactor**

*INIS: 1993-11-09; ETDE: 2002-05-11*

USE triga-2-rikkyo reactor

### **rikkyo university triga-mk-ii reactor**

*2000-04-12*

USE triga-2-rikkyo reactor



**RILAC**

INIS: 1986-05-23; ETDE: 1986-11-18  
*Frequency-tunable heavy ion linac at Institute of Physical and Chemical Research, Saitama, Japan.*

UF inst phys chem res rilac

UF ipcr linac

UF riken linac

UF saitama tunable heavy ion linac

\*BT1 heavy ion accelerators

\*BT1 linear accelerators

**riley-morgan process**

INIS: 2000-04-12; ETDE: 1977-08-24  
*Redesign of the old Morgan fixed-bed gasifier for industrial plant gas supply.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**rims**

INIS: 2000-04-12; ETDE: 1985-04-24

SEE resonance ionization mass spectroscopy

**rinderpest**

INIS: 1991-09-19; ETDE: 2002-05-11

USE viral diseases

**RING CHROMOSOMES**

BT1 chromosomes

**RING CURRENTS**

\*BT1 electric currents

RT electrojets

**RING LASERS**

INIS: 1992-08-18; ETDE: 1982-06-07

BT1 lasers

**ring oven method**

2000-04-12

*Concentration of solutes from a single drop in concentric rings on a disc of filter paper for the qualitative detection of elements.*

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE chemical analysis

**RINGHALS-1 REACTOR**

*Ringhals, Vaeröbacka, Sweden.*

\*BT1 bwr type reactors

**RINGHALS-2 REACTOR**

*Ringhals, Vaeröbacka, Sweden.*

\*BT1 pwr type reactors

**RINGHALS-3 REACTOR**

*Ringhals, Vaeröbacka, Sweden.*

\*BT1 pwr type reactors

**RINGHALS-4 REACTOR**

INIS: 1982-10-28; ETDE: 1982-11-30

\*BT1 pwr type reactors

**ringotron**

USE electron-ring accelerators

**RINGS**

RT configuration

RT shape

RT tori

**rings (storage)**

USE storage rings

**RINSC REACTOR**

*Rhode Island Atomic Energy Commission, Rhode Island Nuclear Science Center, Narragansett, Rhode Island, USA.*

UF rhode island nuclear science center reactor

\*BT1 pool type reactors

\*BT1 research reactors

**RIO BLANCO EVENT**

BT1 plowshare project

\*BT1 toggle operation

RT natural gas

**RIO BLANCO OIL SHALE PROJECT**

INIS: 2000-04-12; ETDE: 1976-03-11

UF tract c-a prototype oil shale project

RT colorado

RT oil shales

**RIO DECLARATION**

2000-01-03

*Rio Declaration on Environment and Development.*

\*BT1 multilateral agreements

RT climatic change

RT emissions tax

RT emissions trading

RT environmental impacts

RT environmental policy

RT environmental protection

RT greenhouse effect

**RIO GRANDE RIFT**

INIS: 1992-06-16; ETDE: 1976-08-24

RT colorado

RT new mexico

RT rift zones

**RIO GRANDE RIVER**

INIS: 1992-06-04; ETDE: 1980-09-04

\*BT1 rivers

RT colorado

RT mexico

RT new mexico

RT texas

**RIOMETERS**

BT1 measuring instruments

**RIPENING**

RT age dependence

RT growth

RT life cycle

RT physiology

**risa**

USE albumins

USE organic iodine compounds

**RISE**

2000-04-12

*Rise is a modified in-situ method of processing oil shale in which 20% of the mined shale is removed for retorting on the surface, the remainder is retorted in place making use of hot gas generated continuously from combustion of a portion of the oil shale, using an air stream. Rubble in-situ extraction.*

BT1 modified in-situ processes

RT in-situ retorting

RT oil shales

**rise time**

USE pulse rise time

**riser cracking**

INIS: 2000-04-12; ETDE: 1976-10-13

USE coal liquefaction

**rishon model**

INIS: 2000-04-12; ETDE: 1984-10-10

(Prior to January 1995, this was a valid ETDE descriptor.)

USE composite models

**risk analysis**

INIS: 1985-07-19; ETDE: 1978-04-27

(Prior to August 1985 this was a valid descriptor.)

USE risk assessment

**RISK ASSESSMENT**

INIS: 1985-07-19; ETDE: 1977-09-19

(Prior to August 1985 RISK ANALYSIS was used.)

UF deterministic safety assessment

UF probabilistic safety assessment

UF risk analysis

RT alara

RT deterministic estimation

RT energy source development

RT fuel cycle

RT fuel reprocessing plants

RT hazards

RT licensing regulations

RT nuclear power plants

RT probabilistic estimation

RT probability

RT radioactive waste management

RT reliability

RT safety analysis

RT safety margins

RT seismicity

RT source terms

**risks**

USE hazards

**RISOE NATIONAL LABORATORY**

INIS: 1978-04-21; ETDE: 1978-07-06

(Prior to 1978 known as RISOE RESEARCH ESTABLISHMENT, and documents written before that date should be so indexed.)

\*BT1 danish organizations

NT1 risoe research establishment

**RISOE RESEARCH****ESTABLISHMENT**

INIS: 1977-03-14; ETDE: 1977-06-03

*Name changed in early 1978 to RISOE NATIONAL LABORATORY, and documents written after that date should be so indexed.*

UF research establishment risoe

\*BT1 risoe national laboratory

**RITAC DOSEMETERS**

*Passive solid-state dosimeters based on Radiation Induced Thermally Activated Current.*

\*BT1 dosimeters

RT ritad dosimeters

**RITAD DOSEMETERS**

*Integral solid-state dosimeters based on Radiation Induced Thermally Activated Depolarization.*

\*BT1 dosimeters

RT dielectric materials

RT ritac dosimeters

**ritchie-eldridge theory**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

SEE perturbation theory

**RITMO REACTOR**

*National Nuclear Energy Committee, Rome, Italy.*

UF rc-4 reactor casaccia

UF reattore casaccia-4

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 zero power reactors

**RITZ METHOD**

- UF rayleigh-ritz method  
 UF ritz-rayleigh method  
 UF ritz variation method  
 BT1 calculation methods  
 RT variational methods

**ritz-rayleigh method**

- USE ritz method

**ritz variation method**

- USE ritz method

**RIVER BEND-1 REACTOR**

Entergy Operations, Inc., St. Francisville, Louisiana, USA.

- \*BT1 bwr type reactors

**RIVER BEND-2 REACTOR**

Gulf States Utilities Co., St. Francisville, Louisiana, USA. Canceled in 1984 after construction began (1975).

- \*BT1 bwr type reactors

**RIVER DELTAS**

INIS: 1992-06-04; ETDE: 1983-08-25

- BT1 coastal regions  
 RT rivers  
 RT sediments  
 RT shores  
 RT wetlands

**RIVERS**

1997-06-19

Bodies of flowing water, generally wide, contained within channels.

- UF alaska river  
 UF crystal river  
 UF scioto river  
 BT1 surface waters  
 NT1 allegheny river  
 NT1 altamaha river  
 NT1 amazon river  
 NT1 arkansas river  
 NT1 au sable river  
 NT1 blind river  
 NT1 brahmaputra river  
 NT1 brazos river  
 NT1 cape fear river  
 NT1 chattahoochee river  
 NT1 clinch river  
 NT1 colorado river  
 NT1 columbia river  
 NT1 connecticut river  
 NT1 cumberland river  
 NT1 danube river  
 NT1 delaware river  
 NT1 detroit river  
 NT1 dneiper river  
 NT1 dudvah river  
 NT1 fraser river  
 NT1 ganga river  
 NT1 grand river  
 NT1 gunnison river  
 NT1 hron river  
 NT1 hudson river  
 NT1 james river  
 NT1 kennebec river  
 NT1 lewis river  
 NT1 little tennessee river  
 NT1 menominee river  
 NT1 mississippi river  
 NT1 missouri river  
 NT1 mohawk river  
 NT1 nelson river  
 NT1 niagara river  
 NT1 niger river  
 NT1 Nile river  
 NT1 north platte river  
 NT1 ohio river

- NT1 ottawa river  
 NT1 peace river  
 NT1 piceance creek  
 NT1 po river  
 NT1 potomac river  
 NT1 pripet river  
 NT1 rhine river  
 NT1 rhone river  
 NT1 rio grande river  
 NT1 saginaw river  
 NT1 saint clair river  
 NT1 saint john river  
 NT1 santee river  
 NT1 savannah river  
 NT1 severn river  
 NT1 skagit river  
 NT1 st lawrence river  
 NT1 streams  
 NT1 susquehanna river  
 NT1 techa river  
 NT1 tennessee river  
 NT1 thames river  
 NT1 tigris river  
 NT1 vah river  
 NT1 volga river  
 NT1 white river  
 NT1 yangtze river  
 NT1 yellow creek  
 NT1 yellow river  
 NT1 yukon river  
 RT drainage  
 RT estuaries  
 RT flood control  
 RT fresh water  
 RT hydrology  
 RT inland waterways  
 RT river deltas  
 RT water currents  
 RT watersheds

**riveting**

- USE fastening

**rivets**

- USE fasteners

**rjh reactor**

2005-02-11

- USE jules horowitz reactor

**rkr method**

- USE rydberg-klein-rees method

**rmprocess**

INIS: 2000-04-12; ETDE: 1976-07-07

Methanation process which catalytically converts mixtures of carbon oxides obtained from coal or naphtha gasification to methane at high temperatures without recycle.

(Prior to July 1993, this was a valid ETDE descriptor.)

- USE sng processes

**RNA**

1996-05-03

- UF ribonucleic acid  
 \*BT1 nucleic acids  
 NT1 messenger-rna  
 NT1 ribosomal rna  
 NT1 transfer rna  
 RT gene operons  
 RT in-situ hybridization  
 RT introns  
 RT microsomes  
 RT nucleoli  
 RT ribosomes  
 RT rna polymerases  
 RT splicing  
 RT strand breaks

**RNA-ASE**

1995-01-10

Code number 3.1.4.22 and 3.1.4.34.

- UF nuclease (ribonuclease)  
 UF ribonuclease  
 \*BT1 nucleases  
 RT rna processing

**RNA POLYMERASES**

INIS: 1995-01-10; ETDE: 1984-01-27

- \*BT1 polymerases  
 RT dna polymerases  
 RT messenger-rna  
 RT nucleoproteins  
 RT rna  
 RT rna processing  
 RT transcription  
 RT transcription factors

**RNA PROCESSING**

INIS: 1995-01-10; ETDE: 1987-12-17

Extensive modifications newly transcribed messenger-RNA's undergo before they are used as templates for protein synthesis. Also the editing of primary transcripts of ribosomal RNA and transfer RNA's.

- NT1 splicing  
 RT messenger-rna  
 RT nucleoproteins  
 RT rna-ase  
 RT rna polymerases

**mpp-rooppur reactor**

- USE rooppur reactor

**ro-07-0582**

INIS: 1981-08-06; ETDE: 1981-09-22

- USE misonidazole

**ROAD OILS**

INIS: 2000-04-12; ETDE: 1979-12-10

Oils or petroleum residues intended for cold application to road surfaces.

- \*BT1 oils  
 RT asphalts  
 RT petroleum  
 RT petroleum distillates  
 RT petroleum residues

**ROAD TESTS**

INIS: 2000-04-12; ETDE: 1977-05-07

- BT1 testing  
 RT automobiles  
 RT buses  
 RT trucks  
 RT vehicles

**ROAD TRANSPORT**

INIS: 1981-03-10; ETDE: 1981-04-17

- UF truck transport  
 \*BT1 land transport  
 RT motor vehicle accidents  
 RT roads  
 RT routing  
 RT vehicles

**ROADS**

1992-03-05

- UF highways  
 UF streets  
 RT bridges  
 RT carpooling  
 RT pavements  
 RT road transport  
 RT roadway-powered electric vehicles  
 RT transport  
 RT vanpooling

**ROADWAY-POWERED ELECTRIC VEHICLES**

INIS: 2000-04-12; ETDE: 1981-04-17

- \*BT1 electric-powered vehicles
- RT roads

**roadways (mines)**

INIS: 1993-03-15; ETDE: 1978-05-03  
USE mine roadways

**ROASTING**

- \*BT1 oxidation
- RT pyrometallurgy

**robert e. ginna-1 reactor**

USE ginna-1 reactor

**robert e. ginna-2 reactor**

USE ginna-2 reactor

**robinia pseudoacacia**

INIS: 2000-04-12; ETDE: 1986-04-29  
USE locust trees

**ROBINSON-2 REACTOR**

Carolina Power and Light Co., Hartsville, South Carolina, USA.

UF carolina power light robinson-2 reactor

UF hb robinson-2

- \*BT1 pwr type reactors

**ROBOTS**

INIS: 1984-04-04; ETDE: 1982-12-01

- BT1 equipment
- RT control equipment
- RT control systems
- RT materials handling equipment
- RT remote handling equipment

**ROCHE EQUIPOTENTIALS**

UF roche lobes

- BT1 potentials
- RT binary stars
- RT gravitational fields

**roche lobes**

USE roche equipotentials

**ROCHELLE SALT**

- \*BT1 potassium compounds
- \*BT1 sodium compounds
- \*BT1 tartrates
- RT tartaric acid

**ROCK BEDS**

INIS: 2000-04-12; ETDE: 1975-09-12

- RT cold storage
- RT heat storage
- RT sensible heat storage

**ROCK BURSTS**

INIS: 1992-01-21; ETDE: 1977-05-09

Explosive release of energy in rock strained beyond its elastic limit.

- UF gas bursts
- RT hazards
- RT mining
- RT precursor
- RT rock mechanics
- RT seismic events

**ROCK CAVERNS**

INIS: 1998-10-01; ETDE: 1979-04-11

- BT1 cavities
- RT caves
- RT rocks

**ROCK DRILLING**

UF drilling (rock)

- BT1 drilling
- \*BT1 materials drilling
- RT boreholes

- RT drills
- RT rotary drilling
- RT rotary drills
- RT spark drills
- RT subterrene penetrators
- RT well drilling

**ROCK DUSTING**

INIS: 2000-04-12; ETDE: 1977-10-20

Dusting of underground areas with powdered limestone or other nearly inert dusts to dilute coal dust to reduce explosion hazards.

- RT coal mines
- RT dusts

**ROCK FALLS**

INIS: 2000-07-20; ETDE: 1988-01-21

- RT rock mechanics
- RT soil mechanics
- RT strata movement

**ROCK-FLUID INTERACTIONS**

INIS: 1986-04-04; ETDE: 1975-11-11

- RT chemical reactions
- RT ground water
- RT hydrothermal alteration
- RT rocks
- RT waste-rock interactions

**rock intrusion**

INIS: 1985-07-23; ETDE: 2002-05-11

Process of emplacement of fluid material into pre-existing rock. Coordinate the descriptor below with other appropriate descriptor(s), e.g. POSITIONING, PETROGENESIS.

- USE plutonic rocks

**ROCK MECHANICS**

Application of principles of mechanics and geology to quantify the response of rock to environmental forces.

- BT1 mechanics
- RT dilatancy
- RT geology
- RT mechanical properties
- RT mining
- RT overburden
- RT rock bursts
- RT rock falls
- RT rocks
- RT soil mechanics
- RT strata control
- RT strata movement

**rock salt**

INIS: 2000-04-12; ETDE: 1981-11-10

- USE salt deposits

**ROCK SPRINGS SITES**

2000-04-12

- \*BT1 wyoming
- RT oil shale deposits

**ROCKET ENGINES**

1994-08-26

- \*BT1 heat engines
- RT rockets

**rocket reactor experiment phoebus-1a**

1993-11-09

- USE phoebus-1a reactor

**rocket reactor experiment phoebus-1b**

1993-11-09

- USE phoebus-1b reactor

**rocket reactor experiment phoebus-2a**

1993-11-09

- USE phoebus-2a reactor

**rocket reactor experiment rover**

2000-04-12

- USE rover reactors

**ROCKETS**

1996-07-16

(Prior to August 1996 ATLAS ROCKETS was a valid ETDE descriptor.)

- UF atlas rockets
- RT ammunition
- RT electronic guidance
- RT launching
- RT missile launching sites
- RT missiles
- RT navigational instruments
- RT projectiles
- RT propulsion systems
- RT reentry
- RT rocket engines
- RT space flight
- RT space vehicles

**rockgas process**

2000-04-12

Process for the gasification of coal using the partial oxidation of coal in a molten sodium carbonate medium to produce a low-btu fuel gas for consumption at the site of the gasification plant.

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE coal gasification

**rocking curve**

INIS: 1984-04-04; ETDE: 2002-05-11

- USE neutron diffraction

**ROCKS**

- NT1 caldasite
- NT1 igneous rocks
- NT2 lava
- NT2 plutonic rocks
- NT3 diorites
- NT3 gabbros
- NT4 anorthosites
- NT3 granites
- NT4 aplites
- NT4 granodiorites
- NT4 quartz monzonite
- NT3 pegmatites
- NT3 peridotites
- NT4 kimberlites
- NT3 syenites
- NT2 volcanic rocks
- NT3 andesites
- NT3 basalt
- NT4 diabases
- NT3 lamprophyres
- NT4 kimberlites
- NT3 nepheline basalts
- NT3 perlite
- NT3 rhyolites
- NT3 trachytes
- NT3 tuff
- NT1 metamorphic rocks
- NT2 amphibolites
- NT2 gneisses
- NT2 granulites
- NT2 marble
- NT2 quartzites
- NT2 schists
- NT2 serpentinites
- NT1 sedimentary rocks
- NT2 carbonate rocks
- NT3 limestone
- NT4 travertine
- NT2 chert
- NT2 conglomerates
- NT3 calcretes
- NT2 evaporites

**NT2** phosphate rocks  
**NT3** phosphorites  
**NT2** sandstones  
**NT3** graywacke  
**NT2** shales  
**NT3** argillite  
**NT3** oil shales  
**NT4** black shales  
**NT2** siltstones  
**NT2** sinters  
**NT1** synthetic rocks  
*RT* aquicludes  
*RT* aquifers  
*RT* basement rock  
*RT* cap rock  
*RT* concretions  
*RT* environmental materials  
*RT* geobarometry  
*RT* geologic strata  
*RT* lithology  
*RT* lunar materials  
*RT* minerals  
*RT* orogenesis  
*RT* overburden  
*RT* petrogenesis  
*RT* petrology  
*RT* reefs  
*RT* reservoir rock  
*RT* rock caverns  
*RT* rock-fluid interactions  
*RT* rock mechanics  
*RT* source rocks  
*RT* stone meteorites  
*RT* tectonics  
*RT* waste-rock interactions  
  
**rockwell flash hydroliquefaction process**  
 2000-04-12  
 USE cs-r process  
  
**ROCKWELL HARDNESS**  
*RT* hardness  
  
**rockwell international process**  
*INIS: 2000-04-12; ETDE: 1979-02-23*  
 SEE molten salt coal gasification process  
 SEE molten salt waste gasification process  
  
**ROCKY FLATS PLANT**  
 \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
*RT* colorado  
  
**rocky flats plant nuclear safety facility**  
 1993-11-09  
 USE nsf-rfp reactor  
  
**rocky mountain overthrust belt**  
*INIS: 2000-04-12; ETDE: 1982-07-27*  
 USE western us overthrust belt  
  
**rocky mountain region**  
*INIS: 2000-04-12; ETDE: 1977-10-20*  
 (Prior to June 1982 this was a valid ETDE descriptor.)  
 USE usa  
  
**ROCKY MOUNTAINS**  
 BT1 mountains  
*RT* canada  
*RT* usa  
  
**rod bundles**  
*INIS: 1976-07-30; ETDE: 1975-07-29*  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE fuel element clusters

**ROD DROP ACCIDENTS**

BT1 reactivity insertions  
 \*BT1 reactor accidents  
*RT* control elements

**ROD DROP METHOD**

*RT* control elements  
*RT* reactivity  
*RT* reactor kinetics

**ROD EJECTION ACCIDENTS**

\*BT1 reactor accidents  
*RT* control elements  
*RT* reactivity insertions

**ROD PUMPS**

*INIS: 2000-04-12; ETDE: 1984-03-19*  
*UF* plunger pumps  
*UF* sucker rod pumps  
 \*BT1 pumps  
*RT* natural gas wells

**RODENTS**

1996-11-13  
 (Prior to March 1997 CHIPMUNKS was a valid ETDE descriptor.)  
*UF* chipmunks  
*UF* kangaroo rat  
 \*BT1 mammals  
**NT1** gerbils  
**NT1** guinea pigs  
**NT1** hamsters  
**NT1** mice  
**NT2** transgenic mice  
**NT1** prairie dogs  
**NT1** rats  
**NT1** squirrels  
**NT1** voles  
*RT* disease vectors  
*RT* pest control

**RODS**

*RT* cylinders  
*RT* shape  
*RT* wires

**rods (control)**

USE control elements

**rods (fuel)**

USE fuel rods

**roentgen (exposure unit)**

For studies concerning units, concepts, or definitions. See also DOSE EQUIVALENTS.  
 USE radiation dose units

**roentgen equivalent man**

For studies concerning units, concepts, or definitions. See also DOSE EQUIVALENTS.  
 USE radiation dose units

**ROENTGENIUM**

2006-01-11  
 (Prior to January 2006 ELEMENT 111 was used for this element.)  
*UF* eka-gold  
*UF* element 111  
*UF* ununium  
 \*BT1 transactinide elements

**ROENTGENIUM 272**

2006-01-11  
 (Prior to January 2006 ELEMENT 111 272 was used for this concept.)  
*UF* element 111 272  
 \*BT1 alpha decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 roentgenium isotopes

**ROENTGENIUM 273**

2007-05-14  
 \*BT1 alpha decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 roentgenium isotopes

**ROENTGENIUM 274**

2007-05-14  
 \*BT1 alpha decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 roentgenium isotopes

**ROENTGENIUM 279**

2006-01-11  
 \*BT1 alpha decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 roentgenium isotopes

**ROENTGENIUM 280**

2006-01-11  
 \*BT1 alpha decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 roentgenium isotopes  
 \*BT1 seconds living radioisotopes

**ROENTGENIUM COMPOUNDS**

2006-01-11  
 (Prior to January 2006 ELEMENT 111 COMPOUNDS was used for this concept.)  
*UF* element 111 compounds  
 \*BT1 transactinide compounds

**ROENTGENIUM ISOTOPES**

2006-01-11  
 (Prior to January 2006 ELEMENT 111 ISOTOPES was used for this concept.)  
*UF* element 111 isotopes  
 BT1 isotopes  
**NT1** roentgenium 272  
**NT1** roentgenium 273  
**NT1** roentgenium 274  
**NT1** roentgenium 279  
**NT1** roentgenium 280

**ROGOWSKI COIL**

\*BT1 electric coils

**ROKKASHO REPROCESSING PLANT**

2006-04-19  
 \*BT1 fuel reprocessing plants

**roll welding**

USE forge welding

**rolla research reactor**

*INIS: 1984-06-21; ETDE: 2002-05-11*  
 USE umrr reactor

**ROLLED-IN PRICING**

*INIS: 2000-04-12; ETDE: 1980-05-23*  
 Weighted average cost of fuels; higher cost fuels averaged in with lower cost fuels.  
 BT1 prices  
*RT* fuel substitution  
*RT* fuels  
*RT* marginal-cost pricing

**ROLLER BEARINGS**

BT1 bearings

**ROLLING**

\*BT1 materials working  
*RT* cladding  
*RT* cold working

RT compacting  
RT hot working  
RT plating

**ROLLING FRICTION**

BT1 friction  
RT gears  
RT wear

**rolphoton npd-2 reactor**

1977-01-25

(Prior to July 1985 this was valid ETDE descriptor.)

USE npd reactor

**ROMANIA**

UF rumania  
BT1 developing countries  
\*BT1 eastern europe  
RT black sea  
RT centrally planned economies  
RT danube river

**ROMANIAN ORGANIZATIONS**

1999-05-11

BT1 national organizations

**romanian wwr-c reactor**

USE wwr-s-bucharest reactor

**ROMASHKA REACTOR**

Kurchatov Inst., Russian Federation.

UF kurchatov institute romashka reactor

\*BT1 research reactors  
\*BT1 solid homogeneous reactors

**rombach process**

2000-04-12

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**rome triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-05-11

USE triga-2-rome reactor

**romeo event**

INIS: 1994-10-14; ETDE: 1984-05-23

A test made during PROJECT CASTLE.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions  
USE nuclear explosions

**ROOF BOLTS**

INIS: 1999-05-19; ETDE: 1976-07-07

\*BT1 mining equipment  
RT strata control  
RT supports

**ROOF PONDS**

INIS: 2000-05-08; ETDE: 1979-02-27

\*BT1 passive solar cooling systems  
\*BT1 passive solar heating systems  
\*BT1 solar ponds  
RT roofs

**ROOFS**

INIS: 1986-04-04; ETDE: 1975-09-11

UF building envelope  
BT1 mechanical structures  
NT1 green roofs  
RT buildings  
RT roof ponds

**ROOM AND PILLAR MINING**

INIS: 1992-08-28; ETDE: 1977-07-23

\*BT1 underground mining  
RT coal mining

**ROOPPUR REACTOR**

UF rnpp-rooppur reactor

\*BT1 pwr type reactors

**ROOSEVELT HOT SPRINGS**

INIS: 2000-04-12; ETDE: 1979-01-30

BT1 kgra  
\*BT1 utah  
RT geothermal fields

**ROOT ABSORPTION**

UF absorption (root)

\*BT1 absorption  
BT1 uptake  
RT roots

**ROOTS**

RT plants  
RT root absorption  
RT soils

**ROPE PROCESS**

INIS: 2000-04-12; ETDE: 1989-10-06

Recycle oil pyrolysis extraction.

RT oil sands  
RT oil shales  
RT pyrolysis  
RT retorting

**roper resonance**

USE n-1440 baryons

**ROPES**

INIS: 2000-04-12; ETDE: 1978-10-30

RT cables  
RT chains  
RT wires

**rort**

INIS: 2000-04-12; ETDE: 1978-10-23

USE radial-outflow reaction turbines

**ROSACEAE**

INIS: 1992-01-13; ETDE: 1989-06-05

Rose family.

\*BT1 magnoliopsida  
NT1 strawberries  
RT apples  
RT apricots  
RT cherries  
RT peaches  
RT pears  
RT plums  
RT raspberries

**ROSE BENGAL**

BT1 dyes  
\*BT1 hydroxy acids  
BT1 indicators  
\*BT1 organic chlorine compounds  
\*BT1 organic iodine compounds  
BT1 reagents  
RT phthalic acid

**ROSE-METAL**

2000-04-12

\*BT1 bismuth alloys  
\*BT1 lead alloys  
\*BT1 tin alloys

**ROSE PROCESS**

INIS: 2000-04-12; ETDE: 1976-08-25

Residuum Oil Supercritical Extraction process involves use of variety of selective solvents for extractive treatment of reduced crude oils and vacuum residues.

RT residual fuels

**rosenblum counters**

USE spark counters

**ROSENBLUTH FORMULA**

RT cross sections  
RT elastic scattering  
RT four momentum transfer

**rosenbluth-nelkin model**

1996-07-23

(Until July 1996 this was a valid descriptor.)

SEE neutron transport theory

**ROSENFELD FORCE**

UF rosenfeld mixture  
RT nucleon-nucleon potential  
RT nucleons  
RT potentials

**rosenfeld mixture**

USE rosenfeld force

**ROSPO REACTOR**

1986-10-29

UF casaccia rospo reactor  
UF reattore organico sperimentale potenza zero

\*BT1 enriched uranium reactors  
\*BT1 organic moderated reactors  
\*BT1 tank type reactors  
\*BT1 zero power reactors

**ROSSELAND APPROXIMATION**

\*BT1 approximations  
RT boundary layers  
RT heat transfer  
RT thermal radiation

**rossendorf assembly for critical experiments**

INIS: 1993-11-09; ETDE: 1975-09-11

USE rake-2 reactor

**rossendorf wwr-sm reactor**

INIS: 1984-06-21; ETDE: 2002-05-11

USE wwr-sm rossendorf reactor

**rossendorf zfk**

1991-05-02

USE zfk rossendorf

**ROSSI ALPHA METHOD**

RT reactor period

**ROTAMAK DEVICES**

INIS: 1986-08-19; ETDE: 1986-09-05

A compact torus device in which a rotating magnetic field is used to maintain the toroidal plasma current.

\*BT1 compact torus

**ROTARY DRILLING**

INIS: 2000-04-12; ETDE: 1977-03-08

BT1 drilling  
RT drilling equipment  
RT drilling fluids  
RT rock drilling  
RT well drilling

**ROTARY DRILLS**

INIS: 1997-06-19; ETDE: 1977-03-08

\*BT1 drills  
NT1 turbodrills  
RT drill bits  
RT rock drilling  
RT well drilling

**ROTARY ENGINES**

INIS: 2000-04-12; ETDE: 1975-10-01

SF krov machine  
\*BT1 internal combustion engines  
NT1 wankel engines  
RT helical rotary screw expander

**ROTARY SEPARATOR TURBINES**

INIS: 2000-04-12; ETDE: 1980-03-04

\*BT1 turbines  
RT total flow systems

**ROTATING CRYSTAL METHOD**

BT1 diffraction methods

RT weissenberg method

## ROTATING DISK REMOVAL SYSTEMS

INIS: 2000-04-12; ETDE: 1978-01-23

\*BT1 pollution control equipment  
RT oil spills  
RT water pollution control

## ROTATING GENERATORS

1999-06-30

\*BT1 electric generators  
NT1 superconducting generators

## ROTATING PLASMA

INIS: 1981-08-31; ETDE: 1981-09-22

BT1 plasma

## ROTATION

BT1 motion  
RT angular momentum  
RT backbending  
RT coriolis force  
RT guiding-center approximation  
RT gyroscopes  
RT moment of inertia  
RT precession

## ROTATION-VIBRATION MODEL

INIS: 1991-09-25; ETDE: 1991-12-05

\*BT1 collective model  
RT deformed nuclei  
RT rotational states  
RT vibrational states

## rotational band

USE rotational states

## ROTATIONAL INVARIANCE

BT1 invariance principles  
RT axial symmetry

## ROTATIONAL STATES

UF collective states (rotational)  
UF rotational band  
\*BT1 excited states  
RT backbending  
RT rotation-vibration model

## ROTATIONAL TRANSFORM

1999-07-26

*The displacement of a magnetic line of force in a single circuit about a toroidal tube so that it does not close upon itself.*

RT magnetic confinement  
RT magnetic field configurations  
RT magnetic fields  
RT magnetic flux coordinates  
RT magnetic surfaces  
RT reversed-field pinch devices  
RT reversed shear  
RT sawtooth oscillations  
RT shear  
RT thermonuclear devices  
RT tori  
RT toroidal configuration

## ROTIFERA

INIS: 1993-07-19; ETDE: 1983-04-28

*A phylum of multicellular animals in the subkingdom eumetazoa.*

BT1 aquatic organisms  
\*BT1 invertebrates  
RT aquatic ecosystems  
RT fresh water

## rotliegende epoch

INIS: 2000-04-12; ETDE: 1977-10-20

USE permian period

## ROTONS

BT1 quasi particles  
RT landau liquid helium theory

## ROTORS

SF krov machine  
NT1 darrius rotors  
NT1 flywheels  
NT1 madaras rotors  
NT1 savonius rotors  
NT1 tipvane rotors  
RT armatures  
RT machine parts  
RT stators

## rotterdam spot market

INIS: 1992-01-29; ETDE: 1979-12-10

USE spot market

## rough vacuum

SEE pressure range kilo pa  
SEE pressure range pa

## ROUGHNESS

UF smoothness  
BT1 surface properties

## rous sarcoma virus

INIS: 1976-03-25; ETDE: 1975-08-19

USE oncogenic viruses

## ROUTING

INIS: 1984-01-18; ETDE: 1983-09-15

UF transportation routes  
RT evacuation  
RT external zones  
RT rail transport  
RT road transport  
RT waste transportation

## ROVER REACTORS

UF rocket reactor experiment rover  
\*BT1 experimental reactors  
\*BT1 hydrogen cooled reactors  
\*BT1 space propulsion reactors

## ROVNO-1 REACTOR

INIS: 1984-08-23; ETDE: 1978-04-06

\*BT1 wwer type reactors

## ROVNO-2 REACTOR

INIS: 1984-08-23; ETDE: 1978-04-06

\*BT1 wwer type reactors

## ROVNO-3 REACTOR

INIS: 1984-08-23; ETDE: 1978-04-06

\*BT1 wwer type reactors

## ROVNO-4 REACTOR

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 wwer type reactors

## ROVNO-5 REACTOR

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 wwer type reactors

## ROWE YANKEE REACTOR

*Yankee Atomic Electric, Rowe, Massachusetts, USA. Shut down in 1991; decommissioned in 1995.*

UF yankee rowe reactor  
\*BT1 pwr type reactors

## ROXBYS DOWN'S DEPOSIT

INIS: 1980-12-01; ETDE: 1981-01-09

\*BT1 uranium deposits  
RT olympic dam mine  
RT south australia  
RT uranium ores

## royal jelly

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

SEE radioprotective substances

## ROYALTIES

INIS: 1999-03-04; ETDE: 1978-11-14

*Payment to the owner or grantor as a share of the product or profit from the use of a property.*

BT1 income  
RT economics  
RT mineral resources  
RT profits

## RP-10 REACTOR

INIS: 1987-08-27; ETDE: 1987-10-02

*Peruvian Nuclear Energy Institute, lima, Peru.*

\*BT1 pool type reactors  
\*BT1 research reactors

## RPL DOSEMETERS

UF fluorod  
UF glass dosimeters  
UF radiophotoluminescent dosimeters  
\*BT1 luminescent dosimeters  
RT phosphate glass

## RPT REACTOR

*Moscow, Russian Federation.*

UF mr-2 moscow reactor  
UF physical and technical research reactor moscow

\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 mixed spectrum reactors  
\*BT1 research reactors  
\*BT1 tank type reactors

## rra

INIS: 1984-04-04; ETDE: 2002-05-11

USE radioreceptor assay

## rrc, kalpakkam

INIS: 1977-03-14; ETDE: 2002-05-11

USE igcar

## rscw reactor

USE wsur reactor

## rsi avogadro reactor

USE avogadro rs-1 reactor

## RTP REACTOR

1984-12-04

*Reaktor Triga Puspati.*

UF puspati triga reactor  
UF reactor triga puspati  
UF triga puspati reactor  
\*BT1 isotope production reactors  
\*BT1 triga type reactors

## RTP TOKAMAK

1993-08-03

*Rijnhuizen Tokamak Project, Netherlands.*

\*BT1 tokamak devices

## rtr method

INIS: 2000-04-12; ETDE: 1980-02-11

USE ribbon-to-ribbon method

## RTR REACTOR

*Savannah River Plant, Aiken, South Carolina, USA.*

UF resonance test reactor savannah  
UF savannah river lab rtr reactor  
\*BT1 heavy water moderated reactors  
\*BT1 production reactors

## RTS-1 REACTOR

*Centre for Military Applications of Nuclear Energy, Pisa, Italy.*

UF galileo galilei italy  
UF san piero a grado pisa reactor  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors

- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**rubber (natural)**

USE natural rubber

**RUBBER INDUSTRY**

INIS: 1993-09-01; ETDE: 1980-05-23

- BT1 industry
- RT rubbers

**RUBBER TREES**

1997-06-17

- \*BT1 euphorbia
- \*BT1 trees
- NT1 guayule
- NT1 hevea
- RT natural rubber

**RUBBERS**

- \*BT1 elastomers
- \*BT1 organic polymers
- NT1 buna
- NT1 latex
- NT1 natural rubber
- NT1 silastic
- NT1 viton
- RT dielectric materials
- RT ethylene propylene diene polymers
- RT plasticizers
- RT rubber industry
- RT synthetic materials
- RT vulcanization

**rubella virus**

INIS: 1980-04-02; ETDE: 1980-05-06

USE measles virus

**rubeola**

INIS: 1976-06-23; ETDE: 1976-08-24

USE measles

**rubeola virus**

INIS: 1980-04-02; ETDE: 1980-05-06

USE measles virus

**RUBIDIUM**

- \*BT1 alkali metals

**RUBIDIUM 100**

INIS: 1976-03-02; ETDE: 1975-11-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 101**

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 102**

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 103**

INIS: 1982-06-09; ETDE: 1982-07-08

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 71**

2007-12-21

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes
- \*BT1 rubidium isotopes

**RUBIDIUM 72**

2007-12-21

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 proton decay radioisotopes
- \*BT1 rubidium isotopes

**RUBIDIUM 73**

INIS: 1992-09-23; ETDE: 1980-06-22

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 74**

INIS: 1977-06-14; ETDE: 1977-10-20

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 75**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 76**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 77**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 78**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 79**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 80**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 81**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 82**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 83**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 84**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 84 TARGET**

INIS: 1976-07-06; ETDE: 1976-08-24

BT1 targets

**RUBIDIUM 85**

- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 stable isotopes

**RUBIDIUM 85 TARGET**

ETDE: 1976-07-09

BT1 targets

**RUBIDIUM 86**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 87**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 years living radioisotopes

**RUBIDIUM 87 TARGET**

ETDE: 1976-07-09

BT1 targets

**RUBIDIUM 88**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 88 TARGET**

INIS: 1980-07-24; ETDE: 1980-08-12

BT1 targets

**RUBIDIUM 89**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 90**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 91**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 92**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 94**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 96**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM ADDITIONS**

*Alloys containing not more than 1% Rb are listed here.*

- \*BT1 rubidium alloys

**RUBIDIUM ALLOYS**

*Alloys containing more than 1% Rb.*

- BT1 alloys
- NT1 rubidium additions
- NT1 rubidium base alloys

**RUBIDIUM BASE ALLOYS**

- \*BT1 rubidium alloys

**RUBIDIUM BROMIDES**

- \*BT1 bromides
- \*BT1 rubidium compounds

**RUBIDIUM CARBIDES**

*INIS: 1981-02-27; ETDE: 1976-03-22*

- \*BT1 carbides
- \*BT1 rubidium compounds

**RUBIDIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 rubidium compounds

**RUBIDIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 rubidium compounds

**RUBIDIUM COMPLEXES**

- \*BT1 alkali metal complexes

**RUBIDIUM COMPOUNDS**

*1997-06-19*

- BT1 alkali metal compounds
- NT1 rubidium bromides
- NT1 rubidium carbides
- NT1 rubidium carbonates
- NT1 rubidium chlorides
- NT1 rubidium fluorides
- NT1 rubidium hydrides
- NT1 rubidium hydroxides
- NT1 rubidium iodides
- NT1 rubidium nitrates
- NT1 rubidium oxides
- NT1 rubidium perchlorates
- NT1 rubidium phosphates
- NT1 rubidium selenides
- NT1 rubidium silicates
- NT1 rubidium silicides
- NT1 rubidium sulfates
- NT1 rubidium sulfides
- NT1 rubidium tellurides
- NT1 rubidium tungstates
- NT1 rubidium uranates

**RUBIDIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 rubidium compounds

**RUBIDIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 rubidium compounds

**RUBIDIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 rubidium compounds

**RUBIDIUM IODIDES**

- \*BT1 iodides
- \*BT1 rubidium compounds

**RUBIDIUM IONS**

- \*BT1 ions

**RUBIDIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 rubidium 100
- NT1 rubidium 101
- NT1 rubidium 102
- NT1 rubidium 103
- NT1 rubidium 71
- NT1 rubidium 72
- NT1 rubidium 73
- NT1 rubidium 74
- NT1 rubidium 75
- NT1 rubidium 76
- NT1 rubidium 77
- NT1 rubidium 78
- NT1 rubidium 79
- NT1 rubidium 80

NT1 rubidium 81

NT1 rubidium 82

NT1 rubidium 83

NT1 rubidium 84

NT1 rubidium 85

NT1 rubidium 86

NT1 rubidium 87

NT1 rubidium 88

NT1 rubidium 89

NT1 rubidium 90

NT1 rubidium 91

NT1 rubidium 92

NT1 rubidium 93

NT1 rubidium 94

NT1 rubidium 95

NT1 rubidium 96

NT1 rubidium 97

NT1 rubidium 98

NT1 rubidium 99

**RUBIDIUM NITRATES**

- \*BT1 nitrates
- \*BT1 rubidium compounds

**RUBIDIUM OXIDES**

- \*BT1 oxides
- \*BT1 rubidium compounds

**RUBIDIUM PERCHLORATES**

*2000-04-12*

- \*BT1 perchlorates
- \*BT1 rubidium compounds

**RUBIDIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 rubidium compounds

**RUBIDIUM SELENIDES**

*INIS: 1991-09-16; ETDE: 1980-09-05*

- \*BT1 rubidium compounds
- \*BT1 selenides

**RUBIDIUM SILICATES**

*INIS: 1977-01-26; ETDE: 1976-11-01*

- \*BT1 rubidium compounds
- \*BT1 silicates

**RUBIDIUM SILICIDES**

*INIS: 1991-09-16; ETDE: 1977-01-10*

- \*BT1 rubidium compounds
- \*BT1 silicides

**RUBIDIUM SULFATES**

- \*BT1 rubidium compounds
- \*BT1 sulfates

**RUBIDIUM SULFIDES**

*INIS: 1991-09-16; ETDE: 1976-02-19*

- \*BT1 rubidium compounds
- \*BT1 sulfides

**RUBIDIUM TELLURIDES**

*INIS: 2000-04-12; ETDE: 1979-05-03*

- \*BT1 rubidium compounds
- \*BT1 tellurides

**RUBIDIUM TUNGSTATES**

*1978-05-19*

- \*BT1 rubidium compounds
- \*BT1 tungstates

**RUBIDIUM URANATES**

*INIS: 1975-11-27; ETDE: 1975-08-19*

- \*BT1 rubidium compounds
- \*BT1 uranates

**RUBREDOXIN**

*INIS: 2000-04-12; ETDE: 1982-08-24*

- \*BT1 metalloproteins
- RT ferredoxin
- RT iron complexes

**RUBY**

- \*BT1 corundum



**RUBY LASERS**

\*BT1 solid state lasers

**RUDERMAN-KITTEL COUPLING**

BT1 coupling

**RUDSTAM FORMULA**

RT spallation

**RUHR 100 GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1983-04-07

*The Ruhr 100 gasifier is basically a Lurgi type gasifier with modifications for high pressure operation.*

\*BT1 coal gasification

**rulison event**

1994-10-14

*A test made during OPERATION MANDREL.*

(Prior to September 1994, this was a valid

ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**RUM JUNGLE MINE**

INIS: 1999-10-28; ETDE: 1999-11-01

(Until October 1999 this was spelled RUM JUNGLE.)

UF rum jungle project

\*BT1 uranium mines

RT australia

**rum jungle project**

2000-04-12

USE rum jungle mine

**rumania**

USE romania

**rumen**

USE ruminants

USE stomach

**RUMINANTS**

1996-11-13

(Prior to March 1997 ANTELOPES was a valid ETDE descriptor.)

UF antelopes

UF rumen

\*BT1 mammals

NT1 buffalo

NT1 camels

NT1 cattle

NT2 calves

NT2 cows

NT1 deer

NT1 goats

NT1 llamas

NT1 sheep

**runaway (reactor accident)**

USE excursions

**RUNAWAY ELECTRONS**

\*BT1 electrons

RT tail electrons

**RUNGE-KUTTA METHOD**

INIS: 1981-03-23; ETDE: 1978-08-07

*A self-optimizing interpolation method.*

\*BT1 iterative methods

\*BT1 numerical solution

RT differential equations

RT interpolation

RT mathematics

**RUNOFF**

INIS: 1992-02-23; ETDE: 1978-07-05

\*BT1 environmental transport

RT atmospheric precipitations

RT drainage

RT floods

RT interception

RT rain water

RT settling ponds

RT storms

RT throughfall

RT watersheds

**rupture disks**

1986-04-04

USE relief valves

**RUPTURES**

BT1 failures

RT fracture properties

RT fractures

**RURAL AREAS**

RT boom towns

RT remote areas

RT residential sector

RT rural energy centers

RT rural populations

**rural electrification administration**

INIS: 2000-04-12; ETDE: 1979-09-06

USE us rea

**RURAL ENERGY CENTERS**

INIS: 2000-04-12; ETDE: 1977-08-09

*Centers to improve the basic living environment by exploiting renewable energy at the rural level.*

RT developing countries

RT energy facilities

RT energy parks

RT rural areas

**RURAL POPULATIONS**

\*BT1 human populations

RT rural areas

**russell-saunders coupling**

USE l-s coupling

**russellville-1 arkansas reactor**

1993-11-09

USE arkansas-1 reactor

**russellville-2 arkansas reactor**

1993-11-09

USE arkansas-2 reactor

**RUSSIAN FEDERATION**

INIS: 1997-08-20; ETDE: 1992-12-03

(Until January 1993, this was indexed by USSR.)

SF soviet union

SF union of soviet socialist republics

SF ussr

\*BT1 eastern europe

NT1 dubna

NT1 kamchatka

NT1 kurile islands

NT1 lovozero

NT1 novaya zemlya

NT1 siberia

RT caspian sea

RT caucasus

RT kyshtym plant

RT mayak plant

RT techa river

RT urals

RT volga river

**RUSSIAN ORGANIZATIONS**

1997-07-30

(Until July 1997 this concept was indexed to USSR ORGANIZATIONS.)

UF ussr organizations

BT1 national organizations

NT1 gosatomnadzor rossii

NT1 ihep

NT1 st petersburg institute of nuclear physics

**russian state nuclear and radiation safety authority**

INIS: 2000-04-12; ETDE: 1997-08-23

USE gosatomnadzor rossii

**russian thistle**

INIS: 2000-04-12; ETDE: 1981-04-17

(Prior to March 1997 TUMBLEWEEDS was used for this concept in ETDE.)

USE magnoliopsida

**RUTHENIUM**

\*BT1 platinum metals

\*BT1 refractory metals

**RUTHENIUM 100**

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 stable isotopes

**RUTHENIUM 100 TARGET**

ETDE: 1976-07-09

BT1 targets

**RUTHENIUM 101**

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 stable isotopes

**RUTHENIUM 101 TARGET**

INIS: 1976-10-07; ETDE: 1976-11-01

BT1 targets

**RUTHENIUM 102**

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 stable isotopes

**RUTHENIUM 102 TARGET**

INIS: 1975-10-23; ETDE: 1976-07-09

BT1 targets

**RUTHENIUM 103**

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

**RUTHENIUM 103 TARGET**

INIS: 1984-02-23; ETDE: 1981-08-21

BT1 targets

**RUTHENIUM 104**

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 stable isotopes

**RUTHENIUM 104 REACTIONS**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 heavy ion reactions

**RUTHENIUM 104 TARGET**

ETDE: 1976-07-09

BT1 targets

**RUTHENIUM 105**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

**RUTHENIUM 106**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

- \*BT1 ruthenium isotopes
- \*BT1 years living radioisotopes

**RUTHENIUM 107**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 108**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 109**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 110**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 111**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 112***1979-01-18*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 113***INIS: 1979-01-18; ETDE: 1979-02-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 114***1993-03-09*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 115***2007-06-06*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 116***2007-06-06*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 117***2007-06-06*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

- \*BT1 milliseconds living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 118***2007-06-06*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 119***2007-06-06*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes

**RUTHENIUM 120***2007-06-06*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes

**RUTHENIUM 87***2007-06-06*

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 88***1995-02-27*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes

**RUTHENIUM 89***1999-09-22*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 90***INIS: 1996-11-27; ETDE: 1996-01-12*

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 91***1983-09-05*

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 92**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 93**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 94**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 95**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes

**RUTHENIUM 96**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 stable isotopes

**RUTHENIUM 96 TARGET***ETDE: 1976-07-09*

- BT1 targets

**RUTHENIUM 97**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes

**RUTHENIUM 98**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 stable isotopes

**RUTHENIUM 98 TARGET***1979-02-21*

- BT1 targets

**RUTHENIUM 99**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 stable isotopes

**RUTHENIUM 99 TARGET***INIS: 1978-11-24; ETDE: 1978-12-20*

- BT1 targets

**RUTHENIUM ADDITIONS***Alloys containing not more than 1% Ru are listed here.*

- \*BT1 ruthenium alloys

**RUTHENIUM ALLOYS***Alloys containing more than 1% Ru.*

- \*BT1 platinum metal alloys
- NT1 ruthenium additions
- NT1 ruthenium base alloys

**RUTHENIUM ARSENIDES***INIS: 2000-04-12; ETDE: 1984-06-14*

- \*BT1 arsenides
- \*BT1 ruthenium compounds

**RUTHENIUM BASE ALLOYS**

- \*BT1 ruthenium alloys

**RUTHENIUM BORIDES***1976-02-05*

- \*BT1 borides
- \*BT1 ruthenium compounds

**RUTHENIUM BROMIDES***INIS: 1977-06-13; ETDE: 1977-10-20*

- \*BT1 bromides
- \*BT1 ruthenium compounds

**RUTHENIUM CARBIDES**

- \*BT1 carbides
- \*BT1 ruthenium compounds

**RUTHENIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 ruthenium compounds

**RUTHENIUM COMPLEXES**

- \*BT1 transition element complexes

**RUTHENIUM COMPOUNDS**

1997-06-19

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 ruthenium arsenides
- NT1 ruthenium borides
- NT1 ruthenium bromides
- NT1 ruthenium carbides
- NT1 ruthenium chlorides
- NT1 ruthenium fluorides
- NT1 ruthenium hydrides
- NT1 ruthenium hydroxides
- NT1 ruthenium nitrates
- NT1 ruthenium nitrides
- NT1 ruthenium nitrosyls
- NT1 ruthenium oxides
- NT1 ruthenium phosphides
- NT1 ruthenium selenides
- NT1 ruthenium silicides
- NT1 ruthenium sulfates
- NT1 ruthenium sulfides
- NT1 ruthenium tellurides

**RUTHENIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 ruthenium compounds

**RUTHENIUM HYDRIDES**

INIS: 1976-02-05; ETDE: 1975-10-28

- \*BT1 hydrides
- \*BT1 ruthenium compounds

**RUTHENIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 ruthenium compounds

**RUTHENIUM IONS**

- \*BT1 ions

**RUTHENIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 ruthenium 100
- NT1 ruthenium 101
- NT1 ruthenium 102
- NT1 ruthenium 103
- NT1 ruthenium 104
- NT1 ruthenium 105
- NT1 ruthenium 106
- NT1 ruthenium 107
- NT1 ruthenium 108
- NT1 ruthenium 109
- NT1 ruthenium 110
- NT1 ruthenium 111
- NT1 ruthenium 112
- NT1 ruthenium 113
- NT1 ruthenium 114
- NT1 ruthenium 115
- NT1 ruthenium 116
- NT1 ruthenium 117
- NT1 ruthenium 118
- NT1 ruthenium 119
- NT1 ruthenium 120
- NT1 ruthenium 87
- NT1 ruthenium 88
- NT1 ruthenium 89
- NT1 ruthenium 90
- NT1 ruthenium 91
- NT1 ruthenium 92
- NT1 ruthenium 93
- NT1 ruthenium 94
- NT1 ruthenium 95
- NT1 ruthenium 96
- NT1 ruthenium 97

NT1 ruthenium 98

NT1 ruthenium 99

**RUTHENIUM NITRATES**

- \*BT1 nitrates
- \*BT1 ruthenium compounds

**RUTHENIUM NITRIDES**

INIS: 2000-04-12; ETDE: 1975-12-16

- \*BT1 nitrides
- \*BT1 ruthenium compounds

**RUTHENIUM NITROSILS**

- \*BT1 ruthenium compounds

**RUTHENIUM OXIDES**

- \*BT1 oxides
- \*BT1 ruthenium compounds

**RUTHENIUM PHOSPHIDES**

1978-07-03

- \*BT1 phosphides
- \*BT1 ruthenium compounds

**RUTHENIUM SELENIDES**

INIS: 1991-09-16; ETDE: 1976-04-19

- \*BT1 ruthenium compounds
- \*BT1 selenides

**RUTHENIUM SILICIDES**

INIS: 1986-07-09; ETDE: 1985-10-25

- \*BT1 ruthenium compounds
- \*BT1 silicides

**RUTHENIUM SULFATES**

- \*BT1 ruthenium compounds
- \*BT1 sulfates

**RUTHENIUM SULFIDES**

INIS: 1978-11-24; ETDE: 1978-12-20

- \*BT1 ruthenium compounds
- \*BT1 sulfides

**RUTHENIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1977-03-04

- \*BT1 ruthenium compounds
- \*BT1 tellurides

**rutherford backscattering  
spectrometry**

2002-11-25

- USE rutherford backscattering spectroscopy

**RUTHERFORD BACKSCATTERING  
SPECTROSCOPY**

2002-11-25

(Prior to Dec 2002 RUTHERFORD SCATTERING + BACKSCATTERING was used for this concept.)

UF rbs

UF rutherford backscattering spectrometry

- BT1 spectroscopy
- RT backscattering
- RT ion spectroscopy
- RT rutherford scattering

**RUTHERFORD SCATTERING**

- \*BT1 elastic scattering
- RT rutherford backscattering spectroscopy

**rutherfordite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE carbonate minerals
- USE uranium minerals

**RUTHERFORDIUM**

2004-03-12

(Prior to March 2004 ELEMENT 104 was used for this element.)

UF eka-hafnium

UF element 104

UF kurchatovium

UF unnilquadium

- \*BT1 transactinide elements

**RUTHERFORDIUM 253**

2004-03-12

(Prior to March 2004 ELEMENT 104 253 was used for this concept.)

UF element 104 253

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 microseconds living radioisotopes

\*BT1 rutherfordium isotopes

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 254**

2004-03-12

(Prior to March 2004 ELEMENT 104 254 was used for this concept.)

UF element 104 254

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 microseconds living radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 rutherfordium isotopes

\*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 255**

2004-03-12

(Prior to March 2004 ELEMENT 104 255 was used for this concept.)

UF element 104 255

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 rutherfordium isotopes

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 256**

2004-03-12

(Prior to March 2004 ELEMENT 104 256 was used for this concept.)

UF element 104 256

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 rutherfordium isotopes

\*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 257**

2004-03-12

(Prior to March 2004 ELEMENT 104 257 was used for this concept.)

UF element 104 257

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 rutherfordium isotopes

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 258**

2004-03-12

(Prior to March 2004 ELEMENT 104 258 was used for this concept.)

UF element 104 258

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 259**

2004-03-12

(Prior to March 2004 ELEMENT 104 259 was used for this concept.)

*UF element 104 259*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 260**

2004-03-12

(Prior to March 2004 ELEMENT 104 260 was used for this concept.)

*UF element 104 260*

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 261**

2004-03-12

(Prior to March 2004 ELEMENT 104 261 was used for this concept.)

*UF element 104 261*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 262**

2004-03-15

(Prior to March 2004 ELEMENT 104 262 was used for this concept.)

*UF element 104 262*

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 263**

2004-03-15

(Prior to March 2004 ELEMENT 104 263 was used for this concept.)

*UF element 104 263*

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 264**

2007-12-21

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes

**RUTHERFORDIUM 265**

2007-12-21

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes

**RUTHERFORDIUM 266**

2007-12-21

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes

**RUTHERFORDIUM 267**

2007-12-21

- \*BT1 even-odd nuclei

- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 268**

2007-12-21

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes

**RUTHERFORDIUM CHLORIDES**

2004-03-15

(Prior to March 2004 ELEMENT 104 CHLORIDES was used for this concept.)

*UF element 104 chlorides*

- \*BT1 chlorides
- \*BT1 rutherfordium compounds

**RUTHERFORDIUM COMPLEXES**

2004-03-15

(Prior to March 2004 ELEMENT 104 COMPLEXES was used for this concept.)

*UF element 104 complexes*

- BT1 complexes

**RUTHERFORDIUM COMPOUNDS**

2004-03-15

(Prior to March 2004 ELEMENT 104 COMPOUNDS was used for this concept.)

*UF element 104 compounds*

- \*BT1 transactinide compounds
- NT1 rutherfordium chlorides

**RUTHERFORDIUM ISOTOPES**

2004-03-12

(Prior to March 2004 ELEMENT 104 ISOTOPES was used for this concept.)

*UF element 104 isotopes*

- BT1 isotopes
- NT1 rutherfordium 253
- NT1 rutherfordium 254
- NT1 rutherfordium 255
- NT1 rutherfordium 256
- NT1 rutherfordium 257
- NT1 rutherfordium 258
- NT1 rutherfordium 259
- NT1 rutherfordium 260
- NT1 rutherfordium 261
- NT1 rutherfordium 262
- NT1 rutherfordium 263
- NT1 rutherfordium 264
- NT1 rutherfordium 265
- NT1 rutherfordium 266
- NT1 rutherfordium 267
- NT1 rutherfordium 268

**RUTILE**

- \*BT1 oxide minerals
- \*BT1 radioactive minerals
- RT titanium oxides

**RV-1 REACTOR***Venezuelan Scientific Research Institute, IVIC, Caracas, Venezuela.**UF reactor venezolano-1*

- \*BT1 enriched uranium reactors
- \*BT1 materials testing reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 training reactors

**RWANDA***INIS: 1991-10-22; ETDE: 1979-12-10*

- BT1 africa
- BT1 developing countries

**rwe-bayernwerk-a reactor***INIS: 1975-08-20; ETDE: 2002-05-11*

- USE rwe-bayernwerk reactor

**rwe-bayernwerk-b reactor***INIS: 1975-08-20; ETDE: 1976-05-19*

- USE gundremmingen-2 reactor

**rwe-bayernwerk-c reactor***INIS: 1975-08-20; ETDE: 1976-05-19*

- USE gundremmingen-3 reactor

**RWE-BAYERNWERK REACTOR**

- UF gundremmingen-1 reactor*
- UF gundremminger krb reactor*
- UF kernkraftwerk rwe-bayernwerk*
- UF krb reactor*
- UF rwe-bayernwerk-a reactor*
- \*BT1 bwr type reactors

**rwsu reactor**

- USE wsur reactor

**rydberg constant**

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE fundamental constants

**RYDBERG CORRECTION**

- BT1 corrections
- RT balmer lines
- RT energy levels
- RT energy spectra
- RT rydberg states

**RYDBERG EQUATION**

- BT1 equations

**RYDBERG-KLEIN-REES METHOD**

- UF rkr method*
- BT1 calculation methods
- RT electronic structure
- RT spectra
- RT vibrational states

**RYDBERG STATES**

1981-04-03

(Prior to April 1981, this concept in ETDE was indexed to RYDBERG CORRECTION.)

- \*BT1 excited states
- RT electronic structure
- RT rydberg correction

**RYE**

1996-07-18

- UF secale*
- \*BT1 cereals

**s-1000 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

- USE mesons

**s-1930 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

- USE x-1935 mesons

**s-993 resonances***INIS: 1987-12-21; ETDE: 1979-09-26*

(Prior to December 1987 this was a valid descriptor.)

- USE f0-980 mesons

**SANTIQUARKS**

2007-06-26

- \*BT1 antiquarks
- \*BT1 s quarks

**s-branes**

2007-08-13

- USE branes

**S CENTERS**

INIS: 1978-04-21; ETDE: 1978-07-06

\*BT1 color centers

**S CHANNEL**

RT mandelstam representation

RT particle interactions

RT t channel

RT u channel

**S CODES**

BT1 computer codes

**S MATRIX**

UF collision matrix

UF t matrix

BT1 matrices

RT analytic functions

RT detailed balance principle

RT landau curves

RT quantum field theory

RT scattering

RT scattering amplitudes

RT singularity

RT unitarity

RT unitary pole approximation

RT yang-feldman formalism

**S-N DIAGRAM**

\*BT1 diagrams

RT fatigue

RT materials testing

RT stresses

**S PROCESS**

*Slow process in stellar nucleosynthesis.*

\*BT1 star evolution

RT nucleosynthesis

RT stars

**S QUARKS**

INIS: 1995-09-08; ETDE: 1995-10-03

\*BT1 quarks

\*BT1 strange particles

NT1 s antiquarks

RT strangeonium

**S STATES**

BT1 energy levels

**S WAVES**

*For seismic waves use SEISMIC S WAVES.*

BT1 partial waves

RT angular momentum

RT quantum mechanics

**s waves (seismic)**

INIS: 1980-05-14; ETDE: 1976-11-17

USE seismic s waves

**S10FS-1 REACTOR**

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

UF snap-10a flight system test-1

\*BT1 nak cooled reactors

\*BT1 snap 10 reactor

**S10FS-3 REACTOR**

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

UF snap-10a flight system test-3

\*BT1 nak cooled reactors

\*BT1 snap 10 reactor

**S10FS-4 REACTOR**

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

UF snap-10a flight system test-4

\*BT1 nak cooled reactors

\*BT1 snap 10 reactor

**S1C PROTOTYPE REACTOR**

*KAPL, Niskayuna, New York, USA.*

\*BT1 mobile reactors

\*BT1 pwr type reactors

\*BT1 test reactors

**S2DS REACTOR**

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

UF snap-2 developmental system

\*BT1 nak cooled reactors

\*BT1 snap 2 reactor

**s4 reactor**

2000-04-12

SEE snap reactors

**S8DR REACTOR**

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

UF snap-8 developmental reactor

\*BT1 nak cooled reactors

\*BT1 snap 8 reactor

**S8ER REACTOR**

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

UF snap-8 experimental reactor

\*BT1 nak cooled reactors

\*BT1 snap 8 reactor

**s8g prototype reactor**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE ship propulsion reactors

**SAARBERG-HOLTER PROCESS**

INIS: 2000-04-12; ETDE: 1979-05-09

*A wet lime scrubbing process with additives; gypsum by-product.*

\*BT1 desulfurization

RT waste processing

**SAARBERG-OTTO GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1977-11-09

*High-temperature process with concurrent flow carburetor operating at 25 bar and below the melting point of slag.*

\*BT1 coal gasification

**saas**

INIS: 1991-05-02; ETDE: 1985-08-09

(Prior to May 1991, this was a valid descriptor.)

USE bundesamt fuer strahlenschutz

**SABOTAGE**

(From May 1987 till March 1997 terrorism was a valid ETDE descriptor.)

SF terrorism

RT hazards

RT human intrusion

RT physical protection

RT safety

RT secrecy protection

RT security

RT security personnel

RT theft

RT vulnerability

**SABUGALITE**

2000-04-12

\*BT1 uranium minerals

RT aluminium phosphates

RT uranium phosphates

**SACCHARIDES**

1996-06-28

UF amino sugars

UF aminoglycides

UF glycides

UF sugars

\*BT1 carbohydrates

NT1 glycolipids

NT2 cerebrosides

NT2 gangliosides

NT1 glycoproteins

NT2 avidin

NT2 glucoproteins

NT3 lactoferrin

NT3 ovalbumin

NT2 luteinizing hormone

NT1 monosaccharides

NT2 erythritol

NT2 hexoses

NT3 fructose

NT3 galactose

NT3 glucose

NT3 hexosamines

NT4 glucosamine

NT3 mannose

NT3 sorbose

NT2 inositols

NT3 inositol

NT2 pentoses

NT3 arabinose

NT3 deoxyribose

NT3 ribose

NT3 ribulose

NT3 xylose

NT2 sorbitol

NT1 oligosaccharides

NT2 disaccharides

NT3 cellobiose

NT3 lactose

NT3 maltose

NT3 saccharose

NT2 raffinose

NT1 polysaccharides

NT2 agar

NT2 alginic acid

NT2 cellophane

NT2 cellulose

NT2 dextran

NT2 dextrin

NT2 glycogen

NT2 gum acacia

NT2 hemicellulose

NT3 xylans

NT2 inulin

NT2 lignin

NT2 lipopolysaccharides

NT2 mucopolysaccharides

NT3 chitin

NT3 chondroitin

NT3 heparin

NT3 hyaluronic acid

NT2 mucoproteins

NT3 haptoglobins

NT3 intrinsic factor

NT3 phytohemagglutinin

NT2 nitrocellulose

NT2 pectins

NT2 rayon

NT2 starch

NT2 viscose

NT2 xanthan gum

RT glycolysis

RT hyperglycemia

RT molasses

RT sugar industry

**SACCHARIFICATION**

INIS: 2000-04-12; ETDE: 1980-06-06

*Hydrolysis into a simple soluble fermentable sugar.*

(Prior to June 1980 this concept in ETDE was indexed by HYDROLYSIS.)

\*BT1 hydrolysis

RT fermentation

**SACCHARIN**

\*BT1 organic oxygen compounds

\*BT1 thiazoles

**SACCHAROMYCES**

\*BT1 yeasts

NTI saccharomyces cerevisiae

**SACCHAROMYCES CEREVISIAE**

\*BT1 saccharomyces

**SACCHAROSE**

UF sucrose

UF sugar

\*BT1 disaccharides

RT sugar industry

**saclay (cea)**

USE cea saclay

**SACLAY LINAC**

\*BT1 linear accelerators

**saclay synchrotron**

USE saturne

**sacramento rancho seco-1 reactor**

INIS: 1993-11-09; ETDE: 2002-06-13

USE rancho seco-1 reactor

**sacramento rancho seco-2 reactor**

INIS: 1993-11-09; ETDE: 2002-06-13

USE rancho seco-2 reactor

**SADDLE-POINT METHOD**

BT1 calculation methods

RT mathematics

**SAFARI-1 REACTOR**

South African Nuclear Energy Corporation,  
Pretoria, South Africa.

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**safe low power critical experiment**

INIS: 1979-12-20; ETDE: 1980-01-24

USE slowpoke type reactors

**SAFEGUARD REGULATIONS**

\*BT1 regulations

RT nuclear materials possession

RT safeguards

**SAFEGUARDS**

1998-06-10

Those measures designed to guard against the diversion of material such as source and special nuclear material from uses permitted by law or treaty, and to give timely indication of possible diversion or credible assurance that no diversion has occurred.

NTI domestic safeguards

NTI iaea safeguards

RT abacc

RT accounting

RT atomic energy control

RT ctbt

RT ctbto

RT denatured fuel

RT detection

RT identification systems

RT inspection

RT intrusion detection systems

RT inventories

RT legal aspects

RT losses

RT material balance area

RT material unaccounted for

RT motion detection systems

RT non-proliferation treaty

RT nuclear disarmament

RT nuclear materials diversion

RT nuclear materials management

RT nuclear materials possession

RT physical protection

RT physical protection devices

RT proliferation

RT safeguard regulations

RT security personnel

RT security seals

RT strategic points

RT vulnerability

**SAFETY**

1997-06-17

For general aspects of safety and protection of personnel.

UF protection

UF protection (safety)

NTI occupational safety

NTI reactor safety

RT accidents

RT alara

RT civil defense

RT damage

RT emergency plans

RT engineered safety systems

RT ethical aspects

RT failures

RT fire detectors

RT fire extinguishers

RT fire fighting

RT fire prevention

RT hazards

RT health hazards

RT human factors

RT human factors engineering

RT injuries

RT mine rescue

RT personnel

RT quality assurance

RT quality control

RT radiation protection

RT sabotage

RT safety analysis

RT safety engineering

RT safety reports

RT safety showers

RT safety standards

RT security

RT us occupational safety and health act

RT working conditions

**safety (nuclear)**

USE radiation protection

**safety (reactor)**

2000-04-12

USE reactor safety

**SAFETY ANALYSIS**

INIS: 1976-12-08; ETDE: 1991-03-07

RT deterministic estimation

RT licensing regulations

RT probabilistic estimation

RT public relations

RT risk assessment

RT safety

RT safety reports

**SAFETY CULTURE**

2003-01-17

That group of attitudes and characteristics which establishes that safety issues receive significant attention.

UF culture (safety)

UF nuclear safety culture

BT1 attitudes

RT behavior

RT education

RT ethical aspects

RT human factors

RT quality assurance

RT reactor maintenance

RT reactor operation

RT reactor operators

RT safety engineering

**SAFETY ENGINEERING**

1999-07-06

BT1 engineering

RT alarm systems

RT engineered safety systems

RT fires

RT freeze protection

RT hazards

RT human factors

RT pressure release

RT reactor safety

RT safety

RT safety culture

RT safety margins

RT seismic isolation

RT smoke detectors

RT systems analysis

**SAFETY INJECTION**

1995-05-02

UF boron injection

RT eccs

RT reactor protection systems

**SAFETY MARGINS**

INIS: 2004-11-26; ETDE: 2004-12-01

Differences between ordinary safe operating conditions and the conditions where the device or component will fail.

RT engineered safety systems

RT reactor safety

RT reliability

RT risk assessment

RT safety engineering

RT safety standards

**safety of life at sea convention**

INIS: 1984-06-21; ETDE: 2002-06-13

USE solas convention

**SAFETY REPORTS**

INIS: 1976-12-08; ETDE: 1991-03-07

For items about safety reports, not for items which are safety reports.

UF design reports

RT document types

RT licensing regulations

RT safety

RT safety analysis

**safety research experiment facility reactor**

INIS: 1993-11-09; ETDE: 1976-08-24

USE saref reactor

**safety rods**

USE scram rods

**SAFETY SHOWERS**

UF emergency showers

UF showers (safety)

RT burns

RT decontamination

RT first aid

RT hazards

RT radiation protection

RT safety

RT washing

**SAFETY STANDARDS**

- UF standards (safety)*  
**BT1** standards  
**NT1** annual limit of intake  
**NT1** dose limits  
**NT1** maximum acceptable contamination  
**NT1** maximum inhalation quantity  
**NT1** maximum permissible activity  
**NT1** maximum permissible body burden  
**NT1** maximum permissible concentration  
**NT1** maximum permissible dose  
**NT1** maximum permissible exposure  
**NT1** maximum permissible intake  
**NT1** maximum permissible level  
*RT* federal radiation council  
*RT* gesellschaft fuer anlagen- und reaktorsicherheit  
*RT* legal aspects  
*RT* licensing  
*RT* radiation protection  
*RT* radiation protection laws  
*RT* reactor safety  
*RT* recommendations  
*RT* regulations  
*RT* retrofitting  
*RT* safety  
*RT* safety margins  
*RT* standardization

**safety test facility reactor**

- INIS: 1977-06-13; ETDE: 1976-11-17*  
*USE* stf reactor

**safety valves**

- INIS: 1976-02-05; ETDE: 1985-03-12*  
*USE* relief valves

**SAGINAW RIVER**

- INIS: 2000-04-12; ETDE: 1980-12-08*  
**\*BT1** rivers  
*RT* hydroelectric power plants  
*RT* michigan

**SAHA EQUATION**

- UF saha-langmuir equation*  
**BT1** equations  
*RT* electric discharges  
*RT* thermodynamics

**saha-langmuir equation**

- USE* saha equation

**SAILS**

- INIS: 2000-04-12; ETDE: 1981-08-21*  
*RT* ships  
*RT* wind

**SAINT ALBAN-1 REACTOR**

- INIS: 1984-07-20; ETDE: 1984-09-05*  
**\*BT1** pwr type reactors

**SAINT ALBAN-2 REACTOR**

- INIS: 1984-07-20; ETDE: 1984-09-05*  
**\*BT1** pwr type reactors

**SAINT CLAIR RIVER**

- 2000-04-12  
**\*BT1** rivers  
*RT* canada  
*RT* michigan

**SAINT JOHN RIVER**

- INIS: 2000-04-12; ETDE: 1975-10-28*  
**\*BT1** rivers  
*RT* canada

**SAINT KITTS AND NEVIS**

- INIS: 1997-09-25; ETDE: 1998-02-24*  
**\*BT1** lesser antilles

**SAINT LAURENT-1 REACTOR**

- St. Laurent des Eaux, Loir et Cher, France.*  
*UF edf-4 reactor*  
**\*BT1** carbon dioxide cooled reactors  
**\*BT1** ger type reactors  
**\*BT1** power reactors  
**\*BT1** thermal reactors

**SAINT LAURENT-2 REACTOR**

- St. Laurent des Eaux, Loir et Cher, France.*  
**\*BT1** carbon dioxide cooled reactors  
**\*BT1** ger type reactors  
**\*BT1** power reactors  
**\*BT1** thermal reactors

**SAINT LAURENT-B1 REACTOR**

- 1995-10-02  
**\*BT1** pwr type reactors

**saint lawrence river**

- INIS: 2000-04-12; ETDE: 1980-01-15*  
*USE* st lawrence river

**SAINT LUCIA**

- INIS: 1990-06-25; ETDE: 1990-08-02*  
**BT1** developing countries  
**BT1** latin america  
**\*BT1** west indies

**SAINT VINCENT AND THE GRENADINES**

- INIS: 1992-04-24; ETDE: 1992-06-23*  
**BT1** developing countries  
**BT1** latin america  
**\*BT1** west indies

**saitama cyclotron**

- INIS: 1983-06-01; ETDE: 1983-07-07*  
*USE* ipcr cyclotron

**saitama tunable heavy ion linac**

- INIS: 1986-05-23; ETDE: 2002-06-13*  
*USE* rilac

**salam hypothesis**

- USE* lee-yang theory

**salam-weinberg gauge model**

- INIS: 1995-08-10; ETDE: 1995-11-29*  
*USE* weinberg-salam gauge model

**SALAMANDERS**

- 1996-11-13  
(Prior to March 1997 AXOLOTL was a valid ETDE descriptor.)  
*UF axolotl*  
*UF newts*  
*UF siredon*  
**\*BT1** amphibians  
**NT1** triturus  
*RT* frogs

**salary**

- INIS: 1992-10-05; ETDE: 1983-06-20*  
*USE* wages

**salazar triga-mk-3 reactor**

- INIS: 1984-06-21; ETDE: 2002-06-13*  
*USE* triga-3-salazar reactor

**SALLEITE**

- \*BT1** phosphate minerals  
**\*BT1** uranium minerals  
*RT* magnesium phosphates  
*RT* uranium phosphates

**SALEM-1 REACTOR**

- PSEG Nuclear, LLC, Salem, New Jersey, USA.*  
*UF salem nuclear generating station unit-1*  
**\*BT1** pwr type reactors

**SALEM-2 REACTOR**

- PSEG Nuclear, LLC, Salem, New Jersey, USA.*  
*UF salem nuclear generating station unit-2*  
**\*BT1** pwr type reactors

**salem nuclear generating station unit-1**

- 1993-11-09  
*USE* salem-1 reactor

**salem nuclear generating station unit-2**

- 1993-11-09  
*USE* salem-2 reactor

**SALES**

- INIS: 1999-03-04; ETDE: 1979-05-09*  
(Until March 1999 this concept was indexed by TRADE.)  
*SF commodities*  
*RT* competition  
*RT* exports  
*RT* imports  
*RT* marketing  
*RT* trade

**SALICYLIC ACID**

- 1996-10-23  
*UF hydroxybenzoic acid-ortho*  
**\*BT1** hydroxy acids

**SALINITY**

- RT* brines  
*RT* desalination  
*RT* estuaries  
*RT* fiords  
*RT* salinity gradients  
*RT* salts  
*RT* seawater

**SALINITY GRADIENT POWER PLANTS**

- INIS: 2000-04-12; ETDE: 1977-09-19*  
*UF osmotic power plants*  
**\*BT1** solar power plants  
*RT* seawater

**SALINITY GRADIENTS**

- INIS: 2000-04-12; ETDE: 1977-09-19*  
*RT* salinity  
*RT* seawater

**SALIVA**

- \*BT1** body fluids  
*RT* amylase  
*RT* salivary glands

**SALIVARY GLANDS**

- \*BT1** glands  
*RT* oral cavity  
*RT* saliva

**salmin**

- 1996-07-08  
(Until June 1996 this was a valid descriptor.)  
*USE* protamines

**SALMON**

- \*BT1** anadromous fishes

**SALMON EVENT**

- BT1** vela project

**SALMONELLA**

- 1996-07-18  
**\*BT1** bacteria  
**NT1** salmonella typhimurium  
*RT* typhoid

**SALMONELLA TYPHIMURIUM**

\*BT1 salmonella

**salsola kali**

INIS: 2000-04-12; ETDE: 1981-04-17

(Prior to March 1997 TUMBLEWEEDS was used for this concept in ETDE.)

USE magnoliopsida

**SALT CAVERNS**

INIS: 1983-02-03; ETDE: 1979-04-11

BT1 cavities

RT caves

RT gorleben salt dome

RT morsleben salt mine

RT radioactive waste disposal

RT salt deposits

**SALT DEPOSITS**

1997-06-19

UF rock salt

BT1 geologic deposits

RT anticlines

RT asse salt mine

RT gorleben salt dome

RT halite

RT morsleben salt mine

RT radioactive waste disposal

RT salt caverns

RT salt vault project

RT underground disposal

RT wipp

**SALT TALKS**

INIS: 1993-01-26; ETDE: 1986-02-03

RT arms control

RT foreign policy

RT international relations

RT nuclear disarmament

RT treaties

**salt transport process**

INIS: 1980-07-24; ETDE: 1979-12-10

USE pyrochemical reprocessing

**SALT VAULT PROJECT**

UF project salt vault

RT radioactive wastes

RT salt deposits

RT waste disposal

**saltex process**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE purex process

**SALTING-OUT AGENTS**

RT precipitation

RT solvent extraction

**SALTON SEA**

2000-04-12

\*BT1 lakes

RT geothermal fields

RT imperial valley

RT salton sea geothermal field

**SALTON SEA GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1975-07-29

BT1 geothermal fields

RT california

RT salton sea

**SALTS**

See also descriptors for specific salts.

NT1 molten salts

NT2 flibe

RT brines

RT desalination

RT salinity

**SALYUT ORBITAL STATIONS**

BT1 satellites

\*BT1 space vehicles

**SAMARIUM**

\*BT1 rare earths

RT samarium oscillations

**SAMARIUM 128**

2007-04-20

\*BT1 even-even nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

**SAMARIUM 129**

2007-04-20

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

**SAMARIUM 130**

2006-12-20

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

\*BT1 seconds living radioisotopes

**SAMARIUM 131**

INIS: 1987-02-25; ETDE: 1987-05-01

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

\*BT1 seconds living radioisotopes

**SAMARIUM 132**

2007-04-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

\*BT1 seconds living radioisotopes

**SAMARIUM 133**

INIS: 1977-06-13; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

\*BT1 seconds living radioisotopes

**SAMARIUM 134**

INIS: 1977-06-13; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

\*BT1 seconds living radioisotopes

**SAMARIUM 135**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

\*BT1 seconds living radioisotopes

**SAMARIUM 136**

INIS: 1982-08-27; ETDE: 1982-07-08

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

\*BT1 seconds living radioisotopes

**SAMARIUM 137**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

\*BT1 seconds living radioisotopes

**SAMARIUM 138**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

**SAMARIUM 139**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

\*BT1 seconds living radioisotopes

**SAMARIUM 140**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

**SAMARIUM 141**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

**SAMARIUM 142**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hours living radioisotopes

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

**SAMARIUM 143**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

**SAMARIUM 144**

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

\*BT1 stable isotopes

**SAMARIUM 144 REACTIONS**

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 heavy ion reactions

**SAMARIUM 144 TARGET**

ETDE: 1976-07-09

BT1 targets

**SAMARIUM 145**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 internal conversion radioisotopes

\*BT1 rare earth nuclei

\*BT1 samarium isotopes



**SAMARIUM 145 TARGET***INIS: 1975-10-23; ETDE: 1976-07-09*

BT1 targets

**SAMARIUM 146**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 years living radioisotopes

**SAMARIUM 146 TARGET***INIS: 1975-12-19; ETDE: 1976-07-12*

BT1 targets

**SAMARIUM 147**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 years living radioisotopes

**SAMARIUM 147 TARGET***ETDE: 1976-07-09*

BT1 targets

**SAMARIUM 148**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes
- \*BT1 years living radioisotopes

**SAMARIUM 148 TARGET***ETDE: 1976-07-09*

BT1 targets

**SAMARIUM 149**

- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 149 TARGET***ETDE: 1976-07-09*

BT1 targets

**SAMARIUM 150**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 150 TARGET***ETDE: 1976-07-09*

BT1 targets

**SAMARIUM 151**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 years living radioisotopes

**SAMARIUM 151 TARGET***ETDE: 1976-07-09*

BT1 targets

**SAMARIUM 152**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 152 TARGET***ETDE: 1976-07-09*

BT1 targets

**SAMARIUM 153**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 samarium isotopes

**SAMARIUM 154**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 154 REACTIONS***INIS: 1980-07-24; ETDE: 1980-08-12*

\*BT1 heavy ion reactions

**SAMARIUM 154 TARGET***ETDE: 1976-07-09*

BT1 targets

**SAMARIUM 155**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 156**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 157**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 158**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 159***INIS: 1986-10-29; ETDE: 1986-11-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 seconds living radioisotopes

**SAMARIUM 160***INIS: 1986-10-29; ETDE: 1986-11-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 seconds living radioisotopes

**SAMARIUM 161***2007-04-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 seconds living radioisotopes

**SAMARIUM 162***2007-04-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 seconds living radioisotopes

**SAMARIUM 163***2007-04-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 164***2007-04-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 165***2007-04-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM ADDITIONS***Alloys containing not more than 1% Sm are listed here.*

- \*BT1 rare earth additions
- \*BT1 samarium alloys

**SAMARIUM ALLOYS***Alloys containing more than 1% Sm.*

- \*BT1 rare earth alloys
- NT1 samarium additions
- NT1 samarium base alloys

**SAMARIUM ARSENIDES***INIS: 2000-04-12; ETDE: 1977-03-04*

- \*BT1 arsenides
- \*BT1 samarium compounds

**SAMARIUM BASE ALLOYS**

- \*BT1 samarium alloys

**SAMARIUM BORIDES**

- \*BT1 borides
- \*BT1 samarium compounds

**SAMARIUM BROMIDES**

- \*BT1 bromides
- \*BT1 samarium compounds

**SAMARIUM CARBIDES**

- \*BT1 carbides
- \*BT1 samarium compounds

**SAMARIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 samarium compounds

**SAMARIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 samarium compounds

**SAMARIUM COMPLEXES**

- \*BT1 rare earth complexes

**SAMARIUM COMPOUNDS***1997-06-19*

- BT1 rare earth compounds
- NT1 samarium arsenides
- NT1 samarium borides
- NT1 samarium bromides
- NT1 samarium carbides
- NT1 samarium carbonates
- NT1 samarium chlorides
- NT1 samarium fluorides
- NT1 samarium hydrides
- NT1 samarium hydroxides
- NT1 samarium iodides
- NT1 samarium nitrates
- NT1 samarium nitrides
- NT1 samarium oxides
- NT1 samarium perchlorates
- NT1 samarium phosphates
- NT1 samarium phosphides
- NT1 samarium selenides
- NT1 samarium silicates
- NT1 samarium silicides
- NT1 samarium sulfates
- NT1 samarium sulfides

NT1 samarium tellurides  
NT1 samarium tungstates

**samarium effect**

2000-04-12

USE samarium oscillations

**SAMARIUM FLUORIDES**

\*BT1 fluorides  
\*BT1 samarium compounds

**SAMARIUM HYDRIDES**

\*BT1 hydrides  
\*BT1 samarium compounds

**SAMARIUM HYDROXIDES**

\*BT1 hydroxides  
\*BT1 samarium compounds

**SAMARIUM IODIDES**

\*BT1 iodides  
\*BT1 samarium compounds

**SAMARIUM IONS**

\*BT1 ions

**SAMARIUM ISOTOPES**

BT1 isotopes  
NT1 samarium 128  
NT1 samarium 129  
NT1 samarium 130  
NT1 samarium 131  
NT1 samarium 132  
NT1 samarium 133  
NT1 samarium 134  
NT1 samarium 135  
NT1 samarium 136  
NT1 samarium 137  
NT1 samarium 138  
NT1 samarium 139  
NT1 samarium 140  
NT1 samarium 141  
NT1 samarium 142  
NT1 samarium 143  
NT1 samarium 144  
NT1 samarium 145  
NT1 samarium 146  
NT1 samarium 147  
NT1 samarium 148  
NT1 samarium 149  
NT1 samarium 150  
NT1 samarium 151  
NT1 samarium 152  
NT1 samarium 153  
NT1 samarium 154  
NT1 samarium 155  
NT1 samarium 156  
NT1 samarium 157  
NT1 samarium 158  
NT1 samarium 159  
NT1 samarium 160  
NT1 samarium 161  
NT1 samarium 162  
NT1 samarium 163  
NT1 samarium 164  
NT1 samarium 165

**SAMARIUM NITRATES**

\*BT1 nitrates  
\*BT1 samarium compounds

**SAMARIUM NITRIDES**

\*BT1 nitrides  
\*BT1 samarium compounds

**SAMARIUM OSCILLATIONS**

2000-04-12

*Effects of fission-product samarium on reactor operation.*

UF samarium effect  
BT1 poisoning  
RT nuclear poisons

RT oscillations  
RT reactor poison removal  
RT samarium

**SAMARIUM OXIDES**

\*BT1 oxides  
\*BT1 samarium compounds

**SAMARIUM PERCHLORATES**

1991-09-16

\*BT1 perchlorates  
\*BT1 samarium compounds

**SAMARIUM PHOSPHATES**

\*BT1 phosphates  
\*BT1 samarium compounds

**SAMARIUM PHOSPHIDES**

INIS: 1979-04-27; ETDE: 1979-05-25

\*BT1 phosphides  
\*BT1 samarium compounds

**SAMARIUM SELENIDES**

INIS: 1980-02-26; ETDE: 1977-08-24

\*BT1 samarium compounds  
\*BT1 selenides

**SAMARIUM SILICATES**

\*BT1 samarium compounds  
\*BT1 silicates

**SAMARIUM SILICIDES**

INIS: 1975-10-29; ETDE: 1975-12-16

\*BT1 samarium compounds  
\*BT1 silicides

**SAMARIUM SULFATES**

\*BT1 samarium compounds  
\*BT1 sulfates

**SAMARIUM SULFIDES**

\*BT1 samarium compounds  
\*BT1 sulfides

**SAMARIUM TELLURIDES**

INIS: 1977-10-17; ETDE: 1976-08-24

\*BT1 samarium compounds  
\*BT1 tellurides

**SAMARIUM TUNGSTATES**

INIS: 1980-02-26; ETDE: 1976-11-01

\*BT1 samarium compounds  
\*BT1 tungstates

**SAMPLE CHANGERS**

RT laboratory equipment  
RT materials handling  
RT remote handling  
RT sample holders

**SAMPLE HOLDERS**

INIS: 1976-03-25; ETDE: 1975-11-28

UF specimen holders  
UF target holders  
RT remote handling  
RT sample changers

**SAMPLE PREPARATION**

UF preparation (sample)  
RT ceramography  
RT dry ashing  
RT electron microscopy  
RT surface treatments  
RT wet ashing

**SAMPLERS**

1999-07-07

BT1 equipment  
NT1 air samplers  
RT filters  
RT sampling

**SAMPLING**

RT elutriation

RT inspection  
RT quality control  
RT samplers  
RT testing  
RT ultrafiltration

**SAN ANTONIO BAY**

2000-04-12

\*BT1 gulf of mexico  
RT texas

**SAN BERNARDINO MOUNTAINS**

2000-04-12

BT1 mountains  
RT california

**SAN FRANCISCO BAY**

\*BT1 pacific ocean  
RT california

**san juan power plant**

INIS: 2000-04-12; ETDE: 1976-12-16

(Prior to January 1995, this was a valid ETDE descriptor.)

USE fossil-fuel power plants

**SAN MARINO**

2000-05-03

BT1 developed countries  
\*BT1 western europe  
RT italy

**SAN ONOFRE-1 REACTOR***Southern California Edison Co., San Clemente, California, USA. Shut down permanently in 1992.*

\*BT1 pwr type reactors

**SAN ONOFRE-2 REACTOR***Southern California Edison Co., San Clemente, California, USA.*

\*BT1 pwr type reactors

**SAN ONOFRE-3 REACTOR***Southern California Edison Co., San Clemente, California, USA.*

\*BT1 pwr type reactors

**san piero a grado pisa reactor**

USE rts-1 reactor

**SANCTIONS**

INIS: 2000-04-12; ETDE: 1979-12-10

BT1 administrative procedures

**SAND**

(From August 1984 till February 1997 DUNES was a valid ETDE descriptor.)

SF dunes

NT1 black sands

NT1 oil sands

RT alluvial deposits

RT aquifers

RT building materials

RT clays

RT concretes

RT deserts

RT reefs

RT reservoir rock

RT sandstones

RT silicon oxides

RT soils

**SAND CONSOLIDATION**

INIS: 2000-04-12; ETDE: 1981-05-18

UF consolidation (sand)

RT natural gas wells

RT oil wells

RT well completion

**sand pressure**

INIS: 1986-07-09; ETDE: 1978-09-11

USE reservoir pressure

**SAND WASH BASIN**

2000-04-12

- \*BT1 colorado
- RT green river formation
- RT oil shale deposits

**SANDIA LABORATORIES**

Name changed to Sandia National Laboratories, and more recent material should be so indexed.

- \*BT1 sandia national laboratories
- \*BT1 us aec
- \*BT1 us erda
- RT california
- RT new mexico
- RT tonopah test range

**SANDIA NATIONAL LABORATORIES**

INIS: 1984-04-04; ETDE: 1994-08-18

Formerly known as Sandia Laboratories, and older material is so indexed.

- \*BT1 us doe
- NT1 sandia laboratories
- RT california
- RT new mexico
- RT tonopah test range

**sandia pulse reactor-4**

INIS: 2000-04-12; ETDE: 1982-08-11

- USE spr-4 reactor

**sandia pulsed reactor-ii**

- USE spr-2 reactor

**sandia pulsed reactor-iii**

INIS: 1984-06-21; ETDE: 2002-06-13

- USE spr-3 reactor

**sandia pulsed reactor-iv**

INIS: 1984-06-21; ETDE: 2002-06-13

- USE spr-4 reactor

**SANDSTONE PROJECT**

INIS: 2000-04-12; ETDE: 1986-11-20

- \*BT1 nuclear explosions

**SANDSTONES**

- UF siliceous rock
- UF tight sands
- \*BT1 sedimentary rocks
- NT1 graywacke
- RT interstitial water
- RT montroseite
- RT quartzites
- RT sand
- RT siltstones

**sandvik-ht8x6**

ETDE: 2002-06-13

- USE steel-cr2moninb

**sanicro 30**

INIS: 1996-07-23; ETDE: 1978-12-20

(Until July 1996 this was a valid descriptor.)

- USE alloy-fe46ni33cr21

**sanicro 70**

INIS: 1983-11-07; ETDE: 2002-06-13

- USE alloy-ni76cr15fe8

**SANITARY LANDFILLS**

INIS: 1982-09-21; ETDE: 1975-09-11

Sites for biologically safe disposal of wastes by burial.

- UF landfills
- UF landfills
- \*BT1 waste disposal
- RT ground disposal
- RT landfill gas
- RT us superfund

**SANTA BARBARA CHANNEL**

INIS: 1992-06-16; ETDE: 1977-01-28

- \*BT1 pacific ocean
- RT california
- RT continental shelf

**santa maria de garona nuclear power plant**

1995-02-20

- USE garona reactor

**santa maria de garona power reactor**

1993-11-09

- USE garona reactor

**SANTA ROSA DEPOSIT**

INIS: 2000-04-12; ETDE: 1983-07-07

- \*BT1 oil sand deposits
- RT new mexico
- RT oil sands

**SANTEE RIVER**

INIS: 2000-04-12; ETDE: 1977-08-09

- \*BT1 rivers
- RT south carolina

**santowax**

1996-07-08

(Until June 1996 this was a valid descriptor.)

- USE polyphenyls
- USE waxes

**sao paulo iea zero power reactor**

INIS: 1993-11-09; ETDE: 2002-06-13

- USE iea-zpr reactor

**sao paulo iear-1 reactor**

INIS: 1985-12-10; ETDE: 2002-06-13

- USE iear-1 reactor

**sap (sintered aluminium powders)**

ETDE: 2005-02-01

(Prior to January 2005 SAP was a valid descriptor.)

- USE sintered aluminium powders

**SAPHIR REACTOR**

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 thermal reactors

**SAPONIFICATION**

- \*BT1 hydrolysis

**SAPONINS**

- \*BT1 glycosides

**SAPPHIRE**

1976-05-05

- \*BT1 corundum

**SAPROPELIC COAL**

INIS: 2000-04-12; ETDE: 1978-05-03

- \*BT1 coal
- NT1 boghead coal
- NT2 torbanite
- NT1 cannel coal

**sar-2 reactor**

Schnell-Thermischen Argonaut Reaktor Karlsruhe.

- USE stark reactor

**SARA CYCLOTRON**

INIS: 1984-06-25; ETDE: 1984-02-10

Systeme Accelérateur Rhone-Alpes -- consists of two cyclotrons, the injector cyclotron and the post-accelerator cyclotron.

- UF systeme accelérateur rhone-alpes
- \*BT1 isochronous cyclotrons

**SARCODINA**

INIS: 1992-04-27; ETDE: 1981-06-17

- \*BT1 protozoa
- NT1 amoeba
- NT1 foraminifera

**SARCOMAS**

UF chondrosarcomas

- \*BT1 neoplasms
- NT1 fibrosarcomas
- NT1 lymphosarcomas
- NT1 myosarcomas
- NT2 rhabdomyosarcomas
- NT1 osteosarcomas

**SARCOPLASMIC RETICULUM**

INIS: 2000-04-12; ETDE: 1982-02-09

- \*BT1 endoplasmic reticulum
- RT muscles

**SARCOSINE**

UF methyl glyocoll

- UF methylaminoacetic acid
- \*BT1 amino acids
- RT glycine

**SAREF REACTOR**

INIS: 1977-01-26; ETDE: 1976-08-24

INEL, Idaho Falls, Idaho, USA.

- UF inel safety research experimental facility reactor
- UF safety research experiment facility reactor
- \*BT1 fast reactors
- \*BT1 zero power reactors

**SARGASSO SEA**

- \*BT1 atlantic ocean

**sarson**

- USE brassica

**SASKATCHEWAN**

1996-07-16

(Prior to August 1996 BEAVERLODGE was a valid ETDE descriptor.)

- UF beaverlodge
- \*BT1 canada
- RT athabasca lake
- RT beaverlodge mine
- RT cluff lake mine
- RT cold lake deposit
- RT key lake mine
- RT williston basin

**SASOL-II PROCESS**

INIS: 2000-04-12; ETDE: 1980-03-04

Liquefaction process based on Lurgi pressure gasification. Fischer-Tropsch synthesis and Rectisol process using circulating fluid bed reactors to produce gasoline and other refined products.

- \*BT1 coal liquefaction
- RT fischer-tropsch synthesis
- RT lurgi process
- RT rectisol process

**SASOL PROCESS**

2000-04-12

South African Coal, Oil, and Gas Co. Ltd. Process for indirect conversion of coal to synthetic crude oil by complete gasification to CO and H followed by Fisher-Tropsch synthesis.

- \*BT1 coal liquefaction

**SATELLITE ATMOSPHERES**

INIS: 1981-11-25; ETDE: 1982-01-07

For atmospheres of the natural satellites.

- BT1 atmospheres
- NT1 lunar atmosphere

**satellite power system**

INIS: 1993-02-18; ETDE: 1979-05-02  
USE orbital solar power plants

**satellite solar power stations**

INIS: 2000-04-12; ETDE: 1979-05-25  
USE orbital solar power plants

**SATELLITES**

1996-01-24

NT1 alouette satellites  
NT1 ariel satellites  
NT1 astron satellites  
NT1 ats satellites  
NT1 biosatellites  
NT1 explorer satellites  
NT1 geos satellites  
NT1 goes satellites  
NT1 imp satellites  
NT1 interkosmos satellites  
NT1 kosmos satellites  
NT1 landsat satellites  
NT1 mir orbital station  
NT1 molniya satellites  
NT1 moon  
NT1 nimbus satellites  
NT1 ogo satellites  
NT1 orbiting solar observatories  
NT1 power relay satellites  
NT1 prognoz satellites  
NT1 proton satellites  
NT1 saljut orbital stations  
NT1 seasat satellites  
NT1 skylab  
RT global positioning system  
RT international space station  
RT orbital solar power plants  
RT remote sensing  
RT space flight  
RT space vehicles

**saturable core magnetometers**

USE fluxgate magnetometers

**SATURATION**

NT1 gas saturation  
NT1 oil saturation  
NT1 supersaturation  
NT1 water saturation  
RT solubility  
RT solutions

**SATURN PLANET**

BT1 planets

**SATURNE**

UF saclay synchrotron  
\*BT1 synchrotrons

**SATURNE II**

INIS: 1979-12-20; ETDE: 1980-01-24  
\*BT1 synchrotrons

**SAUDI ARABIA**

BT1 arab countries  
BT1 asia  
BT1 developing countries  
BT1 middle east  
RT oapec  
RT opec

**SAUSAGE INSTABILITY**

\*BT1 plasma macroinstabilities

**savannah (nuclear ship)**

USE ns savannah

**savannah pressurized subcritical experiment**

1993-11-09

USE pse reactor

**SAVANNAH REACTOR**

US AEC/US DOC/USA Maritime Commission.  
Permanently shut down; decommissioned in 1972.

UF nuclear ship savannah reactor  
\*BT1 pwr type reactors  
\*BT1 ship propulsion reactors  
RT ns savannah

**SAVANNAH RIVER**

\*BT1 rivers  
RT georgia  
RT south carolina

**savannah river lab rtr reactor**

USE rtr reactor

**SAVANNAH RIVER PLANT**

SF east facility  
SF energy applied systems test facility  
\*BT1 us aec  
\*BT1 us doe  
\*BT1 us erda  
RT south carolina

**savannah river plant c reactor**

INIS: 1993-11-09; ETDE: 1983-11-23  
USE c reactor

**savannah river plant k reactor**

1993-11-09  
USE k reactor

**savannah river plant l reactor**

INIS: 1993-11-09; ETDE: 1982-05-12  
USE l reactor

**savannah river plant p reactor**

1993-11-09  
USE p reactor

**savannah river plant r reactor**

1993-11-09  
USE r reactor

**savannah river process development reactor**

1993-11-09  
USE pdp reactor

**savannah river test pile-305**

USE sr-305 reactor

**SAVANNAS**

INIS: 2000-04-12; ETDE: 1986-10-07  
Distinct biomes characterized by grassland with interspersed trees.

\*BT1 terrestrial ecosystems  
RT arid lands  
RT tropical regions

**SAVONIUS ROTORS**

INIS: 2000-04-12; ETDE: 1976-02-19  
BT1 rotors  
RT vertical axis turbines

**sawada method**

USE goldstone diagrams

**SAWTOOTH OSCILLATIONS**

INIS: 1988-11-16; ETDE: 1988-12-05  
BT1 oscillations  
RT kink instability  
RT magnetic reconnection  
RT plasma  
RT plasma confinement  
RT plasma disruption  
RT rotational transform  
RT stellarators  
RT tokamak devices

**saxon-woods potential**

USE woods-saxon potential

**SAXTON REACTOR**

Westinghouse Reactor Evaluation Center, Waltz Mill, Pennsylvania, USA. Shut down in 1972; decommissioned in 1996.

\*BT1 pwr type reactors

**SBR-1 REACTOR**

Obninsk, Russian Federation.

UF br-1 reactor (russian federation)  
UF soviet breeder reactor-1  
\*BT1 enriched uranium reactors  
\*BT1 lmfr type reactors  
\*BT1 plutonium reactors  
\*BT1 research reactors

**SBR-2 REACTOR**

Obninsk, Russian Federation.

UF br-2 reactor (russian federation)  
UF soviet breeder reactor-2  
\*BT1 lmfr type reactors  
\*BT1 mercury cooled reactors  
\*BT1 plutonium reactors  
\*BT1 research reactors

**SBR-5 REACTOR**

Obninsk, Russian Federation.

UF br-5 reactor (russian federation)  
UF soviet breeder reactor-5  
\*BT1 lmfr type reactors  
\*BT1 plutonium reactors  
\*BT1 research reactors  
\*BT1 sodium cooled reactors  
\*BT1 test reactors

**sca model**

INIS: 1984-04-04; ETDE: 2002-06-13  
SemiClassical Approximation model.  
USE semiclassical approximation

**SCALAR FIELDS**

RT quantum field theory

**SCALAR MESONS**

Mesons with spin and parity 0+.

\*BT1 mesons  
NT1 a0-980 mesons  
NT1 chi0-3415 mesons  
NT1 f0-1240 mesons  
NT1 f0-1300 mesons  
NT1 f0-1590 mesons  
NT1 f0-1730 mesons  
NT1 f0-980 mesons  
NT1 k\*0-1430 mesons  
RT sigma model

**SCALARS**

RT mathematics  
RT pseudoscalars  
RT tensors

**SCALE CONTROL**

INIS: 1999-05-12; ETDE: 1978-05-03

BT1 control  
RT corrosion protection  
RT descaling  
RT scaling

**SCALE DIMENSION**

A natural number characteristic of the scale-transformation properties of a given quantum field.

NT1 anomalous dimension  
NT1 canonical dimension  
RT conformal invariance  
RT quantum field theory  
RT scale invariance

**SCALE HEIGHT**

2000-05-23

*Measure of the relation between density and temperature of points in an atmosphere.*

- \*BT1 height
- RT ionosphere
- RT virtual height

**SCALE INVARIANCE**

- BT1 invariance principles
- RT conformal invariance
- RT particle rapidity
- RT scale dimension

**SCALE MODELS**

INIS: 1980-07-24; ETDE: 1980-02-11

*A three-dimensional representation of an object or structure containing all parts in the same proportion as their true size.*

- UF models (scale)
- BT1 structural models
- RT functional models
- RT mockup
- RT scaling laws
- RT simulators

**SCALERS**

- UF scaling units
- \*BT1 electronic equipment
- RT counting circuits
- RT counting tubes
- RT pulse techniques
- RT radiation detectors

**SCALING**

1999-05-18

*Forming a thick layer of metallic oxides on metals at high temperature. Also, depositing of solid inorganic solutes from water on a metal surface, such as a cooling tube or boiler.*

- RT corrosion
- RT corrosion products
- RT deposition
- RT descaling
- RT precipitation
- RT scale control

**SCALING LAWS**

- RT calibration
- RT mathematical models
- RT scale models
- RT simulation

**scaling units**

- USE scalars

**SCANDINAVIA**

1995-04-03

- \*BT1 western europe
- NT1 denmark
- NT1 finland
- NT1 norway
- NT1 sweden

**SCANDIUM**

- \*BT1 transition elements

**SCANDIUM 36**

2007-04-20

- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 proton decay radioisotopes
- \*BT1 scandium isotopes

**SCANDIUM 37**

2007-04-20

- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes
- \*BT1 scandium isotopes

**SCANDIUM 38**

2007-04-20

- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 proton decay radioisotopes
- \*BT1 scandium isotopes

**SCANDIUM 39**

1989-07-19

- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes
- \*BT1 scandium isotopes

**SCANDIUM 40**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 41**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 42**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes
- \*BT1 seconds living radioisotopes

**SCANDIUM 43**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 44**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 45**

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes
- \*BT1 stable isotopes

**SCANDIUM 45 REACTIONS**

INIS: 1980-11-28; ETDE: 1981-01-09

- \*BT1 heavy ion reactions

**SCANDIUM 45 TARGET**

ETDE: 1976-07-09

- BT1 targets

**SCANDIUM 46**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes
- \*BT1 seconds living radioisotopes

**SCANDIUM 47**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei

- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 47 TARGET**

INIS: 1992-09-23; ETDE: 1979-07-24

- BT1 targets

**SCANDIUM 48**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 49**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 50**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 51**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes
- \*BT1 seconds living radioisotopes

**SCANDIUM 52**

INIS: 1984-10-19; ETDE: 1976-05-13

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes
- \*BT1 seconds living radioisotopes

**SCANDIUM 53**

INIS: 1991-02-11; ETDE: 1981-01-30

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 54**

1991-02-11

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 55**

1991-02-11

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 56**

2007-04-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 57**

2005-03-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 58**

2005-03-11

- \*BT1 beta-minus decay radioisotopes

- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 59**

2007-04-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 60**

2007-04-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM ADDITIONS**

*Alloys containing not more than 1% Sc are listed here.*

- \*BT1 scandium alloys

**SCANDIUM ALLOYS**

1995-02-27

*Alloys containing more than 1% Sc.*

- \*BT1 transition element alloys
- NT1 scandium additions
- NT1 scandium base alloys

**SCANDIUM BASE ALLOYS**

- \*BT1 scandium alloys

**SCANDIUM BORIDES**

- \*BT1 borides
- \*BT1 scandium compounds

**SCANDIUM BROMIDES**

*INIS: 1976-08-17; ETDE: 1976-11-01*

- \*BT1 bromides
- \*BT1 scandium compounds

**SCANDIUM CARBIDES**

- \*BT1 carbides
- \*BT1 scandium compounds

**SCANDIUM CARBONATES**

*INIS: 2000-04-12; ETDE: 1989-03-20*

- \*BT1 carbonates
- \*BT1 scandium compounds

**SCANDIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 scandium compounds

**SCANDIUM COMPLEXES**

- \*BT1 transition element complexes

**SCANDIUM COMPOUNDS**

1997-06-19

- BT1 transition element compounds
- NT1 scandium borides
- NT1 scandium bromides
- NT1 scandium carbides
- NT1 scandium carbonates
- NT1 scandium chlorides
- NT1 scandium fluorides
- NT1 scandium hydrides
- NT1 scandium hydroxides
- NT1 scandium iodides
- NT1 scandium nitrates
- NT1 scandium nitrides
- NT1 scandium oxides
- NT1 scandium perchlorates
- NT1 scandium phosphates
- NT1 scandium phosphides
- NT1 scandium selenides
- NT1 scandium silicates
- NT1 scandium silicides
- NT1 scandium sulfates

- NT1 scandium sulfides
- NT1 scandium tungstates

**SCANDIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 scandium compounds

**SCANDIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 scandium compounds

**SCANDIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 scandium compounds

**SCANDIUM IODIDES**

- \*BT1 iodides
- \*BT1 scandium compounds

**SCANDIUM IONS**

- \*BT1 ions

**SCANDIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 scandium 36
- NT1 scandium 37
- NT1 scandium 38
- NT1 scandium 39
- NT1 scandium 40
- NT1 scandium 41
- NT1 scandium 42
- NT1 scandium 43
- NT1 scandium 44
- NT1 scandium 45
- NT1 scandium 46
- NT1 scandium 47
- NT1 scandium 48
- NT1 scandium 49
- NT1 scandium 50
- NT1 scandium 51
- NT1 scandium 52
- NT1 scandium 53
- NT1 scandium 54
- NT1 scandium 55
- NT1 scandium 56
- NT1 scandium 57
- NT1 scandium 58
- NT1 scandium 59
- NT1 scandium 60

**SCANDIUM NITRATES**

- \*BT1 nitrates
- \*BT1 scandium compounds

**SCANDIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 scandium compounds

**SCANDIUM OXIDES**

- \*BT1 oxides
- \*BT1 scandium compounds

**SCANDIUM PERCHLORATES**

*INIS: 2000-04-12; ETDE: 1977-11-28*

- \*BT1 perchlorates
- \*BT1 scandium compounds

**SCANDIUM PHOSPHATES**

*INIS: 1976-09-06; ETDE: 1976-11-01*

- \*BT1 phosphates
- \*BT1 scandium compounds

**SCANDIUM PHOSPHIDES**

*INIS: 1981-02-27; ETDE: 1980-10-07*

- \*BT1 phosphides
- \*BT1 scandium compounds

**SCANDIUM SELENIDES**

*INIS: 1996-07-23; ETDE: 1979-02-23*

(From July 1996 to November 2007 SCANDIUM COMPOUNDS + SELENIDES was used for this concept.)

- \*BT1 scandium compounds
- \*BT1 selenides

**SCANDIUM SILICATES**

- \*BT1 scandium compounds
- \*BT1 silicates

**SCANDIUM SILICIDES**

*INIS: 1978-05-19; ETDE: 1978-03-03*

- \*BT1 scandium compounds
- \*BT1 silicides

**SCANDIUM SULFATES**

- \*BT1 scandium compounds
- \*BT1 sulfates

**SCANDIUM SULFIDES**

- \*BT1 scandium compounds
- \*BT1 sulfides

**SCANDIUM TUNGSTATES**

*INIS: 1982-06-09; ETDE: 1982-07-08*

- \*BT1 scandium compounds
- \*BT1 tungstates

**scanners (beam)**

*INIS: 1984-04-04; ETDE: 2002-06-13*  
USE beam scanners

**scanners (image)**

USE image scanners

**scanners (optical)**

*INIS: 2000-04-12; ETDE: 1977-04-12*  
(Prior to March 1997 OPTICAL SCANNERS was used for this concept in ETDE.)  
USE image scanners  
USE optical equipment

**scanners (radioisotope)**

*INIS: 1984-04-04; ETDE: 2002-06-13*  
USE radioisotope scanners

**scanning (electron)**

USE electron scanning

**scanning (fuel)**

*INIS: 1976-09-06; ETDE: 2002-06-13*  
USE fuel scanning

**scanning (radioisotope)**

USE radioisotope scanning

**scanning acoustic microscopy**

*INIS: 1993-04-07; ETDE: 2002-06-13*  
USE acoustic microscopy

**SCANNING ELECTRON MICROSCOPY**

*INIS: 1982-12-07; ETDE: 1979-11-23*  
(Prior to January 1983 this concept was indexed by coordination of ELECTRON MICROSCOPY and ELECTRON SCANNING.)

- UF *ebic*
- UF *electron beam induced current*
- UF *sem (microscopy)*
- \*BT1 electron microscopy

**SCANNING LIGHT MICROSCOPY**

*INIS: 1994-07-14; ETDE: 1983-03-23*  
*Means of spatial mapping of the optical or electrical properties of deep energy levels in semiconductors.*

- UF *slm*
- \*BT1 optical microscopy
- RT photocurrents
- RT photoluminescence

RT reflectivity

## SCANNING MEASURING PROJECTORS

UF *franckenstein*  
UF *projectors (scanning)*  
UF *smp devices*  
\*BT1 digitizers

## SCANNING TUNNELING MICROSCOPY

INIS: 1999-07-26; ETDE: 1999-09-09

*Technique used to study surface properties of materials from atomic to micron level. A potential difference is applied between a sharp metallic tip and a surface; electrons tunnel across the gap between them.*

UF *stm*  
BT1 microscopy  
RT atomic force microscopy

## SCARABEE REACTOR

1999-09-24

*Nuclear Protection and Safety Institute, CEA St. Paul Lez Durance, France.*

\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

## SCATTERING

1996-07-18

(Prior to March 1997 KHURI REPRESENTATION and HAYWOOD MODEL were valid ETDE descriptors; prior to August 1996 ZEMACH-GLAUBER FORMALISM was a valid ETDE descriptor.)

SF *khuri representation*  
SF *zemach-glauber formalism*  
NT1 backscattering  
NT1 coherent scattering  
NT2 brillouin effect  
NT2 diffraction  
NT3 atomic beam diffraction  
NT3 diffuse scattering  
NT3 electron diffraction  
NT3 neutron diffraction  
NT3 x-ray diffraction  
NT2 rayleigh scattering  
NT1 elastic scattering  
NT2 bhabha scattering  
NT2 compton effect  
NT2 coulomb scattering  
NT2 moeller scattering  
NT2 mott scattering  
NT2 potential scattering  
NT2 rutherford scattering  
NT2 wigner scattering  
NT1 incoherent scattering  
NT1 inelastic scattering  
NT2 deep inelastic scattering  
NT2 delbrueck scattering  
NT2 resonance scattering  
NT2 thomson scattering

NT1 light scattering  
NT1 multiple scattering  
NT1 proximity scattering  
NT1 quasi-elastic scattering  
NT1 rescattering  
NT1 small angle scattering  
RT adiabatic approximation  
RT binary encounter method  
RT blankenbecler-sugar equations  
RT born approximation  
RT born-oppenheimer approximation  
RT brinkman-kramers approximation  
RT buildup  
RT center-of-mass system  
RT collisions  
RT conspiracy relations  
RT coupled channel born approximation

RT detailed balance principle  
RT diabatic approximation  
RT dispersion relations  
RT dwba  
RT effective range theory  
RT four momentum transfer  
RT fsc approximation  
RT glauber theory  
RT gribov-lipatov relation  
RT impact parameter  
RT impulse approximation  
RT incidence angle  
RT interactions  
RT inverse scattering problem  
RT ion scattering analysis  
RT jost function  
RT laboratory system  
RT landau curves  
RT lane-robson theory  
RT levinson theorem  
RT nuclear reactions  
RT partial waves  
RT perturbation theory  
RT phase shift  
RT polarization-asymmetry ratio  
RT radiation scattering analysis  
RT raman effect  
RT resonating-group method  
RT s matrix  
RT scattering amplitudes  
RT scattering lengths  
RT semiclassical approximation  
RT shadow effect  
RT shielding  
RT spectroscopic factors  
RT stray radiation  
RT targets  
RT threshold energy  
RT transport theory  
RT wkb approximation

## SCATTERING AMPLITUDES

BT1 amplitudes  
RT abfst equation  
RT argand diagrams  
RT crossing symmetry  
RT dispersion relations  
RT duality  
RT eikonal approximation  
RT linear absorption models  
RT partial waves  
RT quasipotential equation  
RT regge poles  
RT s matrix  
RT scattering  
RT singularity  
RT veneziano model

## SCATTERING LENGTHS

1999-07-20

\*BT1 length  
RT scattering

## SCATTERPLOTS

*Two-dimensional projections of multidimensional data.*

\*BT1 diagrams  
NT1 argand diagrams  
NT1 dalitz plot  
NT1 prism plot

## SCAVENGING

RT hot atom chemistry  
RT radiation chemistry  
RT radicals

## scavenging (atmospheric)

USE washout

## SCENEDESMUS

\*BT1 chlorophycota

\*BT1 unicellular algae

## SCHEDULES

INIS: 1986-07-09; ETDE: 1983-05-21

RT construction  
RT contract management  
RT forecasting  
RT management  
RT organizing  
RT pert method  
RT planning  
RT time delay

## SCHIFF BASES

\*BT1 imines

## SCHIFFER POTENTIAL

INIS: 1976-10-29; ETDE: 1976-12-16

\*BT1 nucleon-nucleon potential  
RT nucleon-nucleon interactions

## SCHISTOSOMA

\*BT1 trematodes  
RT schistosomiasis

## SCHISTOSOMIASIS

\*BT1 parasitic diseases  
RT schistosoma  
RT snails

## SCHISTS

1977-07-05

*Strongly foliated crystalline rocks formed by dynamic metamorphism which can be readily split into thin flakes or slabs due to the well developed parallelism of more than 50% of the minerals present.*

\*BT1 metamorphic rocks

## SCHLIERNEN METHOD

BT1 photography  
RT opacity  
RT refraction  
RT visible radiation

## *schmalfeldt-wintershall process*

2000-04-12

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

## SCHMEHAUSEN-2 REACTOR

INIS: 2000-04-12; ETDE: 1975-09-11

\*BT1 enriched uranium reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 power reactors

## *schmehausen reactor*

INIS: 1995-05-02; ETDE: 2002-06-13

USE thtr-300 reactor

## *schmehausen thtr reactor*

USE thtr-300 reactor

## *schmid-vicchnicki technique*

INIS: 2000-04-12; ETDE: 1980-02-11

USE heat exchanger method

## SCHMIDT LINES

RT nuclear magnetic moments  
RT spin

## SCHMIDT MODEL

RT single-particle model  
RT spin

## *schmitt trigger circuits*

USE multivibrators

**schnelle null-energie anordnung****karlsruhe**

1993-11-09

USE sneak reactor

**schneller natriumgekuehlter reaktor**

USE snr reactor

**SCHOEPIE**

\*BT1 oxide minerals

\*BT1 uranium minerals

RT uranium oxides

**SCHOOL BUILDINGS**

INIS: 1992-09-03; ETDE: 1976-04-19

BT1 buildings

BT1 educational facilities

RT laboratory buildings

RT public buildings

**school facilities**

INIS: 2000-04-12; ETDE: 1979-05-31

USE educational facilities

**school plant**

INIS: 2000-04-12; ETDE: 1979-05-25

USE educational facilities

**schools**

INIS: 1983-06-30; ETDE: 1983-07-20

USE educational facilities

**schooner event**

1994-10-14

*A test made during OPERATION BOWLINE.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE cratering explosions

USE thermonuclear explosions

USE underground explosions

**SCHOTTKY BARRIER DIODES**

1997-06-19

\*BT1 semiconductor diodes

RT schottky barrier solar cells

RT tunnel diodes

**SCHOTTKY BARRIER SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

\*BT1 solar cells

RT mis solar cells

RT schottky barrier diodes

**SCHOTTKY DEFECTS**

\*BT1 vacancies

**SCHOTTKY EFFECT**

RT thermionics

**schroedingerite**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE carbonate minerals

USE halide minerals

USE sulfate minerals

USE uranium minerals

**SCHROEDINGER EQUATION**

\*BT1 wave equations

RT dirac equation

RT jost function

RT quantum mechanics

RT wave functions

**SCHROEDINGER PICTURE**

INIS: 1976-03-17; ETDE: 1976-01-23

UF schroedinger representation

RT heisenberg picture

RT quantum field theory

RT quantum mechanics

**schroedinger representation**

INIS: 1976-03-17; ETDE: 2002-06-13

USE schroedinger picture

**SCHULZ METHOD**

RT diffraction methods

RT texture

**SCHUMANN-RUNGE BANDS**

RT spectra

**schwarzschild field**

USE schwarzschild metric

**SCHWARZSCHILD METRIC**

UF schwarzschild field

UF schwarzschild solution

UF schwarzschild space

BT1 metrics

RT cosmology

RT general relativity theory

RT gravitation

**SCHWARZSCHILD RADIUS**

RT black holes

RT gravitational collapse

**schwarzschild solution**

USE schwarzschild metric

**schwarzschild space**

USE schwarzschild metric

**SCHWINGER FUNCTIONAL EQUATIONS**

\*BT1 differential equations

RT quantum field theory

**SCHWINGER SOURCE THEORY**

RT causality

RT elementary particles

RT quantum field theory

**SCHWINGER TERMS**

RT current commutators

RT delta function

**SCHWINGER-TOMONAGA FORMALISM**

\*BT1 quantum electrodynamics

**SCHWINGER VARIATIONAL METHOD**

\*BT1 variational methods

RT lippmann-schwinger equation

RT quantum mechanics

**SCIATIC NERVE**

\*BT1 nerves

RT legs

**SCIENTIFIC PERSONNEL**

INIS: 1993-09-06; ETDE: 1995-05-09

SF professional personnel

BT1 personnel

**scintigraphy**

USE scintiscanning

**scintillation cameras**

INIS: 1976-03-17; ETDE: 2002-06-13

USE gamma cameras

**scintillation chambers**

USE scintillation counters

**SCINTILLATION COUNTERS**

UF scintillation chambers

UF scintillation detectors

\*BT1 radiation detectors

NT1 gas scintillation detectors

NT1 liquid scintillation detectors

NT1 scintillator-photodiode detectors

NT1 solid scintillation detectors

NT2 bgo detectors

NT2 nai detectors

NT2 plastic scintillation detectors

RT dosemeters

RT light pipes

RT luminescent chambers

RT phosphors

RT photomultipliers

RT proton recoil detectors

RT scintillation counting

RT scintillation quenching

**SCINTILLATION COUNTING**

BT1 counting techniques

RT liquid scintillators

RT scintillation counters

RT scintillation quenching

**scintillation detectors**

USE scintillation counters

**SCINTILLATION QUENCHING**

UF quenching (scintillation)

RT liquid scintillation detectors

RT scintillation counters

RT scintillation counting

**SCINTILLATIONS**

RT radioluminescence

**SCINTILLATOR-PHOTODIODE DETECTORS**

\*BT1 scintillation counters

**scintillators**

INIS: 1975-12-17; ETDE: 2002-06-13

USE phosphors

**SCINTISCANNING**

UF scintigraphy

BT1 diagnostic techniques

\*BT1 radioisotope scanning

NT1 radioimmunoscintigraphy

RT diagnosis

RT dual-isotope subtraction technique

RT images

RT labelled compounds

RT nuclear medicine

RT osteodensitometry

RT radiopharmaceuticals

**scioto river**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

USE ohio

USE rivers

**SCISSION-POINT MODEL**

INIS: 1986-10-29; ETDE: 1985-05-07

*A static model of nuclear fission based on the assumption of statistical equilibrium among collective degrees of freedom at the scission point.*

\*BT1 nuclear models

RT fission

**sclera**

USE eyes

**SCLEROPROTEINS**

\*BT1 proteins

NT1 collagen

NT1 fibrin

NT1 gluten

NT1 keratin

**SCORPIONS**

\*BT1 arachnids



**SCOT PROCESS**

2000-04-12

Process for increasing sulfur recovery efficiency of Claus units from the usual level of about 95% to more than 99.8%.

UF shell claus off-gas treating process

\*BT1 desulfurization

**scotch event**

INIS: 1994-10-14; ETDE: 1977-01-10

A test made during OPERATION LATCHKEY.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**scotland**

INIS: 1984-11-30; ETDE: 1984-12-27

USE united kingdom

**scottish research reactor center utr-100 reactor**

1993-11-09

USE srrc-utr-100 reactor

**SCRAM**

UF emergency shutdown

\*BT1 reactor shutdown

RT atws

RT fluid poison control

RT reactor protection systems

RT reactor safety fuses

RT scram rods

RT soluble poisons

**SCRAM RODS**

UF emergency rods

UF safety rods

\*BT1 control elements

RT neutron absorbers

RT scram

**SCRAP**

INIS: 1986-04-04; ETDE: 1978-03-09

Material, usually from production processes, which can be reprocessed or recycled to become useful.

\*BT1 solid wastes

NT1 scrap metals

RT industrial wastes

RT municipal wastes

RT recycling

RT waste processing

**SCRAP METALS**

INIS: 1994-09-08; ETDE: 1977-08-09

Metallic waste from the production of metals or from the fabrication or obsolescence of metal equipment.

\*BT1 metals

\*BT1 scrap

RT industrial wastes

RT metal industry

**SCRAPERS**

INIS: 2000-04-12; ETDE: 1982-05-24

BT1 equipment

RT dewaxing

RT pipelines

RT pipes

RT surface cleaning

RT well servicing

**SCREEN PRINTING**

INIS: 2000-04-12; ETDE: 1979-02-27

\*BT1 surface coating

RT coatings

RT masking

**SCREENING**

INIS: 2000-04-12; ETDE: 1978-05-03

Process of separating various-sized particles by using screens with different-sized openings by rotating, shaking, vibrating, or otherwise agitating the screen.

RT sorting

**screening (carcinogen)**

INIS: 2000-04-12; ETDE: 1997-03-31

USE carcinogen screening

**screening (magnetic fields)**

INIS: 2000-04-12; ETDE: 1997-03-31

USE magnetic shielding

**screening (mutagen)**

INIS: 2000-04-12; ETDE: 1997-03-31

USE mutagen screening

**screening (nuclear)**

INIS: 2000-04-12; ETDE: 1997-03-31

USE nuclear screening

**screening (teratogen)**

INIS: 2000-04-12; ETDE: 1997-03-31

USE teratogen screening

**SCREENS**

1996-05-14

Permeable barriers, frequently of perforated plates or metal wire mesh, used to prevent particles or objects larger than a specified size from passing beyond a given point in a flow stream, while permitting everything of smaller size to pass. Not to be used for viewing screens on which any type of image is displayed as on a cathode ray tube.

NT1 trommels

RT concentrators

RT curtains

RT filters

RT fouling

RT gratings

RT impingement

RT intake structures

RT particle size classifiers

RT separation processes

RT sorting

**SCREW DISLOCATIONS**

UF frank dislocations

UF frank loops

\*BT1 dislocations

**screw instability**

USE helical instability

**SCREW PINCH**

Cylindrical plasma equilibrium in which the axial and azimuthal components of the vacuum field are the same size.

BT1 pinch effect

RT linear screw pinch devices

RT toroidal screw pinch devices

**screwing**

USE fastening

**screws**

USE fasteners

**SCREWWORM FLY**

INIS: 1975-09-09; ETDE: 1975-10-28

\*BT1 flies

RT domestic animals

RT parasites

**scriba nuclear power plant**

ETDE: 2002-06-13

USE nine mile point-1 reactor

**SCRUBBERS**

1986-04-04

\*BT1 pollution control equipment

NT1 dry scrubbers

RT air cleaning

RT air cleaning systems

RT air filters

RT air pollution

RT air pollution control

RT consol fgd process

RT cyclone separators

RT dust collectors

RT scrubbing

RT sprays

RT thiosorbic process

RT waste processing

**SCRUBBING**

INIS: 1983-09-06; ETDE: 1975-07-29

NT1 lime-limestone wet scrubbing processes

NT2 bischoff process

RT chemisorption

RT cleaning

RT decontamination

RT descaling

RT filters

RT flue gas

RT magnesium slurry scrubbing process

RT off-gas systems

RT pollution control equipment

RT purification

RT scrubbers

RT separation processes

RT sprays

RT washing

**SCYLLA DEVICES**

\*BT1 linear theta pinch devices

**SCYLLAC DEVICES**

\*BT1 toroidal theta pinch devices

**SDS COMPUTERS**

BT1 computers

**sea, safety of life at, convention**

INIS: 1984-06-21; ETDE: 2002-06-16

USE solas convention

**SEA BED**

RT earth crust

RT geomorphology

RT seas

RT sediment-water interfaces

RT sediments

RT soil mechanics

RT submarine canyons

**sea disposal**

USE marine disposal

**SEA-FLOOR SPREADING**

INIS: 2000-04-12; ETDE: 1976-08-04

A hypothesis that the oceanic crust is increasing by convective upwelling of magma along the mid-oceanic ridges or world rift system, and a moving away of the new material at a rate of from one to ten centimeters per year. This movement provides the source of power in the hypothesis of plate tectonics.

UF ocean spreading center

RT earth crust

RT plate tectonics

RT seas

**SEA LEVEL**

BT1 levels

**sea of marmara**

*INIS: 2000-04-12; ETDE: 1976-05-17*

(Prior to July 1996 MARMARA SEA was a valid ETDE descriptor.)

USE seas  
USE turkey

**SEA URCHINS**

\*BT1 echinoderms

**seaboard process**

*2000-04-12*

*Wet scrubbing process for the removal of hydrogen sulfide from refinery and petroleum gas streams.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**SEABORGIUM**

*2004-03-19*

(Prior to March 2004 ELEMENT 106 was used for this element.)

*UF eka-tungsten*

*UF element 106*

*UF unnilhexium*

\*BT1 transactinide elements

**SEABORGIUM 258**

*2007-04-23*

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 seaborgium isotopes  
\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 259**

*2004-03-19*

(Prior to March 2004 ELEMENT 106 259 was used for this concept.)

*UF element 106 259*

\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 seaborgium isotopes  
\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 260**

*2004-03-19*

(Prior to March 2004 ELEMENT 106 260 was used for this concept.)

*UF element 106 260*

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 seaborgium isotopes  
\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 261**

*2004-03-19*

(Prior to March 2004 ELEMENT 106 261 was used for this concept.)

*UF element 106 261*

\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 seaborgium isotopes  
\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 262**

*2004-03-19*

(Prior to March 2004 ELEMENT 106 262 was used for this concept.)

*UF element 106 262*

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 seaborgium isotopes

\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 263**

*2004-03-19*

(Prior to March 2004 ELEMENT 106 263 was used for this concept.)

*UF element 106 263*

\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 seaborgium isotopes  
\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 264**

*2007-04-23*

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 seaborgium isotopes  
\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 265**

*2004-03-19*

(Prior to March 2004 ELEMENT 106 265 was used for this concept.)

*UF element 106 265*

\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 seaborgium isotopes  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 266**

*2004-03-19*

(Prior to March 2004 ELEMENT 106 266 was used for this concept.)

*UF element 106 266*

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 seaborgium isotopes  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 268**

*2007-04-23*

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 seaborgium isotopes  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 270**

*2007-04-23*

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 seaborgium isotopes  
\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 271**

*2007-04-23*

\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 seaborgium isotopes  
\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 272**

*2007-04-23*

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 seaborgium isotopes

\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 273**

*2007-04-23*

\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 seaborgium isotopes  
\*BT1 spontaneous fission radioisotopes

**SEABORGIUM COMPOUNDS**

*2004-03-19*

(Prior to March 2004 ELEMENT 106 COMPOUNDS was used for this concept.)

*UF element 106 compounds*

\*BT1 transactinide compounds

**SEABORGIUM ISOTOPES**

*2004-03-19*

(Prior to March 2004 ELEMENT 106 ISOTOPES was used for this concept.)

*UF element 106 isotopes*

BT1 isotopes

NT1 seaborgium 258

NT1 seaborgium 259

NT1 seaborgium 260

NT1 seaborgium 261

NT1 seaborgium 262

NT1 seaborgium 263

NT1 seaborgium 264

NT1 seaborgium 265

NT1 seaborgium 266

NT1 seaborgium 268

NT1 seaborgium 270

NT1 seaborgium 271

NT1 seaborgium 272

NT1 seaborgium 273

**SEABROOK-1 REACTOR**

*North Atlantic Energy Service Corp., Seabrook, New Hampshire, USA.*

\*BT1 pwr type reactors

**SEABROOK-2 REACTOR**

*Public Service Co. of New Hampshire, Seabrook, New Hampshire, USA. Canceled in 1988 before construction began.*

\*BT1 pwr type reactors

**seacoast**

USE shores

**SEACOCKE PROCESS**

*2000-04-12*

*A fluidized-bed pyrolysis of coal, with partial counterflow of gas and char to maximize liquid and gas yield from volatile matter of coal, to produce gas, liquid, and solid product streams, developed by Atlantic Refining Co., now Atlantic Richfield Co.*

\*BT1 coal gasification

**SEAFOOD**

BT1 fish products

BT1 food

RT crabs

RT fishes

RT lobsters

RT oysters

RT plaice

RT prawns

RT shrimp

RT snails

RT trout

**SEALED SOURCES**

BT1 radiation sources

RT containment

RT leak testing

RT leaks

**SEALING MATERIALS**

BT1 materials

RT grouting  
RT seals  
RT waterproofing

**SEALS**

(From November 1977 to February 1997  
CAULKING was a valid ETDE descriptor.)

SF caulking  
NT1 gaskets  
NT1 inflatable seals  
NT1 security seals  
RT cementing  
RT closures  
RT grouting  
RT liners  
RT pipe fittings  
RT sealing materials  
RT waterproofing

**seals (mammals)**

INIS: 1993-05-04; ETDE: 1982-02-08  
USE pinnipeds

**seam welding**

INIS: 1976-03-17; ETDE: 2002-06-13  
USE welding

**seam welds**

INIS: 1976-03-17; ETDE: 2002-06-13  
USE welded joints

**SEAS**

1997-06-19

For use only in its geographic connotation;  
for the legal connotation see HIGH SEAS and  
TERRITORIAL WATERS.

UF bass strait  
UF marmara sea  
UF marmora sea  
UF oceans  
UF sea of marmara  
BT1 surface waters  
NT1 antarctic ocean  
NT2 weddell sea  
NT1 aral sea  
NT1 arctic ocean  
NT2 beaufort sea  
NT3 prudhoe bay  
NT2 chukchi sea  
NT1 atlantic ocean  
NT2 baltimore canyon  
NT2 bay of biscay  
NT2 bay of fundy  
NT2 biscayne bay  
NT2 caribbean sea  
NT3 gulf of mexico  
NT4 galveston bay  
NT4 san antonio bay  
NT2 chesapeake bay  
NT2 delaware bay  
NT2 gulf of maine  
NT2 irish sea  
NT2 long island sound  
NT2 mid-atlantic bight  
NT3 new york bight  
NT2 north sea  
NT3 wadden sea  
NT2 onslow bay  
NT2 sargasso sea  
NT2 south atlantic bight  
NT2 weddell sea  
NT1 baltic sea  
NT1 black sea  
NT1 caspian sea  
NT1 indian ocean  
NT2 arabian sea  
NT3 persian gulf  
NT4 strait of hormuz  
NT2 timor sea  
NT1 mediterranean sea

NT2 adriatic sea  
NT2 aegean sea  
NT1 pacific ocean  
NT2 bering sea  
NT2 china sea  
NT2 gulf of alaska  
NT2 gulf of california  
NT2 puget sound  
NT2 san francisco bay  
NT2 santa barbara channel  
NT2 sequim bay  
NT2 tasman sea  
NT1 red sea  
NT2 gulf of suz  
RT bathymetry  
RT coastal waters  
RT estuaries  
RT harbors  
RT high seas  
RT islands  
RT marinas  
RT oceanic circulation  
RT oceanography  
RT offshore nuclear power plants  
RT offshore sites  
RT reefs  
RT sea bed  
RT sea-floor spreading  
RT seawater  
RT shores  
RT territorial waters  
RT tide  
RT tsunamis  
RT water currents  
RT water waves  
RT wave energy converters

**SEASAT SATELLITES**

INIS: 2000-04-12; ETDE: 1980-03-29  
BT1 satellites  
RT aerial prospecting  
RT remote sensing

**SEASONAL THERMAL ENERGY STORAGE**

INIS: 2000-04-12; ETDE: 1982-05-24  
UF stes  
\*BT1 heat storage  
RT latent heat storage  
RT sensible heat storage

**SEASONAL VARIATIONS**

UF time-of-season pricing  
BT1 variations  
RT climate models  
RT seasons  
RT time-of-use pricing

**seasonings**

2000-04-12  
USE food

**SEASONS**

RT atmospheric precipitations  
RT climates  
RT meteorology  
RT seasonal variations  
RT vernalization  
RT weather

**SEAWATER**

\*BT1 water  
RT brines  
RT desalination  
RT desalination plants  
RT estuaries  
RT fiords  
RT salinity  
RT salinity gradient power plants  
RT salinity gradients  
RT seas

**SEAWEEEDS**

UF kelp  
BT1 aquatic organisms  
BT1 plants  
NT1 fucus  
NT1 laminaria

**sebaceous glands**

USE glands  
USE skin

**SEBACIC ACID**

\*BT1 dicarboxylic acids

**secale**

USE rye

**SECOND-CLASS CURRENTS**

Classification of currents according to their  
properties under G-parity transformations.

\*BT1 algebraic currents  
RT weak interactions

**second-harmonic generation**

INIS: 2000-04-12; ETDE: 1986-01-14  
USE harmonic generation

**SECOND QUANTIZATION**

BT1 quantization  
RT annihilation operators  
RT creation operators  
RT quantum field theory  
RT quantum mechanics

**SECOND SOUND**

RT sound waves  
RT superfluidity

**secondary batteries**

INIS: 2000-04-12; ETDE: 1976-05-17  
USE electric batteries

**SECONDARY BEAMS**

BT1 beams  
NT1 carbon 11 beams  
NT1 helium 8 beams  
RT ion probes

**SECONDARY COOLANT CIRCUITS**

\*BT1 reactor cooling systems

**SECONDARY COSMIC RADIATION**

\*BT1 cosmic radiation  
NT1 cosmic electrons  
NT1 cosmic kaons  
NT1 cosmic muons  
NT1 cosmic neutrons  
NT1 cosmic pions  
NT1 cosmic positrons  
NT1 cosmic showers  
NT2 extensive air showers

**SECONDARY EMISSION**

BT1 emission  
NT1 photoemission  
RT ion probes  
RT photon emission

**SECONDARY EMISSION DETECTORS**

\*BT1 radiation detectors

**SECONDARY REACTIONS**

BT1 nuclear reactions

**secondary recovery**

INIS: 1991-10-22; ETDE: 1976-02-23  
USE enhanced recovery

**secondary standard dosimetry laboratories**

INIS: 1993-11-09; ETDE: 1980-08-12  
USE ssdl

## SECONDS LIVING RADIOISOTOPES

1997-02-07

\*BT1 radioisotopes  
 NT1 actinium 214  
 NT1 actinium 222  
 NT1 actinium 234  
 NT1 actinium 235  
 NT1 aluminium 24  
 NT1 aluminium 25  
 NT1 aluminium 26  
 NT1 aluminium 30  
 NT1 americium 231  
 NT1 americium 232  
 NT1 antimony 105  
 NT1 antimony 106  
 NT1 antimony 107  
 NT1 antimony 108  
 NT1 antimony 109  
 NT1 antimony 110  
 NT1 antimony 112  
 NT1 antimony 126  
 NT1 antimony 134  
 NT1 antimony 135  
 NT1 argon 35  
 NT1 argon 45  
 NT1 argon 46  
 NT1 arsenic 67  
 NT1 arsenic 80  
 NT1 arsenic 81  
 NT1 arsenic 82  
 NT1 arsenic 83  
 NT1 arsenic 84  
 NT1 arsenic 85  
 NT1 astatine 198  
 NT1 astatine 199  
 NT1 astatine 200  
 NT1 astatine 202  
 NT1 astatine 218  
 NT1 astatine 219  
 NT1 astatine 222  
 NT1 astatine 223  
 NT1 barium 117  
 NT1 barium 118  
 NT1 barium 119  
 NT1 barium 120  
 NT1 barium 121  
 NT1 barium 127  
 NT1 barium 143  
 NT1 barium 144  
 NT1 barium 145  
 NT1 barium 146  
 NT1 berkelium 235  
 NT1 beryllium 11  
 NT1 bismuth 189  
 NT1 bismuth 190  
 NT1 bismuth 191  
 NT1 bismuth 192  
 NT1 bismuth 193  
 NT1 bismuth 198  
 NT1 bismuth 217  
 NT1 bismuth 218  
 NT1 bohrium 266  
 NT1 bohrium 267  
 NT1 bohrium 271  
 NT1 bohrium 272  
 NT1 bromine 71  
 NT1 bromine 76  
 NT1 bromine 79  
 NT1 bromine 86  
 NT1 bromine 87  
 NT1 bromine 88  
 NT1 bromine 89  
 NT1 bromine 90  
 NT1 cadmium 120  
 NT1 cadmium 121  
 NT1 cadmium 122  
 NT1 cadmium 123  
 NT1 cadmium 124  
 NT1 cadmium 97

NT1 cadmium 98  
 NT1 cadmium 99  
 NT1 calcium 50  
 NT1 calcium 51  
 NT1 calcium 52  
 NT1 californium 237  
 NT1 californium 239  
 NT1 carbon 10  
 NT1 carbon 15  
 NT1 cerium 121  
 NT1 cerium 122  
 NT1 cerium 123  
 NT1 cerium 124  
 NT1 cerium 125  
 NT1 cerium 126  
 NT1 cerium 127  
 NT1 cerium 135  
 NT1 cerium 139  
 NT1 cerium 147  
 NT1 cerium 148  
 NT1 cerium 149  
 NT1 cerium 150  
 NT1 cerium 151  
 NT1 cerium 152  
 NT1 cesium 115  
 NT1 cesium 116  
 NT1 cesium 117  
 NT1 cesium 118  
 NT1 cesium 119  
 NT1 cesium 122  
 NT1 cesium 123  
 NT1 cesium 124  
 NT1 cesium 136  
 NT1 cesium 141  
 NT1 cesium 142  
 NT1 cesium 143  
 NT1 cesium 144  
 NT1 chlorine 33  
 NT1 chlorine 34  
 NT1 chlorine 38  
 NT1 chlorine 41  
 NT1 chromium 57  
 NT1 chromium 58  
 NT1 chromium 59  
 NT1 cobalt 63  
 NT1 cobalt 65  
 NT1 copper 58  
 NT1 copper 68  
 NT1 copper 70  
 NT1 copper 71  
 NT1 copper 72  
 NT1 copper 73  
 NT1 copper 74  
 NT1 copper 75  
 NT1 dubnium 255  
 NT1 dubnium 256  
 NT1 dubnium 257  
 NT1 dubnium 258  
 NT1 dubnium 259  
 NT1 dubnium 260  
 NT1 dubnium 261  
 NT1 dubnium 262  
 NT1 dubnium 263  
 NT1 dysprosium 140  
 NT1 dysprosium 141  
 NT1 dysprosium 142  
 NT1 dysprosium 143  
 NT1 dysprosium 144  
 NT1 dysprosium 145  
 NT1 dysprosium 146  
 NT1 dysprosium 147  
 NT1 dysprosium 169  
 NT1 dysprosium 170  
 NT1 dysprosium 171  
 NT1 einsteinium 241  
 NT1 einsteinium 242  
 NT1 einsteinium 243  
 NT1 einsteinium 244  
 NT1 element 114 289

NT1 erbium 146  
 NT1 erbium 147  
 NT1 erbium 148  
 NT1 erbium 149  
 NT1 erbium 150  
 NT1 erbium 151  
 NT1 erbium 152  
 NT1 erbium 153  
 NT1 erbium 167  
 NT1 erbium 176  
 NT1 erbium 177  
 NT1 europium 135  
 NT1 europium 136  
 NT1 europium 138  
 NT1 europium 139  
 NT1 europium 140  
 NT1 europium 141  
 NT1 europium 142  
 NT1 europium 144  
 NT1 europium 160  
 NT1 europium 161  
 NT1 europium 162  
 NT1 europium 163  
 NT1 europium 164  
 NT1 fermium 245  
 NT1 fermium 246  
 NT1 fermium 247  
 NT1 fermium 248  
 NT1 fermium 250  
 NT1 fermium 259  
 NT1 fluorine 20  
 NT1 fluorine 21  
 NT1 fluorine 22  
 NT1 fluorine 23  
 NT1 francium 204  
 NT1 francium 205  
 NT1 francium 206  
 NT1 francium 207  
 NT1 francium 208  
 NT1 francium 209  
 NT1 francium 213  
 NT1 francium 220  
 NT1 francium 226  
 NT1 francium 228  
 NT1 francium 229  
 NT1 francium 230  
 NT1 francium 231  
 NT1 francium 232  
 NT1 gadolinium 135  
 NT1 gadolinium 140  
 NT1 gadolinium 141  
 NT1 gadolinium 143  
 NT1 gadolinium 164  
 NT1 gadolinium 165  
 NT1 gadolinium 166  
 NT1 gadolinium 167  
 NT1 gadolinium 169  
 NT1 gallium 63  
 NT1 gallium 74  
 NT1 gallium 76  
 NT1 gallium 77  
 NT1 gallium 78  
 NT1 gallium 79  
 NT1 gallium 80  
 NT1 gallium 81  
 NT1 germanium 65  
 NT1 germanium 75  
 NT1 germanium 77  
 NT1 germanium 79  
 NT1 germanium 80  
 NT1 germanium 81  
 NT1 germanium 82  
 NT1 germanium 83  
 NT1 germanium 84  
 NT1 gold 176  
 NT1 gold 177  
 NT1 gold 178  
 NT1 gold 179  
 NT1 gold 180

NT1 gold 181	NT1 iridium 177	NT1 neodymium 130
NT1 gold 182	NT1 iridium 178	NT1 neodymium 131
NT1 gold 183	NT1 iridium 191	NT1 neodymium 137
NT1 gold 184	NT1 iridium 196	NT1 neodymium 153
NT1 gold 193	NT1 iridium 198	NT1 neodymium 154
NT1 gold 195	NT1 iron 52	NT1 neodymium 155
NT1 gold 196	NT1 iron 63	NT1 neodymium 156
NT1 gold 197	NT1 iron 64	NT1 neon 18
NT1 gold 202	NT1 krypton 72	NT1 neon 19
NT1 gold 203	NT1 krypton 73	NT1 neon 23
NT1 gold 204	NT1 krypton 79	NT1 nickel 67
NT1 gold 205	NT1 krypton 81	NT1 nickel 69
NT1 hafnium 154	NT1 krypton 90	NT1 nickel 70
NT1 hafnium 158	NT1 krypton 91	NT1 nickel 71
NT1 hafnium 159	NT1 krypton 92	NT1 nickel 72
NT1 hafnium 160	NT1 krypton 93	NT1 nickel 74
NT1 hafnium 161	NT1 lanthanum 118	NT1 niobium 100
NT1 hafnium 162	NT1 lanthanum 119	NT1 niobium 101
NT1 hafnium 163	NT1 lanthanum 120	NT1 niobium 102
NT1 hafnium 177	NT1 lanthanum 121	NT1 niobium 103
NT1 hafnium 178	NT1 lanthanum 122	NT1 niobium 104
NT1 hafnium 179	NT1 lanthanum 123	NT1 niobium 105
NT1 hafnium 187	NT1 lanthanum 124	NT1 niobium 106
NT1 hafnium 188	NT1 lanthanum 144	NT1 niobium 83
NT1 hassium 269	NT1 lanthanum 145	NT1 niobium 84
NT1 hassium 270	NT1 lanthanum 146	NT1 niobium 85
NT1 hassium 271	NT1 lanthanum 147	NT1 niobium 90
NT1 hassium 272	NT1 lanthanum 148	NT1 niobium 97
NT1 holmium 145	NT1 lanthanum 149	NT1 niobium 98
NT1 holmium 146	NT1 lawrencium 252	NT1 niobium 99
NT1 holmium 148	NT1 lawrencium 253	NT1 nitrogen 16
NT1 holmium 149	NT1 lawrencium 254	NT1 nitrogen 17
NT1 holmium 150	NT1 lawrencium 255	NT1 nobelium 252
NT1 holmium 151	NT1 lawrencium 256	NT1 nobelium 254
NT1 holmium 152	NT1 lawrencium 258	NT1 nobelium 256
NT1 holmium 159	NT1 lawrencium 259	NT1 nobelium 257
NT1 holmium 161	NT1 lead 185	NT1 osmium 168
NT1 holmium 163	NT1 lead 186	NT1 osmium 169
NT1 holmium 170	NT1 lead 187	NT1 osmium 170
NT1 holmium 171	NT1 lead 188	NT1 osmium 171
NT1 holmium 172	NT1 lead 189	NT1 osmium 172
NT1 holmium 173	NT1 lead 203	NT1 osmium 173
NT1 holmium 174	NT1 lutetium 154	NT1 osmium 174
NT1 holmium 175	NT1 lutetium 157	NT1 osmium 192
NT1 indium 101	NT1 lutetium 158	NT1 osmium 199
NT1 indium 102	NT1 lutetium 159	NT1 oxygen 19
NT1 indium 104	NT1 lutetium 160	NT1 oxygen 20
NT1 indium 105	NT1 lutetium 183	NT1 oxygen 21
NT1 indium 107	NT1 lutetium 184	NT1 oxygen 22
NT1 indium 116	NT1 magnesium 22	NT1 palladium 107
NT1 indium 118	NT1 magnesium 23	NT1 palladium 115
NT1 indium 120	NT1 magnesium 29	NT1 palladium 116
NT1 indium 121	NT1 manganese 58	NT1 palladium 117
NT1 indium 122	NT1 manganese 59	NT1 palladium 118
NT1 indium 123	NT1 manganese 60	NT1 palladium 93
NT1 indium 124	NT1 meitnerium 271	NT1 palladium 94
NT1 indium 125	NT1 meitnerium 272	NT1 palladium 95
NT1 indium 126	NT1 meitnerium 273	NT1 phosphorus 29
NT1 indium 127	NT1 meitnerium 274	NT1 phosphorus 34
NT1 indium 129	NT1 mendelevium 247	NT1 phosphorus 35
NT1 indium 98	NT1 mendelevium 248	NT1 phosphorus 36
NT1 indium 99	NT1 mendelevium 249	NT1 phosphorus 37
NT1 iodine 111	NT1 mendelevium 250	NT1 platinum 175
NT1 iodine 112	NT1 mercury 179	NT1 platinum 176
NT1 iodine 113	NT1 mercury 180	NT1 platinum 177
NT1 iodine 114	NT1 mercury 181	NT1 platinum 178
NT1 iodine 116	NT1 mercury 182	NT1 platinum 179
NT1 iodine 133	NT1 mercury 183	NT1 platinum 180
NT1 iodine 136	NT1 mercury 184	NT1 platinum 181
NT1 iodine 137	NT1 mercury 185	NT1 platinum 183
NT1 iodine 138	NT1 molybdenum 105	NT1 platinum 199
NT1 iodine 139	NT1 molybdenum 106	NT1 plutonium 229
NT1 iridium 170	NT1 molybdenum 107	NT1 polonium 195
NT1 iridium 171	NT1 molybdenum 108	NT1 polonium 196
NT1 iridium 172	NT1 molybdenum 110	NT1 polonium 197
NT1 iridium 173	NT1 molybdenum 86	NT1 polonium 203
NT1 iridium 174	NT1 molybdenum 87	NT1 polonium 207
NT1 iridium 175	NT1 neodymium 127	NT1 polonium 211
NT1 iridium 176	NT1 neodymium 129	NT1 polonium 212

NT1 polonium 217	NT1 rubidium 76	NT1 tantalum 160
NT1 potassium 37	NT1 rubidium 80	NT1 tantalum 161
NT1 potassium 38	NT1 rubidium 91	NT1 tantalum 162
NT1 potassium 47	NT1 rubidium 92	NT1 tantalum 163
NT1 potassium 48	NT1 rubidium 93	NT1 tantalum 164
NT1 potassium 49	NT1 rubidium 94	NT1 tantalum 165
NT1 praseodymium 124	NT1 ruthenium 109	NT1 tantalum 166
NT1 praseodymium 125	NT1 ruthenium 110	NT1 tantalum 188
NT1 praseodymium 126	NT1 ruthenium 111	NT1 technetium 100
NT1 praseodymium 127	NT1 ruthenium 112	NT1 technetium 102
NT1 praseodymium 128	NT1 ruthenium 113	NT1 technetium 103
NT1 praseodymium 129	NT1 ruthenium 89	NT1 technetium 106
NT1 praseodymium 130	NT1 ruthenium 90	NT1 technetium 107
NT1 praseodymium 150	NT1 ruthenium 91	NT1 technetium 108
NT1 praseodymium 151	NT1 ruthenium 93	NT1 technetium 109
NT1 praseodymium 152	NT1 rutherfordium 253	NT1 technetium 87
NT1 praseodymium 153	NT1 rutherfordium 255	NT1 technetium 88
NT1 praseodymium 154	NT1 rutherfordium 257	NT1 technetium 90
NT1 promethium 128	NT1 rutherfordium 259	NT1 tellurium 108
NT1 promethium 129	NT1 rutherfordium 262	NT1 tellurium 109
NT1 promethium 130	NT1 samarium 130	NT1 tellurium 110
NT1 promethium 131	NT1 samarium 131	NT1 tellurium 111
NT1 promethium 132	NT1 samarium 132	NT1 tellurium 135
NT1 promethium 133	NT1 samarium 133	NT1 tellurium 136
NT1 promethium 134	NT1 samarium 134	NT1 tellurium 137
NT1 promethium 135	NT1 samarium 135	NT1 tellurium 138
NT1 promethium 140	NT1 samarium 136	NT1 terbium 139
NT1 promethium 142	NT1 samarium 137	NT1 terbium 140
NT1 promethium 155	NT1 samarium 139	NT1 terbium 141
NT1 promethium 156	NT1 samarium 159	NT1 terbium 143
NT1 promethium 157	NT1 samarium 160	NT1 terbium 144
NT1 promethium 158	NT1 samarium 161	NT1 terbium 145
NT1 promethium 159	NT1 samarium 162	NT1 terbium 146
NT1 protactinium 225	NT1 scandium 42	NT1 terbium 151
NT1 radium 207	NT1 scandium 46	NT1 terbium 158
NT1 radium 208	NT1 scandium 51	NT1 terbium 166
NT1 radium 209	NT1 scandium 52	NT1 terbium 167
NT1 radium 210	NT1 seaborgium 265	NT1 terbium 168
NT1 radium 211	NT1 seaborgium 266	NT1 terbium 169
NT1 radium 212	NT1 seaborgium 268	NT1 terbium 170
NT1 radium 214	NT1 selenium 69	NT1 thallium 180
NT1 radium 221	NT1 selenium 77	NT1 thallium 181
NT1 radium 222	NT1 selenium 85	NT1 thallium 182
NT1 radium 233	NT1 selenium 86	NT1 thallium 184
NT1 radium 234	NT1 selenium 87	NT1 thallium 185
NT1 radon 200	NT1 selenium 88	NT1 thallium 186
NT1 radon 201	NT1 silicon 26	NT1 thallium 187
NT1 radon 202	NT1 silicon 27	NT1 thallium 195
NT1 radon 203	NT1 silicon 33	NT1 thallium 197
NT1 radon 219	NT1 silicon 34	NT1 thallium 207
NT1 radon 220	NT1 silver 101	NT1 thorium 215
NT1 radon 227	NT1 silver 103	NT1 thorium 223
NT1 radon 228	NT1 silver 107	NT1 thorium 224
NT1 rhenium 165	NT1 silver 109	NT1 thulium 151
NT1 rhenium 166	NT1 silver 110	NT1 thulium 152
NT1 rhenium 167	NT1 silver 114	NT1 thulium 153
NT1 rhenium 168	NT1 silver 115	NT1 thulium 154
NT1 rhenium 169	NT1 silver 116	NT1 thulium 155
NT1 rhenium 170	NT1 silver 117	NT1 thulium 156
NT1 rhenium 171	NT1 silver 118	NT1 thulium 162
NT1 rhenium 172	NT1 silver 119	NT1 thulium 178
NT1 rhenium 192	NT1 silver 120	NT1 thulium 179
NT1 rhodium 104	NT1 silver 122	NT1 tin 102
NT1 rhodium 105	NT1 silver 96	NT1 tin 103
NT1 rhodium 106	NT1 silver 97	NT1 tin 105
NT1 rhodium 108	NT1 silver 98	NT1 tin 128
NT1 rhodium 110	NT1 silver 99	NT1 tin 131
NT1 rhodium 111	NT1 sodium 21	NT1 tin 132
NT1 rhodium 112	NT1 sodium 25	NT1 tin 133
NT1 rhodium 113	NT1 sodium 26	NT1 tin 134
NT1 rhodium 114	NT1 strontium 76	NT1 titanium 53
NT1 rhodium 117	NT1 strontium 77	NT1 tungsten 160
NT1 rhodium 90	NT1 strontium 83	NT1 tungsten 162
NT1 rhodium 91	NT1 strontium 95	NT1 tungsten 163
NT1 rhodium 92	NT1 strontium 96	NT1 tungsten 164
NT1 rhodium 93	NT1 sulfur 30	NT1 tungsten 165
NT1 rhodium 94	NT1 sulfur 31	NT1 tungsten 166
NT1 roentgenium 280	NT1 sulfur 39	NT1 tungsten 167
NT1 rubidium 75	NT1 sulfur 40	NT1 tungsten 168

NT1 tungsten 169  
 NT1 tungsten 183  
 NT1 vanadium 43  
 NT1 vanadium 54  
 NT1 vanadium 55  
 NT1 xenon 112  
 NT1 xenon 113  
 NT1 xenon 114  
 NT1 xenon 115  
 NT1 xenon 116  
 NT1 xenon 125  
 NT1 xenon 139  
 NT1 xenon 140  
 NT1 xenon 141  
 NT1 xenon 142  
 NT1 xenon 144  
 NT1 ytterbium 153  
 NT1 ytterbium 155  
 NT1 ytterbium 156  
 NT1 ytterbium 157  
 NT1 ytterbium 169  
 NT1 ytterbium 176  
 NT1 ytterbium 177  
 NT1 yttrium 78  
 NT1 yttrium 79  
 NT1 yttrium 80  
 NT1 yttrium 82  
 NT1 yttrium 84  
 NT1 yttrium 89  
 NT1 yttrium 96  
 NT1 yttrium 97  
 NT1 yttrium 98  
 NT1 yttrium 99  
 NT1 zinc 73  
 NT1 zinc 75  
 NT1 zinc 76  
 NT1 zinc 77  
 NT1 zinc 78  
 NT1 zinc 79  
 NT1 zirconium 100  
 NT1 zirconium 101  
 NT1 zirconium 102  
 NT1 zirconium 103  
 NT1 zirconium 104  
 NT1 zirconium 83  
 NT1 zirconium 85  
 NT1 zirconium 87  
 NT1 zirconium 98  
 NT1 zirconium 99  
 RT half-life  
 RT lifetime

**SECURITY PROTECTION**

INIS: 1977-03-14; ETDE: 1977-06-03  
 Measures, regulations or orders established to protect the secrecy of certain places, installations or offices.

SF invention secrecy act  
 RT atomic energy laws  
 RT classified information  
 RT cryptography  
 RT identification systems  
 RT physical protection  
 RT physical protection devices  
 RT sabotage  
 RT security  
 RT security violations

**SECRETIN**

\*BT1 peptide hormones  
 RT secretion  
 RT small intestine

**SECRETION**

NT1 pheromone  
 RT body fluids  
 RT excretion  
 RT gastric acid  
 RT gastrin  
 RT glands

RT secretin

**sector cyclotron**

INIS: 2000-04-12; ETDE: 1987-10-22  
 USE isochronous cyclotrons

**SECTORAL ANALYSIS**

INIS: 1992-10-23; ETDE: 1984-05-08  
 Economic or energy analysis by sectors of economy, energy consumption, energy production, or other sectors.

RT business  
 RT commercial sector  
 RT households  
 RT residential sector  
 RT service sector  
 RT transportation sector

**SECULAR EQUATION**

BT1 equations  
 RT eigenvalues  
 RT matrices

**SECURITY**

(Prior to May 1996 SURVEILLANCE was a valid ETDE descriptor. From July 1984 till April 1997 CRYPTOGRAPHY was a valid descriptor. From May 1987 till March 1997 TERRORISM was a valid descriptor.)

UF security control  
 SF document destruction  
 SF surveillance  
 SF terrorism  
 NT1 national security  
 RT classified information  
 RT cryptography  
 RT entry control systems  
 RT human intrusion  
 RT identification systems  
 RT interception  
 RT intrusion detection systems  
 RT motion detection systems  
 RT physical protection  
 RT physical protection devices  
 RT sabotage  
 RT safety  
 RT secrecy protection  
 RT security personnel  
 RT security violations  
 RT theft

**security (financial)**

INIS: 1976-12-08; ETDE: 2002-06-13  
 USE financial security

**security control**

INIS: 1990-12-21; ETDE: 2002-06-13  
 (Prior to December 1990, this was a valid descriptor.)  
 USE security

**SECURITY PERSONNEL**

INIS: 1983-06-30; ETDE: 1981-01-27  
 UF guards  
 BT1 personnel  
 RT nuclear materials diversion  
 RT physical protection  
 RT sabotage  
 RT safeguards  
 RT security

**SECURITY SEALS**

INIS: 1976-09-06; ETDE: 1976-11-01  
 BT1 physical protection devices  
 BT1 seals  
 RT safeguards

**SECURITY VIOLATIONS**

INIS: 2000-04-12; ETDE: 1983-03-24  
 BT1 violations  
 RT national security  
 RT personnel

RT secrecy protection  
 RT security

**SEDAN EVENT**

\*BT1 cratering explosions  
 BT1 plowshare project

**sedatives**

USE hypnotics and sedatives

**sediment basins**

INIS: 2000-04-12; ETDE: 1985-10-10  
 USE settling ponds

**SEDIMENT-WATER INTERFACES**

INIS: 1985-04-22; ETDE: 1980-07-09  
 Boundary between sediment surface and overlying water.

BT1 interfaces  
 RT limnology  
 RT sea bed  
 RT sediments

**SEDIMENTARY BASINS**

INIS: 1992-06-15; ETDE: 1980-03-04  
 Geologically depressed sediment-filled areas.

UF basins (sedimentary)  
 BT1 geologic structures  
 NT1 appalachian basin  
 NT2 chattanooga formation  
 NT1 williston basin  
 RT limnology  
 RT powder river basin  
 RT sedimentary rocks

**sedimentary intrusive rocks**

INIS: 1985-10-23; ETDE: 2002-06-13  
 USE plutonic rocks

**SEDIMENTARY ROCKS**

BT1 rocks  
 NT1 carbonate rocks  
 NT2 limestone  
 NT3 travertine  
 NT1 chert  
 NT1 conglomerates  
 NT2 calcretes  
 NT1 evaporites  
 NT1 phosphate rocks  
 NT2 phosphorites  
 NT1 sandstones  
 NT2 graywacke  
 NT1 shales  
 NT2 argillite  
 NT2 oil shales  
 NT3 black shales  
 NT1 siltstones  
 NT1 sinters  
 RT fossils  
 RT sedimentary basins

**SEDIMENTATION**

UF deposition (gravitational)  
 RT aerosols  
 RT centrifugation  
 RT decantation  
 RT dusts  
 RT fallout  
 RT fallout deposits  
 RT particles  
 RT precipitation  
 RT sediments  
 RT settling ponds

**SEDIMENTOMETERS**

2000-04-12  
 BT1 measuring instruments  
 RT densimeters  
 RT radiometric gages

**SEDIMENTS**

RT alluvial deposits

RT catagenesis  
 RT detritus  
 RT diagenesis  
 RT dredge spoil  
 RT environmental materials  
 RT geologic deposits  
 RT pore pressure  
 RT river deltas  
 RT sea bed  
 RT sediment-water interfaces  
 RT sedimentation  
 RT silt  
 RT sludges

**SEEBECK EFFECT**

RT thermoelectricity

**SEED RECOVERY**

2000-04-12

SF recovery  
 RT mhd generators  
 RT plasma seeding  
 RT seed-slag interactions  
 RT spent seed

**SEED-SLAG INTERACTIONS**

INIS: 1985-07-23; ETDE: 1979-04-11

RT chemical reactions  
 RT coal-fired mhd generators  
 RT mhd generators  
 RT plasma seeding  
 RT seed recovery  
 RT slags

**seeding (plasma)**

INIS: 1976-10-29; ETDE: 2002-06-13

USE plasma seeding

**seedis**

INIS: 2000-04-12; ETDE: 1981-11-10

*Computer index of social, economic, environmental, and demographic data.*  
 (Prior to January 1995, this was a valid descriptor.)

SEE information systems

**SEEDLINGS**

RT coleoptile  
 RT germination  
 RT plants

**SEEDS**

UF fruit (seeds)  
 UF grains (cereal)  
 NT1 coffee beans  
 NT1 mungbeans  
 NT1 peanuts  
 NT1 peas  
 NT1 soybeans  
 RT beans  
 RT buffalo gourd  
 RT endosperm  
 RT food  
 RT germination  
 RT plants  
 RT vernalization

**SEEPS**

INIS: 2000-04-12; ETDE: 1977-04-12

*Locations where liquid petroleum or natural gas emerges at the surface as a result of the slow migration from its buried source through minute pores or fissure networks.*

RT geochemical surveys  
 RT natural gas deposits  
 RT petroleum deposits

**SEFOR REACTOR**

US AEC/General Electric Co., near Fayetteville, Arkansas, USA.

UF southwest experimental fast oxide reactor

\*BT1 experimental reactors  
 \*BT1 fast reactors  
 \*BT1 plutonium reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors

**segas process**

INIS: 2000-04-12; ETDE: 1978-04-05

*A noncatalytic thermal steam reformer process for production of synthesis gas from residual fuel oils or heavy crudes.*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE steam reformer processes

**SEGREGATION**

RT guinier-preston zones  
 RT impurities  
 RT solidification

**SEIBERSDORF IAEA LABORATORY**

INIS: 1988-04-15; ETDE: 1988-05-23

UF iaea seibersdorf laboratory

\*BT1 iaea

**SEIBERSDORF RESEARCH CENTRE**

INIS: 1988-06-22; ETDE: 1988-07-15

UF austrian research center seibersdorf

UF oefzs

\*BT1 austrian organizations

RT astra reactor

**SEIDB**

INIS: 2000-04-12; ETDE: 1981-07-18

UF solar energy information data bank

BT1 information systems

**SEISMIC ARRAYS**

INIS: 1992-09-01; ETDE: 1978-12-11

BT1 measuring instruments  
 RT seismic detection  
 RT seismic detectors  
 RT seismic sources  
 RT seismic surveys  
 RT seismographs

**SEISMIC DETECTION**

UF detection (seismic)  
 BT1 detection  
 NT1 in-country detection  
 RT nuclear explosion detection  
 RT rayleigh waves  
 RT seismic arrays  
 RT seismic detectors  
 RT seismic noise  
 RT seismic p waves  
 RT seismic s waves  
 RT seismic waves  
 RT seismographs  
 RT underground explosions  
 RT vela project

**SEISMIC DETECTORS**

INIS: 1992-09-01; ETDE: 1976-09-14

UF geophones  
 BT1 measuring instruments  
 RT ground motion  
 RT seismic arrays  
 RT seismic detection  
 RT seismic surveys  
 RT seismic waves  
 RT seismographs

**SEISMIC EFFECTS**

2000-04-07

RT blast effects  
 RT earthquakes  
 RT ground motion  
 RT landslides  
 RT nuclear explosions  
 RT seismic events  
 RT seismic isolation

RT seismic noise  
 RT seismic waves  
 RT shock absorbers  
 RT shock waves  
 RT soil-structure interactions  
 RT underground explosions

**SEISMIC EVENTS**

INIS: 1992-06-19; ETDE: 1976-12-16

NT1 earthquakes  
 NT2 microearthquakes  
 RT explosions  
 RT ground motion  
 RT nuclear explosions  
 RT rock bursts  
 RT seismic effects  
 RT seismic waves  
 RT tsunamis

**SEISMIC ISOLATION**

INIS: 1990-09-24; ETDE: 1990-10-09

RT earthquakes  
 RT safety engineering  
 RT seismic effects  
 RT shock absorbers  
 RT soil-structure interactions

**SEISMIC NOISE**

1976-10-29

*A more or less continuous motion in the earth unrelated to an earthquake with a period of 1 to 9 seconds.*

UF microseism  
 BT1 noise  
 RT seismic detection  
 RT seismic effects  
 RT seismic waves

**SEISMIC P WAVES**

UF body waves p (seismic)  
 UF p waves (seismic)  
 BT1 seismic waves  
 RT earthquakes  
 RT seismic detection  
 RT underground explosions

**SEISMIC S WAVES**

INIS: 1980-05-14; ETDE: 1976-11-17

UF body waves s (seismic)  
 UF s waves (seismic)  
 UF shear waves (seismic)  
 BT1 seismic waves  
 RT earthquakes  
 RT seismic detection  
 RT underground explosions

**SEISMIC SOURCES**

INIS: 1999-03-08; ETDE: 1976-09-14

*Devices for generating seismic pulses.*

RT seismic arrays  
 RT seismic surveys  
 RT seismic waves  
 RT sonic logging  
 RT sound waves

**SEISMIC SURFACE WAVES**

INIS: 1999-09-17; ETDE: 1978-07-05

*Seismic waves that travel along the surface of the earth or parallel to the earth's surface.*

(From July 1978 till March 1997 LOVE WAVES was a valid ETDE descriptor.)

UF l waves  
 UF love waves  
 UF surface waves (seismic)  
 BT1 seismic waves  
 RT earthquakes  
 RT rayleigh waves



**SEISMIC SURVEYS**

1975-11-07

*Methods of geophysical prospecting using the generation, reflection, refraction, detection, and analysis of elastic waves in the earth.*

- \*BT1 geophysical surveys
- RT acoustic measurements
- RT geologic structures
- RT geothermal exploration
- RT magnetic surveys
- RT seismic arrays
- RT seismic detectors
- RT seismic sources

**SEISMIC WAVES**

*Disturbances or earth tremors produced by mechanical disturbances on the surface or underground.*

- NT1 seismic p waves
- NT1 seismic s waves
- NT1 seismic surface waves
- RT earthquakes
- RT ground motion
- RT rayleigh waves
- RT seismic detection
- RT seismic detectors
- RT seismic effects
- RT seismic events
- RT seismic noise
- RT seismic sources
- RT seismographs
- RT seismology
- RT tsunamis
- RT underground explosions

**SEISMICITY**

INIS: 1994-07-01; ETDE: 1978-07-05

*Measure of frequency of earthquakes.*

(Until June 1994 this concept was indexed to EARTHQUAKES.)

- RT earthquakes
- RT risk assessment
- RT subduction zones

**SEISMOGRAPHS**

- BT1 measuring instruments
- RT acoustic measurements
- RT earthquakes
- RT ground motion
- RT seismic arrays
- RT seismic detection
- RT seismic detectors
- RT seismic waves
- RT underground explosions

**SEISMOLOGY**

*The study of earthquakes, by extension, the study of the structure of the interior of the earth via both natural and artificially generated seismic signals.*

(From September 1979 till February 1997

DISPLACEMENT RATES was a valid ETDE descriptor.)

- SF displacement rates
- RT earthquakes
- RT geologic faults
- RT geologic structures
- RT ground motion
- RT seismic waves
- RT shock waves
- RT underground explosions
- RT vela project

**SELECTION RULES**

- NT1 superselection rules
- RT decay
- RT energy-level transitions
- RT forbidden transitions
- RT interactions
- RT quantum mechanics

RT spurions

**SELECTIVE CATALYTIC REDUCTION**

INIS: 1992-07-21; ETDE: 1990-02-28

- \*BT1 denitrification
- \*BT1 reduction
- RT air pollution control
- RT catalysis
- RT flue gas
- RT nitrogen oxides

**SELENATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1 oxygen compounds
- BT1 selenium compounds
- RT selenium oxides

**selengut approximation**

2000-04-12

(Prior to August 1996 SELENGUT-GOERTZEL EQUATION was a valid ETDE descriptor.)

- USE neutron slowing-down theory

**selengut-goertzel equation**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

- USE neutron slowing-down theory

**SELENIDES**

1997-06-19

- BT1 chalcogenides
- BT1 selenium compounds
- NT1 aluminium selenides
- NT1 americium selenides
- NT1 antimony selenides
- NT1 arsenic selenides
- NT1 berkelium selenides
- NT1 beryllium selenides
- NT1 bismuth selenides
- NT1 cadmium selenides
- NT1 californium selenides
- NT1 cerium selenides
- NT1 cesium selenides
- NT1 chromium selenides
- NT1 cobalt selenides
- NT1 copper selenides
- NT1 curium selenides
- NT1 dysprosium selenides
- NT1 erbium selenides
- NT1 europium selenides
- NT1 gadolinium selenides
- NT1 gallium selenides
- NT1 germanium selenides
- NT1 hafnium selenides
- NT1 holmium selenides
- NT1 indium selenides
- NT1 iron selenides
- NT1 lanthanum selenides
- NT1 lead selenides
- NT1 lithium selenides
- NT1 lutetium selenides
- NT1 manganese selenides
- NT1 mercury selenides
- NT1 molybdenum selenides
- NT1 neptunium selenides
- NT1 nickel selenides
- NT1 niobium selenides
- NT1 palladium selenides
- NT1 plutonium selenides
- NT1 potassium selenides
- NT1 praseodymium selenides
- NT1 rhenium selenides
- NT1 rhodium selenides
- NT1 rubidium selenides

- NT1 ruthenium selenides
- NT1 samarium selenides
- NT1 scandium selenides
- NT1 silver selenides
- NT1 sodium selenides
- NT1 tantalum selenides
- NT1 technetium selenides
- NT1 terbium selenides
- NT1 thallium selenides
- NT1 thorium selenides
- NT1 thulium selenides
- NT1 tin selenides
- NT1 titanium selenides
- NT1 tungsten selenides
- NT1 uranium selenides
- NT1 vanadium selenides
- NT1 ytterbium selenides
- NT1 yttrium selenides
- NT1 zinc selenides
- NT1 zirconium selenides
- RT intermetallic compounds
- RT oxyselenides
- RT selenium alloys

**SELENITES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1 oxygen compounds
- BT1 selenium compounds

**SELENIUM**

- \*BT1 semimetals

**SELENIUM 64**

2007-03-16

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 selenium isotopes

**SELENIUM 65**

1993-06-25

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 selenium isotopes

**SELENIUM 66**

INIS: 2003-01-03; ETDE: 2002-12-26

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 proton decay radioisotopes
- \*BT1 selenium isotopes

**SELENIUM 67**

INIS: 1996-06-17; ETDE: 1996-05-31

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 selenium isotopes

**SELENIUM 68**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 selenium isotopes

**SELENIUM 69**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 selenium isotopes

**SELENIUM 70**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 selenium isotopes

**SELENIUM 71**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 selenium isotopes

**SELENIUM 72**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 selenium isotopes

**SELENIUM 72 TARGET**

- INIS: 1976-02-11; ETDE: 1976-07-12*  
BT1 targets

**SELENIUM 73**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 selenium isotopes

**SELENIUM 74**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 selenium isotopes
- \*BT1 stable isotopes

**SELENIUM 74 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**SELENIUM 75**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 selenium isotopes

**SELENIUM 75 TARGET**

- INIS: 1984-06-21; ETDE: 1982-10-20*  
BT1 targets

**SELENIUM 76**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 selenium isotopes
- \*BT1 stable isotopes

**SELENIUM 76 REACTIONS**

- INIS: 1988-06-22; ETDE: 1988-07-15*  
\*BT1 heavy ion reactions

**SELENIUM 76 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**SELENIUM 77**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 selenium isotopes
- \*BT1 stable isotopes

**SELENIUM 77 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**SELENIUM 78**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 selenium isotopes
- \*BT1 stable isotopes

**SELENIUM 78 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**SELENIUM 79**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 selenium isotopes
- \*BT1 years living radioisotopes

**SELENIUM 80**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 selenium isotopes
- \*BT1 stable isotopes

**SELENIUM 80 REACTIONS**

- INIS: 1986-01-21; ETDE: 1986-02-21*  
\*BT1 heavy ion reactions

**SELENIUM 80 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**SELENIUM 81**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 selenium isotopes

**SELENIUM 82**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 selenium isotopes
- \*BT1 stable isotopes

**SELENIUM 82 REACTIONS**

- INIS: 1980-12-01; ETDE: 1981-01-09*  
\*BT1 heavy ion reactions

**SELENIUM 82 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**SELENIUM 83**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 selenium isotopes

**SELENIUM 84**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 selenium isotopes

**SELENIUM 85**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 selenium isotopes

**SELENIUM 86**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

- \*BT1 selenium isotopes

**SELENIUM 87**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 selenium isotopes

**SELENIUM 88**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 selenium isotopes

**SELENIUM 89**

*1976-07-06*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 selenium isotopes

**SELENIUM 91**

*1976-03-17*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 selenium isotopes

**SELENIUM ADDITIONS**

- \*BT1 selenium alloys

**SELENIUM ALLOYS**

*Alloys containing more than 1% Se.*

- BT1 alloys
- NT1 selenium additions
- RT selenides

**SELENIUM BROMIDES**

- \*BT1 bromides
- BT1 selenium compounds

**SELENIUM CARBIDES**

*INIS: 1996-07-08; ETDE: 2002-06-13*

(From June 1996 to November 2007 SELENIUM COMPOUNDS + CARBIDES was used for this concept.)

- \*BT1 carbides
- BT1 selenium compounds

**SELENIUM CHLORIDES**

- \*BT1 chlorides
- BT1 selenium compounds

**SELENIUM COMPLEXES**

- BT1 complexes

**SELENIUM COMPOUNDS**

*1996-07-08*

- NT1 oxyselenides
- NT1 selenates
- NT1 selenides
- NT2 aluminium selenides
- NT2 americium selenides
- NT2 antimony selenides
- NT2 arsenic selenides
- NT2 berkelium selenides
- NT2 beryllium selenides
- NT2 bismuth selenides
- NT2 cadmium selenides
- NT2 californium selenides
- NT2 cerium selenides
- NT2 cesium selenides
- NT2 chromium selenides
- NT2 cobalt selenides
- NT2 copper selenides
- NT2 curium selenides
- NT2 dysprosium selenides
- NT2 erbium selenides
- NT2 europium selenides

NT2 gadolinium selenides  
 NT2 gallium selenides  
 NT2 germanium selenides  
 NT2 hafnium selenides  
 NT2 holmium selenides  
 NT2 indium selenides  
 NT2 iron selenides  
 NT2 lanthanum selenides  
 NT2 lead selenides  
 NT2 lithium selenides  
 NT2 lutetium selenides  
 NT2 manganese selenides  
 NT2 mercury selenides  
 NT2 molybdenum selenides  
 NT2 neptunium selenides  
 NT2 nickel selenides  
 NT2 niobium selenides  
 NT2 palladium selenides  
 NT2 plutonium selenides  
 NT2 potassium selenides  
 NT2 praseodymium selenides  
 NT2 rhenium selenides  
 NT2 rhodium selenides  
 NT2 rubidium selenides  
 NT2 ruthenium selenides  
 NT2 samarium selenides  
 NT2 scandium selenides  
 NT2 silver selenides  
 NT2 sodium selenides  
 NT2 tantalum selenides  
 NT2 technetium selenides  
 NT2 terbium selenides  
 NT2 thallium selenides  
 NT2 thorium selenides  
 NT2 thulium selenides  
 NT2 tin selenides  
 NT2 titanium selenides  
 NT2 tungsten selenides  
 NT2 uranium selenides  
 NT2 vanadium selenides  
 NT2 ytterbium selenides  
 NT2 yttrium selenides  
 NT2 zinc selenides  
 NT2 zirconium selenides

NT1 selenites  
 NT1 selenium bromides  
 NT1 selenium carbides  
 NT1 selenium chlorides  
 NT1 selenium fluorides  
 NT1 selenium hydrides  
 NT1 selenium iodides  
 NT1 selenium oxides  
 NT1 selenium sulfides  
 NT1 selenium tellurides  
 NT1 tmsf

**SELENIUM FLUORIDES**

\*BT1 fluorides  
 BT1 selenium compounds

**SELENIUM HYDRIDES**

UF hydrogen selenides  
 \*BT1 hydrides  
 BT1 selenium compounds

**SELENIUM IODIDES**

\*BT1 iodides  
 BT1 selenium compounds

**SELENIUM IONS**

\*BT1 ions

**SELENIUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 selenium 64  
 NT1 selenium 65  
 NT1 selenium 66  
 NT1 selenium 67  
 NT1 selenium 68  
 NT1 selenium 69

NT1 selenium 70  
 NT1 selenium 71  
 NT1 selenium 72  
 NT1 selenium 73  
 NT1 selenium 74  
 NT1 selenium 75  
 NT1 selenium 76  
 NT1 selenium 77  
 NT1 selenium 78  
 NT1 selenium 79  
 NT1 selenium 80  
 NT1 selenium 81  
 NT1 selenium 82  
 NT1 selenium 83  
 NT1 selenium 84  
 NT1 selenium 85  
 NT1 selenium 86  
 NT1 selenium 87  
 NT1 selenium 88  
 NT1 selenium 89  
 NT1 selenium 91

**selenium ores**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE ores

**SELENIUM OXIDES**

\*BT1 oxides  
 BT1 selenium compounds  
 RT guillemite  
 RT oxide minerals  
 RT selenates

**SELENIUM SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1975-11-11

\*BT1 solar cells

**SELENIUM SULFIDES**

BT1 selenium compounds  
 \*BT1 sulfides

**SELENIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1982-05-12

BT1 selenium compounds  
 \*BT1 tellurides

**SELEXOL PROCESS**

2000-04-12

Process for gas purification and removal of hydrogen sulfide, carbon dioxide, cos, mercaptans, etc., from gas streams by physical absorption using dimethyl ether of polyethylene glycol, trade named seloxol.

\*BT1 desulfurization

**SELF-ABSORPTION**

\*BT1 absorption

**SELF-CONSISTENT FIELD**

RT atomic models  
 RT hartree-fock-bogolyubov theory  
 RT hartree-fock method  
 RT lcao method  
 RT mean-field theory

**SELF-DIFFUSION**

BT1 diffusion

**SELF-ENERGY**

BT1 energy  
 RT quantum electrodynamics

**SELF-IRRADIATION**

BT1 irradiation  
 RT autoradiolysis  
 RT radiation effects

**self-learning systems**

INIS: 2004-05-28; ETDE: 2004-06-01

USE adaptive systems

**self-potential logging**

INIS: 1984-04-04; ETDE: 1976-06-07

(Prior to January 2003 INIS used WELL LOGGING for this concept.)

USE sp logging

**SELF-POTENTIAL SURVEYS**

INIS: 2000-04-12; ETDE: 1976-08-24

Electrical surveys based on the detection of electric potentials developed in the earth.

\*BT1 electrical surveys

**SELF-POWERED DETECTORS**

\*BT1 radiation detectors

NT1 self-powered gamma detectors

NT1 self-powered neutron detectors

RT compton diode detectors

**SELF-POWERED GAMMA DETECTORS**

\*BT1 self-powered detectors

**SELF-POWERED NEUTRON DETECTORS**

UF collectrons

\*BT1 neutron detectors

\*BT1 self-powered detectors

**SELF-PUMPING SYSTEMS**

INIS: 2000-04-12; ETDE: 1979-11-07

BT1 circulating systems

RT pumping

RT pumps

RT thermosyphon effect

**self-serve stations**

INIS: 2000-04-12; ETDE: 1979-05-09

USE gasoline service stations

**SELF-SHIELDING**

RT absorption

RT shielding

**SELF-WELDING**

INIS: 1999-07-13; ETDE: 1979-08-07

The bonding of surfaces of similar materials after exposure to high-temperature and load conditions.

RT welding

**SELLAFIELD REPROCESSING PLANT**

INIS: 1984-06-21; ETDE: 1984-07-10

UF windscale reprocessing plant

\*BT1 fuel reprocessing plants

**SELLBACK**

INIS: 1993-01-21; ETDE: 1980-03-04

Sellback of excess energy to a public utility by a consumer.

UF buyback

RT economics

RT interconnected power systems

RT legal aspects

RT public utilities

RT surplus power

**sellers**

INIS: 1992-04-03; ETDE: 1979-10-03

USE marketers

**SELNI REACTOR**

UF trino vercellese reactor

\*BT1 pwr type reactors

**selox process**

INIS: 2000-04-12; ETDE: 1985-10-25

The selective oxidation (selox) process involves the partial oxidation of methane in a catalytic fluid bed reactor to generate synthesis gas. The synthesis gas produced has

*a stoichiometry which is attractive for methanol synthesis.*

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

### sem (microscopy)

INIS: 2000-04-12; ETDE: 1979-10-03

USE scanning electron microscopy

### SEMI-EXCLUSIVE INTERACTIONS

INIS: 1987-11-02; ETDE: 1987-12-23

\*BT1 exclusive interactions

RT semi-inclusive interactions

### semi-homogeneous critical assembly

1993-11-09

USE shca reactor

### SEMI-INCLUSIVE INTERACTIONS

INIS: 1981-10-15; ETDE: 1979-05-02

\*BT1 inclusive interactions

RT semi-exclusive interactions

### SEMIBATCH CULTURE

INIS: 2000-04-12; ETDE: 1978-06-14

RT aerobic digestion

RT anaerobic digestion

RT batch culture

RT continuous culture

RT culture media

RT fermentation

RT single cell protein

### SEMICARBAZIDES

\*BT1 carbonic acid derivatives

\*BT1 organic nitrogen compounds

\*BT1 organic oxygen compounds

### SEMICARBAZONES

\*BT1 carbonic acid derivatives

\*BT1 organic nitrogen compounds

RT aldehydes

RT ketones

### semicircular spectrometers

USE flat magnetic spectrometers

### SEMICLASSICAL APPROXIMATION

UF sca model

\*BT1 approximations

RT quantum mechanics

RT scattering

### SEMICOKE

INIS: 2000-04-12; ETDE: 1976-02-19

*The solid residue obtained by carbonization, esp. of coal at a relatively low temperature (as below 700 degrees C) that is in general softer and more friable than coke from carbonization at higher temperatures, that gives a hot smokeless fire, and that can be used as a domestic fuel.*

RT coke

RT coking

RT fuels

RT semicoking

### SEMICOKING

INIS: 2000-04-12; ETDE: 1976-02-19

RT coke

RT coking

RT fuels

RT semicoke

### semiconductor counters

USE semiconductor detectors

### SEMICONDUCTOR DETECTORS

UF semiconductor counters

\*BT1 radiation detectors

NT1 bulk semiconductor detectors

NT1 cdte semiconductor detectors

NT1 ge semiconductor detectors

NT2 high-purity ge detectors

NT2 li-drifted ge detectors

NT1 hgi2 semiconductor detectors

NT1 insb semiconductor detectors

NT1 junction detectors

NT2 li-drifted junction detectors

NT1 li-drifted detectors

NT2 li-drifted ge detectors

NT2 li-drifted junction detectors

NT2 li-drifted si detectors

NT1 si semiconductor detectors

NT2 li-drifted si detectors

NT2 si microstrip detectors

NT1 surface barrier detectors

RT dosimeters

RT radiator counters

RT semiconductor devices

### SEMICONDUCTOR DEVICES

NT1 charge-coupled devices

NT1 semiconductor diodes

NT2 germanium diodes

NT2 junction diodes

NT2 light emitting diodes

NT2 photodiodes

NT2 schottky barrier diodes

NT2 silicon diodes

NT2 switching diodes

NT2 tunnel diodes

NT2 variable capacitance diodes

NT1 semiconductor lasers

NT1 semiconductor rectifiers

NT1 semiconductor resistors

NT1 semiconductor storage devices

NT1 semiconductor switches

NT1 thermistors

NT1 thyristors

NT1 transistors

NT2 field effect transistors

NT3 mosfet

NT2 junction transistors

NT2 mis transistors

NT2 mos transistors

NT3 mosfet

NT2 phototransistors

NT2 surface barrier transistors

RT depletion layer

RT display devices

RT electrical equipment

RT electronic equipment

RT miniaturization

RT oscillators

RT photoelectric cells

RT semiconductor detectors

### SEMICONDUCTOR DIODES

UF diodes (semiconductor)

BT1 semiconductor devices

NT1 germanium diodes

NT1 junction diodes

NT1 light emitting diodes

NT1 photodiodes

NT1 schottky barrier diodes

NT1 silicon diodes

NT1 switching diodes

NT1 tunnel diodes

NT1 variable capacitance diodes

RT betavoltaic cells

RT photovoltaic cells

RT semiconductor junctions

RT semiconductor rectifiers

RT thermionic diodes

### SEMICONDUCTOR JUNCTIONS

SF junctions

NT1 heterojunctions

NT1 homojunctions

NT1 mim junctions

NT1 p-n junctions

RT junction detectors

RT junction transistors

RT semiconductor diodes

RT semiconductor materials

### SEMICONDUCTOR LASERS

BT1 semiconductor devices

\*BT1 solid state lasers

### SEMICONDUCTOR MATERIALS

*If known, coordinate with descriptors for the specific materials.*

UF materials (semiconductor)

BT1 materials

NT1 magnetic semiconductors

NT1 n-type conductors

NT1 organic semiconductors

NT1 p-type conductors

RT depletion layer

RT doped materials

RT electric conductors

RT electron mobility

RT fano factor

RT graded band gaps

RT nanostructures

RT p-n junctions

RT photoconductors

RT semiconductor junctions

RT semimetals

RT thermoelectric materials

RT traps

### SEMICONDUCTOR RECTIFIERS

\*BT1 rectifiers

BT1 semiconductor devices

RT semiconductor diodes

### SEMICONDUCTOR RESISTORS

UF varistors

\*BT1 resistors

BT1 semiconductor devices

### SEMICONDUCTOR STORAGE DEVICES

BT1 memory devices

BT1 semiconductor devices

### SEMICONDUCTOR SWITCHES

BT1 semiconductor devices

\*BT1 switches

### semidiurnal variation

USE daily variations

### semihomogeneous critical assembly

INIS: 1993-11-09; ETDE: 2002-06-13

USE shca reactor

### SEMILEPTONIC DECAY

INIS: 1978-02-23; ETDE: 1978-05-01

*Weak decay with at least one neutrino and hadron among the decay products.*

\*BT1 weak particle decay

RT beta decay

RT leptonic decay

RT leptons

RT neutrinos

RT weak hadronic decay

### SEMIMETALS

UF metalloids

BT1 elements

NT1 arsenic

NT1 boron

NT1 selenium

NT1 silicon

NT1 tellurium

RT alloys

RT intermetallic compounds

RT metals

RT nonmetals

RT semiconductor materials

**seminal vesicles**

USE male genitals

**SEMIPALATINSK TEST SITE**

INIS: 1997-11-07; ETDE: 1998-06-01

BT1 nuclear test sites  
RT kazakhstan  
RT nuclear explosions  
RT nuclear weapons**sena reactor**

Societe d'Energie Nucleaire des Ardennes reactor, Chooz.

USE ardennes reactor

**SENDAI-1 REACTOR**

INIS: 1979-09-18; ETDE: 1979-10-23

Kyushu Electric Power Co., Sendai, Kagoshima, Japan.

UF kyushu-3 reactor

\*BT1 pwr type reactors

**SENDAI-2 REACTOR**

INIS: 1982-06-09; ETDE: 1982-07-08

Kyushu Electric Power Co., Sendai, Kagoshima, Japan.

\*BT1 pwr type reactors

**sendai cyclotron**

INIS: 1983-06-30; ETDE: 2000-09-20

USE tohoku cyclotron

**SENEGAL**BT1 africa  
BT1 developing countries**SENGIERITE**

2000-04-12

\*BT1 oxide minerals  
\*BT1 uranium minerals  
RT copper oxides  
RT uranium oxides  
RT vanadium oxides**senior centers**

INIS: 2000-04-12; ETDE: 1981-01-09

USE public buildings

**senior executive service**

INIS: 2000-04-12; ETDE: 1981-06-13

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE management  
SEE personnel**SENIORITY NUMBER**BT1 quantum numbers  
RT quantum mechanics**senn reactor**

USE garigliano reactor

**SENSE ORGANS**\*BT1 organs  
NT1 auditory organs  
NT1 eyes  
NT2 conjunctiva  
NT2 cornea  
NT2 crystalline lens  
NT2 lacrimal ducts  
NT2 retina  
NT2 uvea  
NT1 taste buds  
NT1 vestibular apparatus  
RT chemoreceptors  
RT head  
RT nervous system  
RT nose  
RT olfactory bulbs  
RT organoleptic properties  
RT receptors  
RT reflexes

RT sense organs diseases

RT sensors

**SENSE ORGANS DISEASES**BT1 diseases  
NT1 cataracts  
NT1 conjunctivitis  
RT nervous system diseases  
RT ophthalmology  
RT sense organs  
RT skin diseases**SENSIBLE HEAT STORAGE**

INIS: 1993-06-04; ETDE: 1977-06-30

Storage of thermal energy utilizing the specific heat capacity of a material without changing the phase of the material.

\*BT1 heat storage  
RT rock beds  
RT seasonal thermal energy storage  
RT tanks  
RT thermal energy storage equipment  
RT thermal mass  
RT trombe walls  
RT water walls**SENSITIVITY**

The quantitative aspect concerned with the threshold for detecting a given material, property, etc.

UF detection limits  
UF heat stability  
NT1 photosensitivity  
NT1 radiosensitivity  
RT accuracy  
RT biological adaptation  
RT biological effects  
RT dead time  
RT resolution  
RT specificity  
RT spectral response**SENSITIVITY ANALYSIS**

INIS: 1981-02-27; ETDE: 1979-07-18

Response of a mathematical model to variations of the input parameters.

RT calculation methods  
RT computer calculations  
RT errors  
RT mathematical models  
RT parametric analysis  
RT response functions**SENSITIZERS**

BT1 reagents

**SENSORS**

2007-06-29

Coordinate this descriptor with one for the instrument of which the sensor is a component.

RT electronic equipment  
RT measuring instruments  
RT probes  
RT remote sensing  
RT sense organs**seoul triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE triga-2-seoul reactor

**seoul triga-mk-3 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE triga-3-seoul reactor

**sepa**

INIS: 2000-04-12; ETDE: 1980-03-29

USE southeastern power administration

**SEPARATED ORBIT CYCLOTRONS**

1996-01-24

\*BT1 cyclotrons

**separation energy**

USE binding energy

**SEPARATION EQUIPMENT**

INIS: 1986-07-09; ETDE: 1981-05-18

SF oil-water separators  
BT1 equipment  
NT1 extraction apparatuses  
NT2 extraction columns  
NT2 mist extractors  
NT2 mixer-settlers  
NT2 podbielniak contactors  
NT1 inertial separators  
NT2 cyclone separators  
NT1 isotope separators  
NT1 vapor separators  
NT2 steam separators  
RT separation processes**SEPARATION NOZZLE METHOD**\*BT1 isotope separation  
RT nozzles**SEPARATION PROCESSES**

1997-06-17

(Prior to August 1996 SLUREX PROCESS was a valid ETDE descriptor.)

UF slurex process  
NT1 carbon sequestration  
NT1 centrifugation  
NT2 gas centrifugation  
NT2 ultracentrifugation  
NT1 chemisorption  
NT1 chromatography  
NT2 extraction chromatography  
NT2 gas chromatography  
NT2 gel permeation chromatography  
NT2 ion exchange chromatography  
NT2 liquid column chromatography  
NT3 high-performance liquid chromatography  
NT2 radiochromatography  
NT2 supercritical fluid chromatography  
NT2 thermochromatography  
NT2 thin-layer chromatography  
NT1 cng process  
NT1 decantation  
NT1 demetallization  
NT1 demineralization  
NT2 desalination  
NT1 dewaxing  
NT1 dialysis  
NT2 electro dialysis  
NT1 distillation  
NT2 destructive distillation  
NT2 solar distillation  
NT2 vacuum distillation  
NT1 electrostatic separation  
NT1 elutriation  
NT1 extraction  
NT2 deasphalting  
NT2 reductive extraction  
NT2 solvent extraction  
NT3 phenosolvan process  
NT3 supercritical gas extraction  
NT1 filtration  
NT2 ultrafiltration  
NT1 flotation  
NT1 foam separation  
NT1 fractionation  
NT1 freezing out  
NT1 heavy media separation  
NT2 otisca process  
NT1 isotope separation  
NT2 dual temperature process  
NT2 electromagnetic isotope separation  
NT2 gas centrifugation  
NT2 gaseous diffusion process  
NT2 laser isotope separation  
NT2 separation nozzle method

**NT1** leaching  
**NT2** microbial leaching  
**NT1** licado process  
**NT1** metal transfer process  
**NT1** multi-element separation  
**NT1** ore enrichment  
**NT1** phosam process  
**NT1** precipitation  
**NT2** coprecipitation  
**NT2** flocculation  
**NT1** precipitation scavenging  
**NT1** reprocessing  
**NT2** airox process  
**NT2** amex process  
**NT2** chloride volatility process  
**NT2** civex process  
**NT2** csrex process  
**NT2** dapex process  
**NT2** diamex process  
**NT2** eurex process  
**NT2** fluoride volatility process  
**NT2** iodox process  
**NT2** purex process  
**NT2** pyrochemical reprocessing  
**NT2** redox process  
**NT2** sesame process  
**NT2** talspeak process  
**NT2** thorex process  
**NT2** tramex process  
**NT2** truex process  
**NT2** zirflex process  
**NT1** zone refining  
*RT* adsorption  
*RT* concentrators  
*RT* crystallization  
*RT* cyclone separators  
*RT* dust collectors  
*RT* electrophoresis  
*RT* electrostatic precipitators  
*RT* ion exchange  
*RT* jigs  
*RT* magnetic filters  
*RT* magnetic separators  
*RT* particle size classifiers  
*RT* purification  
*RT* refining  
*RT* screens  
*RT* scrubbing  
*RT* separation equipment  
*RT* sorting  
*RT* sublimation  
*RT* supported liquid membranes  
*RT* tailings  
*RT* thermal diffusion

**separators (inertial)**

*INIS: 1976-10-07; ETDE: 2002-06-13*  
 USE inertial separators

**separators (steam)**

USE steam separators

**separators (vapor)**

USE vapor separators

**SEPIOLITE**

*INIS: 2000-04-12; ETDE: 1983-02-09*  
*A chain-lattice clay mineral.*  
 \*BT1 clays  
*RT* magnesium silicates

**SEPTICEMIA**

*RT* blood  
*RT* infectious diseases

**SEPTUM MAGNETS**

1999-07-02  
 \*BT1 magnets  
*RT* beam extraction  
*RT* beam optics  
*RT* electrostatic septa

*RT* magnet coils  
*RT* magnetic analyzers

**sequence analysis**

*INIS: 1984-04-04; ETDE: 2002-06-13*  
*Analysis of nucleotide and protein chains by means of radioisotope labelling.*  
 USE structural chemical analysis

**SEQUENTIAL CIRCUITS**

BT1 electronic circuits  
*RT* digital circuits

**SEQUENTIAL SCANNING**

*INIS: 1983-06-30; ETDE: 1983-07-20*  
 BT1 counting techniques  
*RT* biomedical radiography  
*RT* computerized tomography  
*RT* dynamic function studies  
*RT* image scanners

**sequestration (carbon oxides)**

2004-01-14  
 USE carbon sequestration

**sequestrene**

USE edta

**SEQUIM BAY**

*Site of new HAPO marine research lab.*  
 \*BT1 bays  
 \*BT1 pacific ocean  
*RT* hapo  
*RT* washington

**SEQUOYAH-1 REACTOR**

*TVA, Soddy-Daisy, Tennessee, USA.*  
*UF sequoyah nuclear power plant unit-1*  
 \*BT1 pwr type reactors

**SEQUOYAH-2 REACTOR**

*TVA, Soddy-Daisy, Tennessee, USA.*  
*UF sequoyah nuclear power plant unit-2*  
 \*BT1 pwr type reactors

**sequoyah nuclear power plant unit-1**

1999-09-17  
 USE sequoyah-1 reactor

**sequoyah nuclear power plant unit-2**

1999-09-17  
 USE sequoyah-2 reactor

**SEQUOYAH UF6 PRODUCTION**

**PLANT**  
 BT1 industrial plants  
 \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
*RT* oklahoma  
*RT* uranium hexafluoride

**SER REACTOR**

*Sandia Laboratories, Albuquerque, New Mexico, USA. Shut down in 1970.*  
*UF snap-2 experimental reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 nak cooled reactors  
 \*BT1 potassium cooled reactors  
 \*BT1 process heat reactors  
 \*BT1 sodium cooled reactors

**serber-goldberger model**

USE goldberger model

**SERBER THEORY**

*RT* stripping

**SERBIA**

2006-11-20  
*SF serbia and montenegro*  
*SF yugoslavia*  
 BT1 developing countries

\*BT1 eastern europe  
*RT* danube river

**serbia and montenegro**

2004-03-08  
 (From March 2004 till November 2006 this was a valid descriptor. From 1992 till March 2004 YUGOSLAVIA was used for this concept.)  
 SEE montenegro  
 SEE serbia

**seri**

*INIS: 1992-05-04; ETDE: 1978-02-14*  
 USE national renewable energy laboratory

**SERIES EXPANSION**

NT1 cluster expansion  
 NT1 neumann series  
 NT1 operator product expansion  
 NT1 power series  
*RT* boson expansion  
*RT* continued fractions  
*RT* convergence  
*RT* equations  
*RT* exact solutions  
*RT* functions  
*RT* mathematical evolution  
*RT* mathematics  
*RT* pade approximation  
*RT* spline functions  
*RT* superconvergence relations

**SERINE**

*UF hydroxy-alpha-alanine-beta*  
 \*BT1 amino acids  
 \*BT1 hydroxy acids

**SERINE PROTEINASES**

*INIS: 1986-12-03; ETDE: 1981-01-12*  
*Code number 3.4.21.*  
*UF properdin*  
 \*BT1 peptide hydrolases  
 NT1 chymotrypsin  
 NT1 fibrinolysin  
 NT1 kallikrein  
 NT1 thrombin  
 NT1 trypsin

**SEROTONIN**

\*BT1 hydroxy compounds  
 \*BT1 neuroregulators  
 \*BT1 radioprotective substances  
 \*BT1 sympathomimetics  
 \*BT1 tryptamines  
 NT1 bufotenine

**SEROUS MEMBRANES**

BT1 membranes  
 NT1 mesentery  
 NT1 pericardium  
 NT1 peritoneum  
 NT1 pleura

**SERPENTINE**

2000-04-12  
*A group of common rock-forming minerals.*  
 \*BT1 silicate minerals  
*RT* magnesium silicates

**SERPENTINITES**

*INIS: 2000-04-12; ETDE: 1980-08-12*  
 \*BT1 metamorphic rocks

**SERPUKHOV SYNCHROTRON**

\*BT1 synchrotrons  
*RT* ihep  
*RT* serpukhov tevatron

**SERPUKHOV TEVATRON**

*INIS: 1985-11-16; ETDE: 1985-12-13*  
 3-TeV accelerating-storage complex based on the Serpukhov synchrotron.

BT1 storage rings  
 \*BT1 synchrotrons  
 RT serpukhov synchrotron

**SERRATIA**

\*BT1 bacteria

**serum (blood)**

USE blood serum

**serum (immune)**

USE immune serums

**servers (computers)**

2005-05-25  
 USE computers

**SERVICE LIFE**

*INIS: 1992-02-26; ETDE: 1976-08-04*  
 UF life (service)  
 UF useful life  
 BT1 lifetime  
 NT1 lifetime extension  
 RT life-cycle cost

**SERVICE SECTOR**

*INIS: 1992-10-23; ETDE: 1980-08-12*  
 RT commercial sector  
 RT residential sector  
 RT sectoral analysis

**service stations**

*INIS: 2000-04-12; ETDE: 1979-05-09*  
 USE gasoline service stations

**service water systems**

1976-04-03  
 USE auxiliary water systems

**SERVOMECHANISMS**

\*BT1 control equipment  
 RT actuators  
 RT feedback  
 RT remote control

**SESAME OIL**

UF beni oil  
 UF benne oil  
 UF gigily oil  
 UF gingelly oil  
 UF gingily oil  
 UF teal oil  
 UF teel oil  
 UF til oil  
 \*BT1 vegetable oils  
 RT sesamum indicum

**SESAME PROCESS**

*INIS: 1998-06-30; ETDE: 1998-10-20*  
 \*BT1 reprocessing  
 RT americium  
 RT oxidation

**SESAMUM INDICUM**

*INIS: 2001-02-28; ETDE: 2002-01-18*  
 \*BT1 magnoliopsida  
 RT sesame oil

**SET THEORY**

*INIS: 1989-07-19; ETDE: 1979-05-03*  
 Study of structure and size of sets from viewpoint of axioms imposed.  
 BT1 mathematics  
 RT fuzzy logic  
 RT information theory  
 RT periodicity

**settlements (disputes)**

*INIS: 1976-12-08; ETDE: 2002-06-13*  
 USE dispute settlements

**SETTLING PONDS**

*INIS: 1990-04-19; ETDE: 1985-10-10*  
 UF sediment basins  
 \*BT1 ponds  
 RT drainage  
 RT runoff  
 RT sedimentation  
 RT waste processing

**SEVERANCE TAX**

*INIS: 2000-04-12; ETDE: 1981-03-17*  
 Tax on the taking and use of natural resources imposed at the time the mineral or other product is extracted.  
 UF production tax  
 BT1 taxes  
 RT resource depletion

**SEVERN RIVER**

*INIS: 1991-12-11; ETDE: 1976-01-07*  
 \*BT1 rivers  
 RT united kingdom

**SEWAGE**

*INIS: 1994-08-26; ETDE: 1976-01-27*  
 (Until August 1994 this concept was indexed to LIQUID WASTES.)  
 BT1 wastes  
 NT1 sewage sludge  
 RT activated sludge process  
 RT compost  
 RT organic wastes

**sewage disposal**

*ETDE: 2002-06-13*  
 USE liquid wastes  
 USE waste disposal

**SEWAGE SLUDGE**

*INIS: 1976-07-16; ETDE: 1976-01-23*  
 Precipitated solid matter from sewage treatment processes.  
 UF municipal sludge  
 UF sludges (sewage)  
 \*BT1 biological wastes  
 \*BT1 sewage  
 BT1 sludges  
 RT anaerobic digestion  
 RT ground disposal  
 RT slurries  
 RT soil conservation

**sewage treatment**

*ETDE: 2002-06-13*  
 USE liquid wastes  
 USE waste processing

**SEX**

RT female genitals  
 RT females  
 RT gonads  
 RT heterochromosomes  
 RT male genitals  
 RT males  
 RT mating  
 RT pheromone  
 RT reproduction  
 RT sex chromatin  
 RT sex dependence  
 RT sex ratio

**SEX CHROMATIN**

BT1 chromatin  
 RT sex

**sex chromosomes**

USE heterochromosomes

**SEX DEPENDENCE**

*INIS: 1976-10-07; ETDE: 1976-11-01*  
 RT females  
 RT males  
 RT sex

**SEX RATIO**

BT1 dimensionless numbers  
 RT progeny  
 RT sex

**seychelles (republic of)**

2003-05-23  
 USE republic of seychelles

**SEYFERT GALAXIES**

BT1 galaxies  
 RT bl lacertae objects  
 RT quasars

**sf nateko process**

*INIS: 2000-04-12; ETDE: 1976-01-23*  
 Desulfurization process for stack gases by countercurrent contact with lime slurry. (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE lime-limestone wet scrubbing processes

**sferics**

USE atmospheric

**SGHWR REACTOR**

UF steam generating heavy water reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 pressure tube reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors

**SGR TYPE REACTORS**

UF sodium cooled graphite moderated reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 sodium cooled reactors  
 NT1 sre reactor  
 RT power reactors

**SH-PROTEINASES**

*INIS: 1986-12-03; ETDE: 1981-01-12*  
 Code number 3.4.22.  
 \*BT1 peptide hydrolases  
 NT1 cathepsins  
 NT1 papain  
 NT1 streptococcal proteinase

**SHADING**

*INIS: 2000-04-12; ETDE: 1975-08-19*  
 RT curtains  
 RT shutters  
 RT solar flux  
 RT sun shades

**SHADOW EFFECT**

RT cross sections  
 RT nuclear reactions  
 RT scattering

**SHAFT EXCAVATIONS**

*INIS: 1981-03-27; ETDE: 1977-03-08*  
 Vertical or inclined openings of uniform and limited cross section, as made for mining ore.  
 SF shafts  
 NT1 mine shafts  
 NT2 abandoned shafts  
 RT excavation  
 RT konrad ore mine  
 RT mines  
 RT mining  
 RT radioactive waste disposal  
 RT shaft guides  
 RT tunneling

- RT tunnels  
RT underground disposal

**SHAFT GUIDES**

INIS: 2000-04-12; ETDE: 1980-08-12

- UF guides (shaft)  
RT shaft excavations

**shafts**

2000-04-12

Not for mines or underground excavation.

(Prior to March 1997 this was a valid ETDE descriptor.)

- SEE mechanical shafts  
SEE mine shafts  
SEE shaft excavations

**shafts (mechanical)**

INIS: 1976-09-06; ETDE: 2002-06-13

- USE mechanical shafts

**shafts (mine)**

INIS: 1991-12-18; ETDE: 2002-06-13

- USE mine shafts

**SHALE GAS**

2000-04-12

- \*BT1 gases  
RT oil shales

**shale mining**

INIS: 2000-04-12; ETDE: 1983-02-09

- USE oil shale mining

**SHALE OIL**

- \*BT1 petroleum  
NT1 shale oil fractions  
RT fischer assay  
RT hydroretorting assay  
RT ichthammol  
RT kerogen  
RT oil shale industry  
RT oil shales  
RT pyrolytic oils  
RT shale tar oils  
RT synthetic petroleum

**SHALE OIL FRACTIONS**

INIS: 2000-04-12; ETDE: 1976-03-11

- UF green oil  
\*BT1 shale oil  
RT oil shales

**SHALE TAR**

2000-04-12

- \*BT1 tar  
RT bituminous materials  
RT shale tar acids  
RT shale tar bases  
RT shale tar oils

**SHALE TAR ACIDS**

INIS: 2000-04-12; ETDE: 1976-08-24

- \*BT1 organic acids  
RT shale tar

**SHALE TAR BASES**

INIS: 2000-04-12; ETDE: 1976-07-07

- BT1 bases  
BT1 organic compounds  
RT shale tar

**SHALE TAR OILS**

2000-04-12

- \*BT1 oils  
RT shale oil  
RT shale tar

**SHALE TAR WATER**

2000-04-12

- \*BT1 waste water

**SHALES**

- \*BT1 sedimentary rocks  
NT1 argillite  
NT1 oil shales  
NT2 black shales  
RT carbonate minerals  
RT clays  
RT feldspars  
RT iron oxides  
RT oxide minerals  
RT quartz  
RT silt  
RT siltstones  
RT spent shales

**shallow land burial**

INIS: 2000-04-12; ETDE: 1986-04-29

- USE ground disposal

**shandong miniature neutron source reactor**

2004-03-15

- USE mnsr-sd reactor

**shanghai inr cyclotron**

INIS: 1983-06-01; ETDE: 1983-07-07

- USE inr cyclotron

**shanghai miniature neutron source reactor**

2004-03-15

- USE mnsr-sh reactor

**SHAPE**

1996-04-30

- NT1 parabolas  
NT1 troposkien shape  
RT cones  
RT configuration  
RT cylinders  
RT dimensions  
RT mass distribution  
RT morphogenesis  
RT morphology  
RT plates  
RT prisms  
RT rings  
RT rods  
RT shape memory effect  
RT slabs  
RT spheres  
RT spheroids  
RT tubes

**SHAPE MEMORY EFFECT**

1986-08-19

A shape recovery effect in metal specimens. It is associated with the martensite parent transformation.

- UF marmen effect  
RT elasticity  
RT nitinol heat engines  
RT phase transformations  
RT shape

**shaped charges**

INIS: 1984-04-04; ETDE: 1979-08-07

(Prior to August 1979 CHEMICAL EXPLOSIVES and SHAPE were used. From then till March 1997 this was a valid ETDE descriptor.)

- USE chemical explosives

**sharja**

INIS: 1992-05-07; ETDE: 1976-08-05

- USE united arab emirates

**sharpite**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE carbonate minerals  
USE uranium minerals

**shattering**

1975-11-27

- USE fragmentation

**SHAWNEE STEAM PLANT**

INIS: 2000-04-12; ETDE: 1981-11-10

- \*BT1 fossil-fuel power plants  
RT kentucky  
RT tennessee valley authority

**SHCA REACTOR**

UF semi-homogeneous critical assembly

UF semihomogeneous critical assembly

- \*BT1 enriched uranium reactors  
\*BT1 graphite moderated reactors  
\*BT1 solid homogeneous reactors  
\*BT1 thermal reactors  
\*BT1 zero power reactors

**SHEAR**

- RT fluid flow  
RT magnetic fields  
RT reversed shear  
RT richardson number  
RT rotational transform  
RT stresses  
RT tensile properties

**SHEAR PROPERTIES**

- UF shear strength  
UF strength (shear)  
BT1 mechanical properties

**shear strength**

- USE shear properties

**shear waves (seismic)**

INIS: 1980-05-14; ETDE: 1976-11-17

- USE seismic s waves

**SHEARER LOADERS**

INIS: 2000-04-12; ETDE: 1980-05-23

- \*BT1 cutter loaders  
RT coal mining

**shearon harris-1 reactor**

- USE harris-1 reactor

**shearon harris-2 reactor**

- USE harris-2 reactor

**shearon harris-3 reactor**

- USE harris-3 reactor

**shearon harris-4 reactor**

- USE harris-4 reactor

**sheathing**

- USE canning

**sheaths (fuel)**

- USE fuel cans

**SHEEP**

- UF lambs  
\*BT1 domestic animals  
\*BT1 ruminants  
RT dictyocaulus  
RT meat

**SHEETS**

1996-04-18

Thinner than plates but thicker than foils.

- RT cast method  
RT dendritic web growth method  
RT foils



- RT inverted stepanov method  
 RT plates  
 RT ribbon-to-ribbon method  
 RT ribbon-to-sheet method

**SHEILA HELIAC**

INIS: 1987-06-29; ETDE: 1987-07-09

- \*BT1 heliac stellarators  
 RT h-1 heliac

**shell claus off-gas treating process**

2000-04-12

- USE scot process

**shell flue gas desulfurization process**

INIS: 2000-04-12; ETDE: 1977-12-22

- SEE shell-uop copper oxide process

**SHELL GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1976-01-23

Partial oxidation of hydrocarbons to produce carbon monoxide and hydrogen and methanation to sng.

- BT1 sng processes  
 RT hydrocarbons  
 RT partial oxidation processes  
 RT petroleum

**SHELL-KOPPERS GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1980-04-14

Entrained, pressurized system using coal, steam, and oxygen to produce intermediate btu gas.

- \*BT1 coal gasification

**SHELL MODELS**

1996-07-08

Nuclear shell models only; for electron shell models use ELECTRONIC STRUCTURE.

- UF continuum shell model  
 UF models (shell)  
 SF wilkinson theory  
 \*BT1 nuclear models  
 NT1 governor model  
 NT1 interacting boson model  
 NT1 multi-center shell model  
 RT aligned coupling scheme  
 RT broken-pair approximation  
 RT elliot model  
 RT talmi integrals  
 RT weak-coupling model

**SHELL PELLET HEAT EXCHANGER RETORTING**

INIS: 2000-04-12; ETDE: 1981-01-27

Fluidization bed process in which shale flows upward countercurrent to larger heat-carrier pellets.

- UF spher  
 RT oil shales  
 RT retorting

**SHELL-UOP COPPER OXIDE PROCESS**

INIS: 2000-04-12; ETDE: 1977-04-12

Process to remove sulfur dioxide and nitrogen oxides simultaneously from flue gas using dry copper oxide on alumina sorbent.

- SF shell flue gas desulfurization process  
 \*BT1 desulfurization  
 RT denitrification  
 RT waste processing

**SHELLS**

Structural forms; for electron shells in atoms use ELECTRONIC STRUCTURE.

- RT coverings  
 RT domed structures  
 RT liners  
 RT mechanical structures

**shells (containment)**

- USE containment shells

**SHELTERS**

- NT1 animal shelters  
 NT1 fallout shelters  
 RT buildings  
 RT civil defense  
 RT local fallout  
 RT nuclear explosions  
 RT nuclear weapons  
 RT radiation protection  
 RT shielding  
 RT subsurface structures

**shenzen miniature neutron source****reactor**

2004-03-15

- USE mnsr-sz reactor

**sherardizing**

- USE diffusion coating

**SHERMAN TABLES**

- RT anisotropy  
 RT spin

**sherwood project**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

- SEE thermonuclear reactions

**shf radiation**

- USE ghz range 01-100  
 USE radiowave radiation

**SHIELD SUPPORTS**

INIS: 2000-04-12; ETDE: 1985-04-09

- \*BT1 powered supports  
 RT mining

**shield test reactor**

- USE stir reactor

**SHIELDED METAL-ARC WELDING**

- \*BT1 arc welding

**shielded organs**

- USE partial body irradiation

**SHIELDING**

- NT1 biological shielding  
 NT1 magnetic shielding  
 RT absorption  
 RT alara  
 RT buildup  
 RT collimators  
 RT containers  
 RT distance  
 RT external irradiation  
 RT gloveboxes  
 RT gloves  
 RT half-thickness  
 RT heterogeneous effects  
 RT hot cells  
 RT manipulators  
 RT point kernels  
 RT radiation protection  
 RT scattering  
 RT self-shielding  
 RT shelters  
 RT shielding materials  
 RT shields  
 RT shutters  
 RT stray radiation  
 RT thermal insulation  
 RT thickness

**SHIELDING MATERIALS**

- UF materials (shielding)  
 BT1 materials

- RT building materials  
 RT concretes  
 RT hydrophylic polymers  
 RT lead  
 RT paraffin  
 RT radiation protection  
 RT reactor components  
 RT reactor materials  
 RT shielding  
 RT shields

**SHIELDS**

- NT1 biological shields  
 NT1 thermal shields  
 RT radiation protection  
 RT reactor components  
 RT shielding  
 RT shielding materials

**SHIFT PROCESSES**

INIS: 2000-05-02; ETDE: 1975-10-28

Processes using the addition of steam to gasification products to increase the hydrogen/carbon monoxide ratio.

- RT coal gasification  
 RT methanation

**shift work**

INIS: 2000-04-12; ETDE: 1987-04-08

- USE alternative work schedules

**SHIGELLA**

- \*BT1 bacteria

**SHIKA-1 REACTOR**

INIS: 1989-09-14; ETDE: 1989-10-16

Hokuriku Electric Power Co., Shika, Ishikawa, Japan.

UF noto-1 reactor

- \*BT1 bwr type reactors

**SHIKIMIC ACID**

- \*BT1 hydroxy acids

**SHIM RODS**

- UF coarse control rods  
 \*BT1 control elements  
 RT neutron absorbers

**SHIMANE-1 REACTOR**

Chugoku Electric Power Co., Kashima, Shimane, Japan.

UF chugoku-1 reactor

UF chugoku electric power company reactor

UF kashima-1 reactor

- \*BT1 bwr type reactors

**SHIMANE-2 REACTOR**

INIS: 1985-11-16; ETDE: 1985-08-08

Chugoku Electric Power Co., Kashima, Shimane, Japan.

UF chugoku-2 reactor

UF kashima-2 reactor

- \*BT1 bwr type reactors

**SHIP PROPULSION REACTORS**

- UF naval reactors  
 UF s8g prototype reactor  
 SF enrico fermi reactor  
 \*BT1 propulsion reactors  
 NT1 efdr-50 reactor  
 NT1 lenin reactor  
 NT1 leonid brezhnev reactor  
 NT1 mutsu reactor  
 NT1 otto hahn reactor  
 NT1 savannah reactor  
 NT1 sibir reactor  
 RT nuclear ships

**ship reactor mutsu**

2000-04-12

USE mutsu reactor

**shipment**

USE transport

**SHIPPER-RECEIVER DIFFERENCES**

INIS: 1976-09-06; ETDE: 1976-11-01

RT material balance

RT material unaccounted for

**shippingport pressurized water reactor**

1993-11-09

USE shippingport reactor

**SHIPPINGPORT REACTOR**

US AEC/US DOE, Shippingport, Pennsylvania, USA. Shut down as PWR in 1974. Resumed operation in 1977 as LWBR. Retired in 1982.

UF shippingport pressurized water reactor

\*BT1 pwr type reactors

**SHIPS**

UF drill ships

UF puget sound naval shipyard

NT1 nuclear ships

NT2 ns enrico fermi

NT2 ns lenin

NT2 ns leonid brezhnev

NT2 ns sibir

NT2 nuclear merchant ships

NT3 ns mutsu

NT3 ns otto hahn

NT3 ns savannah

NT1 submarines

NT1 tanker ships

RT barges

RT maritime transport

RT motorboats

RT navigation

RT navigational instruments

RT positioning

RT sails

RT thrusters

**shirley basin uranium mill**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE feed materials plants

**SHIVA FACILITY**

INIS: 1978-04-21; ETDE: 1978-02-14

Large Nd laser facility at LLL to be used for laser fusion.

RT laser fusion reactors

RT lawrence livermore laboratory

RT lawrence livermore national laboratory

RT neodymium lasers

RT nova facility

RT novette facility

**shoal event**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE vela project

**shock (biological)**

USE biological shock

**shock (electric)**

INIS: 2000-04-12; ETDE: 1979-07-24

USE electric shock

**shock (impact)**

USE impact shock

**shock (medical)**

USE biological shock

**shock (thermal)**

USE thermal shock

**SHOCK ABSORBERS**

RT damping

RT energy losses

RT impact shock

RT restraints

RT seismic effects

RT seismic isolation

RT shock waves

**SHOCK HEATING**

\*BT1 plasma heating

**SHOCK TUBES**

RT shock waves

**shock wave hardening**

USE strain hardening

**shock-wave hardening**

INIS: 1984-04-04; ETDE: 2002-06-13

USE strain hardening

**SHOCK WAVES**

UF riemann waves

UF waves (shock)

NT1 detonation waves

RT blast effects

RT combustion waves

RT earthquakes

RT explosions

RT ground motion

RT hydromagnetic waves

RT impact shock

RT implosions

RT lax theorem

RT mach number

RT nuclear explosions

RT rankine-hugoniot equations

RT seismic effects

RT seismology

RT shock absorbers

RT shock tubes

RT soil-structure interactions

RT solitons

RT supersonic flow

RT transonic flow

RT water hammer

**shoes**

USE clothing

**SHOPPING CENTERS**

INIS: 1993-03-23; ETDE: 1979-05-02

\*BT1 commercial buildings

**SHOREHAM REACTOR**

Long Island Lighting Co., Shoreham, New

York, USA. Shut down in 1989;

decommissioned in 1995.

\*BT1 bwr type reactors

**SHORES**

For both lake- and sea-land boundaries.

UF coast

UF seacoast

BT1 coastal regions

RT coastal waters

RT lakes

RT offshore nuclear power plants

RT offshore sites

RT river deltas

RT seas

**short circuits**

INIS: 1983-10-14; ETDE: 1976-12-16

USE electrical faults

**short-lens spectrometers**

USE magnetic lens spectrometers

**short-range interactions**

USE interaction range

**SHORT ROTATION CULTIVATION**

INIS: 1992-02-04; ETDE: 1979-10-23

Agro-forestry system in which seedlings are planted like a row crop, and rapid juvenile growth is promoted by cultural practices.

BT1 cultivation techniques

RT agriculture

RT biomass plantations

RT forestry

RT trees

**SHORT WAVE RADIATION**

UF hf radiation

UF high frequency radiation

UF high-frequency radiation

\*BT1 radiowave radiation

**SHORTAGES**

INIS: 1993-06-07; ETDE: 1980-08-25

UF shortfalls

NT1 energy shortages

RT allocations

RT availability

RT domestic supplies

RT fuel supplies

RT inventories

RT supply disruption

**shortfalls**

INIS: 2000-04-12; ETDE: 1980-08-25

USE shortages

**SHORTITE**

2000-04-12

A double carbonate of sodium and calcium.

\*BT1 carbonate minerals

RT calcium carbonates

RT sodium carbonates

**shorts (electrical)**

INIS: 1983-10-14; ETDE: 2002-06-13

USE electrical faults

**SHORTWALL MINING**

INIS: 2000-04-12; ETDE: 1977-05-07

\*BT1 underground mining

RT coal mining

**SHOT PEENING**

UF peening

\*BT1 cold working

BT1 surface treatments

RT descaling

RT surface cleaning

RT surface hardening

**shotfiring**

INIS: 2000-04-12; ETDE: 1978-04-27

USE explosive fracturing

**SHOWER COUNTERS**

Detects high energy gamma radiation or high energy particles on basis of cascade showers in layered absorbers.

UF calorimeter detectors

UF calorimeters (particle)

UF ionization calorimeters

UF total-absorption spectrometers

\*BT1 radiation detectors

RT cosmic ray detection

RT fermilab collider detector

RT gev range

RT stanford linear collider detector

**SHOWERS**

For rain showers use *RAIN*; for safety showers use *SAFETY SHOWERS*.

- NT1 cascade showers
- NT1 cosmic showers
- NT2 extensive air showers

**showers (safety)**

INIS: 2000-04-12; ETDE: 1980-11-24  
USE safety showers

**SHREDDERS**

INIS: 1987-05-26; ETDE: 1983-04-28  
\*BT1 materials handling equipment  
RT cutting tools

**SHREWS**

- \*BT1 mammals

**SHRIMP**

- \*BT1 decapods
- RT prawns
- RT seafood

**SHRINKAGE**

- RT augmentation
- RT contraction
- RT dilatometry

**SHROUDS**

Cover enveloping the active length of a fuel assembly, to stabilize the coolant flow through the assembly.

- \*BT1 reactor cooling systems
- RT fuel assemblies
- RT fuel channels
- RT jackets

**SHRUBS**

- UF *chrysothamnus nauseosus*
- UF rabbit brush
- BT1 plants
- NT1 jojoba
- RT conifers
- RT preferred species

**SHUBNIKOV-DE HAAS EFFECT**

- RT hall effect
- RT magnetic fields
- RT magnetoresistance

**SHUNT REACTORS**

INIS: 2000-07-11; ETDE: 1979-08-07  
Devices connected in shunt to an electric power system for drawing inductive current, e.g., to compensate for capacitive currents from transmission lines, cables, or shunt capacitors.

- \*BT1 electrical equipment
- RT power transmission
- RT power transmission lines

**shunts**

INIS: 1975-10-23; ETDE: 2002-06-16  
USE bypasses

**SHUTDOWN**

INIS: 1983-03-14; ETDE: 1991-06-26  
(Prior to June 1991 SHUTDOWNS was a valid ETDE descriptor.)

- NT1 reactor shutdown
- NT2 scram
- RT cancellation
- RT decommissioning
- RT outages

**shutdown (reactor)**

2000-04-12  
USE reactor shutdown

**shutin pressure**

INIS: 1986-07-09; ETDE: 1978-09-11  
USE reservoir pressure

**SHUTTERS**

INIS: 1982-10-29; ETDE: 1979-02-27  
RT buildings  
RT collimators  
RT coverings  
RT curtains  
RT neutron choppers  
RT openings  
RT optical systems  
RT shading  
RT shielding  
RT sun shades  
RT thermal insulation  
RT windows

**shuttle cars**

INIS: 2000-04-12; ETDE: 1979-09-27  
USE trackless vehicles

**shuttles**

USE rabbit tubes

**SI MICROSTRIP DETECTORS**

INIS: 2004-06-11; ETDE: 2004-07-08  
\*BT1 si semiconductor detectors

**SI SEMICONDUCTOR DETECTORS**

UF *silicon semiconductor detectors*  
\*BT1 semiconductor detectors  
NT1 li-drifted si detectors  
NT1 si microstrip detectors

**SI UNITS**

INIS: 1997-06-05; ETDE: 1976-07-07  
UF *gray*  
UF *sievert*  
UF *sievert unit*  
BT1 units  
RT metric system

**si(li) detectors**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE li-drifted si detectors

**SIALIC ACID**

RT amines  
RT gangliosides  
RT organic acids

**sialon**

INIS: 1984-04-04; ETDE: 1982-02-08  
USE aluminium oxides  
USE silicon nitrides

**SIBERIA**

INIS: 1993-03-18; ETDE: 1978-06-14  
BT1 asia  
\*BT1 russian federation  
RT chukchi sea

**sibir (nuclear ship)**

INIS: 1985-09-09; ETDE: 2002-06-13  
USE ns sibir

**SIBIR REACTOR**

INIS: 1985-09-09; ETDE: 1985-10-10  
UF *icebreaker sibir reactor*  
UF *nuclear ship sibir reactor*  
\*BT1 ship propulsion reactors  
RT ns sibir

**sichromal alloys**

2000-04-12  
(Prior to February 1995, this was a valid ETDE descriptor.)  
USE aluminium alloys  
USE chromium alloys  
USE iron base alloys  
USE silicon alloys

**SICILY**

INIS: 1992-06-04; ETDE: 1980-08-12  
\*BT1 italy

**sick leave**

INIS: 2000-04-12; ETDE: 1983-05-21  
(Prior to January 1995, this was a valid ETDE descriptor.)  
SEE personnel management

**SICKLE CELLANEMIA**

INIS: 1982-12-07; ETDE: 1981-01-30  
\*BT1 anemias  
RT erythrocytes  
RT hereditary diseases

**SICROMO 9M**

2000-04-12  
\*BT1 chromium alloys  
\*BT1 iron base alloys  
\*BT1 molybdenum alloys

**sid**

USE sudden ionospheric disturbance

**SIDE EFFECTS**

RT combined therapy  
RT therapy

**SIDERITE**

1993-01-27  
*A spathic iron ore; an iron carbonate.*  
\*BT1 carbonate minerals  
\*BT1 iron ores  
RT iron carbonates

**siegbahn spectrometers**

USE flat magnetic spectrometers

**SIEMENS COMPUTERS**

INIS: 1977-10-17; ETDE: 1977-11-10  
BT1 computers

**siemens unterrichtsreaktor**

USE sur-100 series reactor

**SIERRA LEONE**

BT1 africa  
BT1 developing countries

**SIERRA NEVADA COLORADO**

BT1 mountains  
RT california  
RT cascade mountains

**sievert**

INIS: 2000-04-12; ETDE: 1980-08-12  
For studies concerning units, concepts, or definitions. See also *DOSE EQUIVALENTS*. (From 1982 till April 1997 SIEVERT UNIT was used for this concept.)  
USE radiation dose units  
USE si units

**sievert unit**

1997-06-05  
See also *DOSE EQUIVALENTS*. (From May 1981 until June 1997 this was a valid descriptor.)  
USE radiation dose units  
USE si units

**sigma-1193 resonances**

INIS: 1987-12-21; ETDE: 2002-06-13  
SEE sigma minus particles  
SEE sigma neutral particles  
SEE sigma plus particles

**SIGMA-1385 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-26  
(Prior to December 1987 this concept was indexed by SIGMA-1385 RESONANCES.)  
UF *sigma-1385 resonances*

\*BT1 sigma baryons

**sigma-1385 resonances**  
1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-1385 baryons

**sigma-1640 resonances**  
2000-04-12  
(Prior to August 1988 this was a valid ETDE descriptor.)  
SEE sigma baryons

**SIGMA-1660 BARYONS**  
INIS: 1987-12-21; ETDE: 1988-03-03  
(Prior to December 1987 this concept was indexed by SIGMA-1660 RESONANCES.)  
UF sigma-1660 resonances  
\*BT1 sigma baryons

**sigma-1660 resonances**  
INIS: 1987-12-21; ETDE: 1977-04-12  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-1660 baryons

**SIGMA-1670 BARYONS**  
INIS: 1987-12-21; ETDE: 1988-03-03  
(Prior to December 1987 this concept was indexed by SIGMA-1670 RESONANCES.)  
UF sigma-1670 resonances  
\*BT1 sigma baryons

**sigma-1670 resonances**  
1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-1670 baryons

**SIGMA-1750 BARYONS**  
INIS: 1987-12-21; ETDE: 1988-03-03  
(Prior to December 1987 this concept was indexed by SIGMA-1750 RESONANCES.)  
UF sigma-1750 resonances  
\*BT1 sigma baryons

**sigma-1750 resonances**  
1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-1750 baryons

**sigma-1765 resonances**  
1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-1775 baryons

**SIGMA-1770 BARYONS**  
INIS: 1987-12-21; ETDE: 1988-03-03  
\*BT1 sigma baryons

**SIGMA-1775 BARYONS**  
INIS: 1987-12-21; ETDE: 1988-03-03  
(Prior to December 1987 this concept was indexed by SIGMA-1765 RESONANCES.)  
UF sigma-1765 resonances  
\*BT1 sigma baryons

**sigma-1910 resonances**  
1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-1915 baryons

**SIGMA-1915 BARYONS**  
INIS: 1987-12-21; ETDE: 1988-03-03  
(Prior to December 1987 this concept was indexed by SIGMA-1910 RESONANCES.)  
UF sigma-1910 resonances  
\*BT1 sigma baryons

**SIGMA-1940 BARYONS**  
INIS: 1987-12-21; ETDE: 1988-03-03  
(Prior to December 1987 this concept was indexed by SIGMA-1940 RESONANCES.)  
UF sigma-1940 resonances  
\*BT1 sigma baryons

**sigma-1940 resonances**  
1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-1940 baryons

**SIGMA-2030 BARYONS**  
INIS: 1987-12-21; ETDE: 1988-03-07  
(Prior to December 1987 this concept was indexed by SIGMA-2030 RESONANCES.)  
UF sigma-2030 resonances  
\*BT1 sigma baryons

**sigma-2030 resonances**  
1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-2030 baryons

**sigma-2430 resonances**  
INIS: 1987-12-21; ETDE: 1979-09-26  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma c-2455 baryons

**SIGMA-2455 BARYONS**  
INIS: 1987-12-21; ETDE: 1988-03-07  
(Prior to December 1987 this concept was indexed by SIGMA-2455 RESONANCES.)  
UF sigma-2455 resonances  
\*BT1 sigma baryons

**sigma-2455 resonances**  
1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-2455 baryons

**sigma-410 resonances**  
2000-04-12  
(Prior to August 1988 this was a valid ETDE descriptor.)  
USE sigma model

**SIGMA BARYONS**  
INIS: 1995-07-17; ETDE: 1988-02-26  
SF sigma-1640 resonances  
\*BT1 hyperons  
NT1 sigma-1385 baryons  
NT1 sigma-1660 baryons  
NT1 sigma-1670 baryons  
NT1 sigma-1750 baryons  
NT1 sigma-1770 baryons  
NT1 sigma-1775 baryons  
NT1 sigma-1915 baryons  
NT1 sigma-1940 baryons  
NT1 sigma-2030 baryons  
NT1 sigma-2455 baryons  
NT1 sigma particles  
NT2 antisigma particles  
NT2 sigma minus particles  
NT2 sigma neutral particles  
NT2 sigma plus particles

**sigma c-2450 baryons**  
INIS: 1995-08-07; ETDE: 1988-02-19  
(From December 1987 until July 1995 this was a valid term.)  
USE sigma c-2455 baryons

**SIGMA C-2455 BARYONS**  
1995-08-07  
(Until December 1987 this concept was indexed by SIGMA-2430 RESONANCES;

from then until July 1995 it was indexed by SIGMA C-2450 BARYONS.)  
UF sigma-2430 resonances  
UF sigma c-2450 baryons  
\*BT1 charmed baryons

**sigma minus**  
1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma minus particles

**sigma-minus atoms**  
USE hadronic atoms

**SIGMA MINUS PARTICLES**  
INIS: 1987-12-21; ETDE: 1988-02-26  
(Prior to December 1987 this concept was indexed by SIGMA MINUS.)  
UF sigma minus  
SF sigma-1193 resonances  
\*BT1 sigma particles

**SIGMA MODEL**  
1995-07-17  
UF sigma-410 resonances  
\*BT1 boson-exchange models  
RT pseudoscalar mesons  
RT scalar mesons

**sigma neutral**  
1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma neutral particles

**SIGMA NEUTRAL PARTICLES**  
INIS: 1987-12-21; ETDE: 1988-02-26  
(Prior to December 1987 this concept was indexed by SIGMA NEUTRAL.)  
UF sigma neutral  
SF sigma-1193 resonances  
\*BT1 sigma particles

**SIGMA PARTICLE BEAMS**  
\*BT1 hyperon beams

**SIGMA PARTICLES**  
\*BT1 sigma baryons  
NT1 antisigma particles  
NT1 sigma minus particles  
NT1 sigma neutral particles  
NT1 sigma plus particles

**SIGMA PILES**  
RT moderators  
RT neutron sources

**sigma plus**  
1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma plus particles

**SIGMA PLUS PARTICLES**  
INIS: 1987-12-21; ETDE: 1988-02-26  
(Prior to December 1987 this concept was indexed by SIGMA PLUS.)  
UF sigma plus  
SF sigma-1193 resonances  
\*BT1 sigma particles

**SIGMA TERMS**  
\*BT1 current commutators

**sigmalog**  
INIS: 2000-04-12; ETDE: 1979-04-11  
SEE mwd systems

**SIGNAL CONDITIONERS**  
INIS: 2000-04-12; ETDE: 1984-07-20  
\*BT1 pulse circuits  
NT1 digitizers

- NT2 cathode ray tube digitizers
- NT2 flying spot digitizers
- NT2 scanning measuring projectors
- NT2 spiral reader digitizers

- NT1 pulse shapers
- RT signal conditioning
- RT signals

**SIGNAL CONDITIONING**

INIS: 1986-04-03; ETDE: 1984-07-20

Processing of the form or mode of a signal to make it compatible with a given device.

- RT data transmission
- RT digitizers
- RT pulse shapers
- RT signal conditioners
- RT signals

**SIGNAL DISTORTION**

1976-03-25

- RT data transmission
- RT electromagnetic radiation
- RT radiowave radiation
- RT signals
- RT sound waves

**SIGNAL-TO-NOISE RATIO**

INIS: 1986-04-04; ETDE: 1980-10-28

(Prior to April 1986 NOISE was used for this concept.)

- BT1 dimensionless numbers
- RT accuracy
- RT noise
- RT resolution
- RT signals

**SIGNALS**

- RT communications
- RT data transmission
- RT pulses
- RT signal conditioners
- RT signal conditioning
- RT signal distortion
- RT signal-to-noise ratio

**SILANES**

- UF silicon hydrides
- \*BT1 hydrides
- \*BT1 organic silicon compounds
- BT1 silicon compounds

**SILASTIC**

- \*BT1 rubbers
- \*BT1 silicones

**SILENE REACTOR**

INIS: 1982-06-09; ETDE: 1982-07-08

- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 zero power reactors

**silex process**

2001-03-06

- USE laser isotope separation

**SILICA**

INIS: 1999-09-17; ETDE: 1993-08-31

The mineral form of silicon dioxide, SiO(sub 2).

- \*BT1 oxide minerals
- NT1 opals
- RT silicon oxides

**SILICA GEL**

- BT1 adsorbents
- RT adsorption
- RT ion exchange materials
- RT silicon oxides

**SILICATE MINERALS**

INIS: 1996-11-13; ETDE: 1982-05-12

(The UF terms below have been valid ETDE descriptors.)

- UF boltwoodite
- UF catapleite
- UF cerite
- UF cuprosklodowskite
- UF cyrtolite
- UF elpidite
- UF eudialyte
- UF huttonite
- UF pyroxenes
- UF steenstrupine
- UF thorumgummite
- UF uranotile
- UF yttrialite

- BT1 minerals
- NT1 alamosite
- NT1 allanite
- NT1 alvite
- NT1 amphibole
- NT2 hornblende
- NT1 beryl
- NT1 chlorite minerals
- NT1 clays

- NT2 attapulgite
- NT2 bentonite
- NT2 boom clay
- NT2 clinoptilolite
- NT2 fullers earth
- NT2 illite
- NT2 kaolin
- NT2 montmorillonite
- NT2 sepiolite
- NT2 smectite

- NT1 coffinite
- NT1 cristobalite
- NT1 diopside
- NT1 ekanite
- NT1 enstatite
- NT1 epidotes
- NT1 feldspars
- NT2 anorthite
- NT2 orthoclase
- NT1 freyelite
- NT1 garnets
- NT1 hedenbergite
- NT1 helvite
- NT1 hydrothorite
- NT1 ilvaite
- NT1 kainosite
- NT1 kaolinite
- NT1 lavenite
- NT1 lovozerite
- NT1 mackintoshite
- NT1 maitlandite
- NT1 mesodialyte
- NT1 mica

- NT2 biotite
- NT2 muscovite
- NT2 vermiculite
- NT1 olivine
- NT1 petalite
- NT1 pollucite
- NT1 pyrophyllite
- NT1 ranquillite
- NT1 serpentine
- NT1 sklodowskite
- NT1 soddyite
- NT1 talc
- NT1 thorite

- NT2 jiningite
- NT1 titanite
- NT1 tourmaline
- NT1 uranophane
- NT1 uranothorite
- NT1 zeolites

- NT2 clinoptilolite

- NT2 faujasite

- NT2 heulandite

- NT2 laumontite

- NT2 mordenite

- NT2 wairakite

- NT1 zircon
- RT aluminium silicates
- RT beryllium silicates
- RT boron silicates
- RT calcium silicates
- RT cerium silicates
- RT gabbros
- RT iron silicates
- RT kimberlites
- RT lava
- RT magnesium silicates
- RT manganese silicates
- RT niobium silicates
- RT peridotites
- RT potassium silicates
- RT quartz
- RT silicon oxides
- RT sodium silicates
- RT thorium silicates
- RT titanium silicates
- RT uranium silicates
- RT yttrium silicates
- RT zirconium silicates

**SILICATES**

1997-06-19

- UF acid silicates
- SF gadolinite
- BT1 oxygen compounds
- BT1 silicon compounds
- NT1 aluminium silicates
- NT1 americium silicates
- NT1 barium silicates
- NT1 beryllium silicates
- NT1 boron silicates
- NT1 cadmium silicates
- NT1 calcium silicates
- NT1 cerium silicates
- NT1 cesium silicates
- NT1 chromium silicates
- NT1 cobalt silicates
- NT1 copper silicates
- NT1 curium silicates
- NT1 dysprosium silicates
- NT1 europium silicates
- NT1 germanium silicates
- NT1 hafnium silicates
- NT1 holmium silicates
- NT1 indium silicates
- NT1 iron silicates
- NT1 lanthanum silicates
- NT1 lead silicates
- NT1 lithium silicates
- NT1 lutetium silicates
- NT1 magnesium silicates
- NT1 manganese silicates
- NT1 molybdenum silicates
- NT1 neodymium silicates
- NT1 nickel silicates
- NT1 niobium silicates
- NT1 plutonium silicates
- NT1 potassium silicates
- NT1 praseodymium silicates
- NT1 radium silicates
- NT1 rubidium silicates
- NT1 samarium silicates
- NT1 scandium silicates
- NT1 sodium silicates
- NT1 strontium silicates
- NT1 tantalum silicates
- NT1 thorium silicates
- NT1 thulium silicates
- NT1 titanium silicates
- NT1 uranium silicates

NT1 uranyl silicates  
 NT1 vanadium silicates  
 NT1 ytterbium silicates  
 NT1 yttrium silicates  
 NT1 zinc silicates  
 NT1 zirconium silicates  
 RT silicic acid  
 RT silicon oxides

**siliceous rock**

INIS: 2000-04-12; ETDE: 1984-02-23

USE sandstones

**SILICIC ACID**

UF hydrogen silicates  
 \*BT1 inorganic acids  
 BT1 oxygen compounds  
 BT1 silicon compounds  
 RT silicates

**silicic acid esters**

INIS: 2000-04-12; ETDE: 1986-03-04

USE organic silicon compounds

**SILICIDES**

1997-06-19

BT1 silicon compounds  
 NT1 aluminium silicides  
 NT1 americium silicides  
 NT1 boron silicides  
 NT1 calcium silicides  
 NT1 cerium silicides  
 NT1 cesium silicides  
 NT1 chromium silicides  
 NT1 cobalt silicides  
 NT1 copper silicides  
 NT1 dysprosium silicides  
 NT1 erbium silicides  
 NT1 europium silicides  
 NT1 gadolinium silicides  
 NT1 germanium silicides  
 NT1 gold silicides  
 NT1 hafnium silicides  
 NT1 holmium silicides  
 NT1 iridium silicides  
 NT1 iron silicides  
 NT1 lanthanum silicides  
 NT1 lithium silicides  
 NT1 lutetium silicides  
 NT1 magnesium silicides  
 NT1 manganese silicides  
 NT1 molybdenum silicides  
 NT1 neodymium silicides  
 NT1 nickel silicides  
 NT1 niobium silicides  
 NT1 palladium silicides  
 NT1 platinum silicides  
 NT1 potassium silicides  
 NT1 praseodymium silicides  
 NT1 rhenium silicides  
 NT1 rhodium silicides  
 NT1 rubidium silicides  
 NT1 ruthenium silicides  
 NT1 samarium silicides  
 NT1 scandium silicides  
 NT1 sodium silicides  
 NT1 tantalum silicides  
 NT1 terbium silicides  
 NT1 thorium silicides  
 NT1 thulium silicides  
 NT1 titanium silicides  
 NT1 tungsten silicides  
 NT1 uranium silicides  
 NT1 vanadium silicides  
 NT1 ytterbium silicides  
 NT1 yttrium silicides  
 NT1 zinc silicides  
 NT1 zirconium silicides  
 RT intermetallic compounds  
 RT silicon additions

RT silicon alloys

**SILICON**

\*BT1 semimetals

**SILICON 22**

INIS: 1987-11-02; ETDE: 1987-12-23

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 silicon isotopes

**SILICON 23**

INIS: 1986-08-19; ETDE: 1984-05-08

\*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 silicon isotopes

**SILICON 24**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 silicon isotopes

**SILICON 25**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 silicon isotopes

**SILICON 26**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 silicon isotopes

**SILICON 27**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 silicon isotopes

**SILICON 28**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 silicon isotopes  
 \*BT1 stable isotopes  
 RT silicon 28 beams  
 RT silicon 28 reactions

**SILICON 28 BEAMS**

\*BT1 ion beams  
 RT silicon 28

**SILICON 28 REACTIONS**

\*BT1 heavy ion reactions  
 RT silicon 28

**SILICON 28 TARGET**

ETDE: 1976-07-09

BT1 targets

**SILICON 29**

\*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 silicon isotopes  
 \*BT1 stable isotopes  
 RT silicon 29 beams  
 RT silicon 29 reactions

**SILICON 29 BEAMS**

INIS: 1991-03-22; ETDE: 1991-04-09

\*BT1 ion beams  
 RT silicon 29

**SILICON 29 REACTIONS**

INIS: 1978-04-21; ETDE: 1978-07-06

\*BT1 heavy ion reactions  
 RT silicon 29

**SILICON 29 TARGET**

ETDE: 1976-07-09

BT1 targets

**SILICON 30**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 silicon isotopes  
 \*BT1 stable isotopes

**SILICON 30 REACTIONS**

INIS: 1980-02-26; ETDE: 1980-03-29

\*BT1 heavy ion reactions

**SILICON 30 TARGET**

ETDE: 1976-07-09

BT1 targets

**SILICON 31**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 light nuclei  
 \*BT1 silicon isotopes

**SILICON 32**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 silicon isotopes  
 \*BT1 years living radioisotopes

**SILICON 32 DECAY RADIOISOTOPES**

INIS: 1990-01-30; ETDE: 1990-02-13

\*BT1 heavy ion decay radioisotopes

NT1 plutonium 238

RT silicon 32 emission decay

**SILICON 32 EMISSION DECAY**

INIS: 1990-01-30; ETDE: 1990-02-13

\*BT1 heavy ion emission decay

RT silicon 32 decay radioisotopes

**SILICON 32 TARGET**

INIS: 1981-07-06; ETDE: 1981-08-04

BT1 targets

**SILICON 33**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 silicon isotopes

**SILICON 34**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 silicon isotopes

**SILICON 34 EMISSION DECAY**

INIS: 1989-10-27; ETDE: 1989-11-21

\*BT1 heavy ion emission decay

**SILICON 34 TARGET**

INIS: 1992-09-23; ETDE: 1985-05-31

BT1 targets

**SILICON 35**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 silicon isotopes

**SILICON 36**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 silicon isotopes

**SILICON 37***INIS: 1979-09-18; ETDE: 1979-10-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 38***INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 39***INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 40***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 41***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 silicon isotopes

**SILICON 42***INIS: 1979-02-21; ETDE: 1979-03-28*

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 silicon isotopes

**SILICON 43**

2007-12-21

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 silicon isotopes

**SILICON 44**

2007-12-21

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 silicon isotopes

**SILICON ADDITIONS**

1996-11-13

*Alloys containing not more than 1% Si are listed here.*

- \*BT1 silicon alloys
- NT1 alloy-al95cu4
  - NT2 duralumin
- NT1 alloy-fe40ni35cr22
- NT1 alloy-hs-31
- NT1 alloy-n28t3
- NT1 alloy-ni78cr21
- NT1 alloy-ni80cr20
- NT1 alloy-ni94mn3al2
  - NT2 alumel
- NT1 alloy-s-816
- NT1 alloy-v-36
- NT1 aludur
- NT1 ascology
- NT1 bondur
- NT1 discaloy
- NT1 duranickel
- NT1 miduale
- NT1 ni-hard
- NT1 stainless steel-zcnd17-13
- NT1 steel-cr16ni9mo2
- RT silicides

**SILICON ALLOYS**

1996-11-13

*Alloys containing more than 1% Si.*

- UF *sichromal alloys*
- BT1 alloys
- NT1 alloy-mo-re-1
- NT1 alloy-ni50mo32cr15si3
- NT1 alloy-ra-333
- NT1 cast iron
- NT1 colmonoy
- NT1 duriron
- NT1 silicon additions
  - NT2 alloy-al95cu4
  - NT3 duralumin
- NT2 alloy-fe40ni35cr22
- NT2 alloy-hs-31
- NT2 alloy-n28t3
- NT2 alloy-ni78cr21
- NT2 alloy-ni80cr20
- NT2 alloy-ni94mn3al2
  - NT3 alumul
- NT2 alloy-s-816
- NT2 alloy-v-36
- NT2 aludur
- NT2 ascology
- NT2 bondur
- NT2 discaloy
- NT2 duranickel
- NT2 miduale
- NT2 ni-hard
- NT2 stainless steel-zcnd17-13
- NT2 steel-cr16ni9mo2
- NT1 supertherm
- NT1 triballoy 800
- RT silicides

**SILICON ARSENIDE SOLAR CELLS***INIS: 2000-04-12; ETDE: 1981-07-18*

- \*BT1 solar cells

**SILICON ARSENIDES***INIS: 1979-09-18; ETDE: 1977-06-02*

- \*BT1 arsenides
- BT1 silicon compounds

**SILICON BORIDES**

- \*BT1 borides
- BT1 silicon compounds

**SILICON BROMIDES**

- \*BT1 bromides
- \*BT1 silicon halides

**SILICON CARBIDES**

- \*BT1 carbides
- BT1 silicon compounds

**SILICON CHLORIDES**

- \*BT1 chlorides
- \*BT1 silicon halides

**SILICON COMPLEXES**

- BT1 complexes

**SILICON COMPOUNDS***See also SILANES, SILOXANES and SILICONES.*

- NT1 silanes
- NT1 silicates
  - NT2 aluminium silicates
  - NT2 americium silicates
  - NT2 barium silicates
  - NT2 beryllium silicates
  - NT2 boron silicates
  - NT2 cadmium silicates
  - NT2 calcium silicates
  - NT2 cerium silicates
  - NT2 cesium silicates
  - NT2 chromium silicates
  - NT2 cobalt silicates
  - NT2 copper silicates

- NT2 curium silicates
- NT2 dysprosium silicates
- NT2 europium silicates
- NT2 germanium silicates
- NT2 hafnium silicates
- NT2 holmium silicates
- NT2 indium silicates
- NT2 iron silicates
- NT2 lanthanum silicates
- NT2 lead silicates
- NT2 lithium silicates
- NT2 lutetium silicates
- NT2 magnesium silicates
- NT2 manganese silicates
- NT2 molybdenum silicates
- NT2 neodymium silicates
- NT2 nickel silicates
- NT2 niobium silicates
- NT2 plutonium silicates
- NT2 potassium silicates
- NT2 praseodymium silicates
- NT2 radium silicates
- NT2 rubidium silicates
- NT2 samarium silicates
- NT2 scandium silicates
- NT2 sodium silicates
- NT2 strontium silicates
- NT2 tantalum silicates
- NT2 thorium silicates
- NT2 thulium silicates
- NT2 titanium silicates
- NT2 uranium silicates
- NT2 uranyl silicates
- NT2 vanadium silicates
- NT2 ytterbium silicates
- NT2 yttrium silicates
- NT2 zinc silicates
- NT2 zirconium silicates
- NT1 silicic acid
- NT1 silicides
  - NT2 aluminium silicides
  - NT2 americium silicides
  - NT2 boron silicides
  - NT2 calcium silicides
  - NT2 cerium silicides
  - NT2 cesium silicides
  - NT2 chromium silicides
  - NT2 cobalt silicides
  - NT2 copper silicides
  - NT2 dysprosium silicides
  - NT2 erbium silicides
  - NT2 europium silicides
  - NT2 gadolinium silicides
  - NT2 germanium silicides
  - NT2 gold silicides
  - NT2 hafnium silicides
  - NT2 holmium silicides
  - NT2 iridium silicides
  - NT2 iron silicides
  - NT2 lanthanum silicides
  - NT2 lithium silicides
  - NT2 lutetium silicides
  - NT2 magnesium silicides
  - NT2 manganese silicides
  - NT2 molybdenum silicides
  - NT2 neodymium silicides
  - NT2 nickel silicides
  - NT2 niobium silicides
  - NT2 palladium silicides
  - NT2 platinum silicides
  - NT2 potassium silicides
  - NT2 praseodymium silicides
  - NT2 rhenium silicides
  - NT2 rhodium silicides
  - NT2 rubidium silicides
  - NT2 ruthenium silicides
  - NT2 samarium silicides
  - NT2 scandium silicides
  - NT2 sodium silicides

**NT2** tantalum silicides  
**NT2** terbium silicides  
**NT2** thorium silicides  
**NT2** thulium silicides  
**NT2** titanium silicides  
**NT2** tungsten silicides  
**NT2** uranium silicides  
**NT2** vanadium silicides  
**NT2** ytterbium silicides  
**NT2** yttrium silicides  
**NT2** zinc silicides  
**NT2** zirconium silicides  
**NT1** silicon arsenides  
**NT1** silicon borides  
**NT1** silicon carbides  
**NT1** silicon halides  
**NT2** silicon bromides  
**NT2** silicon chlorides  
**NT2** silicon fluorides  
**NT2** silicon iodides  
**NT1** silicon hydroxides  
**NT1** silicon nitrides  
**NT1** silicon oxides  
**NT1** silicon phosphates  
**NT1** silicon phosphides  
**NT1** silicon sulfides  
**RT** organic silicon compounds

**SILICON DIODES**

\*BT1 semiconductor diodes

**SILICON FLUORIDES**

\*BT1 fluorides  
 \*BT1 silicon halides

**SILICON HALIDES**

*INIS: 1991-09-16; ETDE: 1978-02-15*

\*BT1 halides  
 BT1 silicon compounds  
**NT1** silicon bromides  
**NT1** silicon chlorides  
**NT1** silicon fluorides  
**NT1** silicon iodides

**silicon hydrides**

USE silanes

**SILICON HYDROXIDES**

\*BT1 hydroxides  
 BT1 silicon compounds

**SILICON IODIDES**

\*BT1 iodides  
 \*BT1 silicon halides

**SILICON IONS**

\*BT1 ions

**SILICON ISOTOPES**

*1999-07-16*

BT1 isotopes  
**NT1** silicon 22  
**NT1** silicon 23  
**NT1** silicon 24  
**NT1** silicon 25  
**NT1** silicon 26  
**NT1** silicon 27  
**NT1** silicon 28  
**NT1** silicon 29  
**NT1** silicon 30  
**NT1** silicon 31  
**NT1** silicon 32  
**NT1** silicon 33  
**NT1** silicon 34  
**NT1** silicon 35  
**NT1** silicon 36  
**NT1** silicon 37  
**NT1** silicon 38  
**NT1** silicon 39  
**NT1** silicon 40  
**NT1** silicon 41  
**NT1** silicon 42

**NT1** silicon 43

**NT1** silicon 44

**SILICON NITRIDES**

*UF sialon*

\*BT1 nitrides

BT1 silicon compounds

**silicon on ceramic solar cells**

*INIS: 2000-04-12; ETDE: 1981-07-18*

USE soc solar cells

**SILICON OXIDES**

*1998-11-03*

*UF coesite*

\*BT1 oxides

BT1 silicon compounds

*RT cristobalite*

*RT glass*

*RT oxide minerals*

*RT quartz*

*RT rhyolites*

*RT sand*

*RT silica*

*RT silica gel*

*RT silicate minerals*

*RT silicates*

*RT siloxanes*

*RT stishovite*

**SILICON PHOSPHATES**

\*BT1 phosphates

BT1 silicon compounds

**SILICON PHOSPHIDES**

*INIS: 1978-04-21; ETDE: 1978-07-06*

\*BT1 phosphides

BT1 silicon compounds

**silicon semiconductor detectors**

*INIS: 2000-04-12; ETDE: 1978-12-28*

USE si semiconductor detectors

**SILICON SOLAR CELLS**

*1997-06-19*

\*BT1 solar cells

**NT1** soc solar cells

**SILICON SULFIDES**

BT1 silicon compounds

\*BT1 sulfides

**SILICONES**

*1996-06-26*

(Prior to June 1996 DC RESINS was a valid ETDE descriptor.)

*UF dc resins*

BT1 polymers

\*BT1 siloxanes

**NT1** silastic

**siliconizing**

USE diffusion coating

**silicosis**

USE pneumoconioses

**SILKWORM**

*UF bombyx*

\*BT1 moths

**SILOE REACTOR**

*CEA/CEN Grenoble, Grenoble, France.*

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 thermal reactors

**SILOETTE REACTOR**

*UF grenoble reactor melusine-2*

*UF melusine-2 reactor*

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 thermal reactors

\*BT1 zero power reactors

**SILOXANES**

\*BT1 organic silicon compounds

**NT1** silicones

**NT2** silastic

*RT* silicon oxides

**SILT**

*RT* sediments

*RT* shales

**SILTSTONES**

*INIS: 1992-05-21; ETDE: 1984-07-20*

\*BT1 sedimentary rocks

*RT* sandstones

*RT* shales

**SILURIAN PERIOD**

*INIS: 1992-04-14; ETDE: 1977-10-19*

\*BT1 paleozoic era

**SILVER**

\*BT1 transition elements

**SILVER 100**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 silver isotopes

**SILVER 101**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 silver isotopes

**SILVER 102**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 silver isotopes

**SILVER 103**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 silver isotopes

**SILVER 104**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 silver isotopes

**SILVER 105**

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 silver isotopes



**SILVER 106**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 silver isotopes

**SILVER 106 TARGET**

*INIS: 1986-01-21; ETDE: 1986-02-21*

- BT1 targets

**SILVER 107**

- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes
- \*BT1 stable isotopes

**SILVER 107 BEAMS**

- \*BT1 ion beams

**SILVER 107 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**SILVER 108**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 silver isotopes
- \*BT1 years living radioisotopes

**SILVER 108 TARGET**

*INIS: 1977-02-08; ETDE: 1976-09-21*

- BT1 targets

**SILVER 109**

- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes
- \*BT1 stable isotopes

**SILVER 109 REACTIONS**

*INIS: 1986-05-12; ETDE: 1988-12-05*

- \*BT1 heavy ion reactions

**SILVER 109 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**SILVER 110**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 110 TARGET**

*INIS: 1992-09-23; ETDE: 1984-02-10*

- BT1 targets

**SILVER 111**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

- \*BT1 silver isotopes

**SILVER 112**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 silver isotopes

**SILVER 113**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 114**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 115**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 116**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 117**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 118**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 119**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 120**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 121**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 122**

- \*BT1 beta-minus decay radioisotopes

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 123**

*INIS: 1976-07-30; ETDE: 1976-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 124**

*2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 silver isotopes

**SILVER 125**

*2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 126**

*2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 silver isotopes

**SILVER 127**

*2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 128**

*2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 silver isotopes

**SILVER 129**

*2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 130**

*2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 silver isotopes

**SILVER 93**

*2008-01-16*

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 94**

*2002-08-13*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

\*BT1 silver isotopes

### SILVER 95

*INIS: 1984-06-21; ETDE: 1983-10-11*

\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 silver isotopes

### SILVER 96

*1982-06-09*

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

### SILVER 97

*INIS: 1979-02-21; ETDE: 1979-03-28*

\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

### SILVER 98

*INIS: 1979-02-21; ETDE: 1979-03-28*

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

### SILVER 99

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

### SILVER ADDITIONS

*Alloys containing not more than 1% Ag are listed here.*

\*BT1 silver alloys

### SILVER ALLOYS

*1995-02-27*

*Alloys containing more than 1% Ag.*

*UF alloy-ge*

\*BT1 transition element alloys  
NT1 silver additions  
NT1 silver base alloys

### SILVER ARSENIDES

*INIS: 2000-04-12; ETDE: 1979-08-09*

\*BT1 arsenides  
\*BT1 silver compounds

### SILVER BASE ALLOYS

\*BT1 silver alloys

### SILVER BROMIDES

\*BT1 bromides  
\*BT1 silver compounds

### SILVER-CADMIUM BATTERIES

*2000-04-12*

\*BT1 metal-metal oxide batteries

### SILVER CARBONATES

*1996-07-08*

(From June 1996 to November 2007 SILVER COMPOUNDS + CARBONATES was used for this concept.)

\*BT1 carbonates  
\*BT1 silver compounds

### SILVER CHLORIDES

\*BT1 chlorides  
\*BT1 silver compounds

### SILVER COMPLEXES

\*BT1 transition element complexes

### SILVER COMPOUNDS

*1997-06-19*

BT1 transition element compounds  
NT1 silver arsenides  
NT1 silver bromides  
NT1 silver carbonates  
NT1 silver chlorides  
NT1 silver fluorides  
NT1 silver hydrides  
NT1 silver hydroxides  
NT1 silver iodides  
NT1 silver nitrates  
NT1 silver nitrides  
NT1 silver oxides  
NT1 silver perchlorates  
NT1 silver phosphates  
NT1 silver selenides  
NT1 silver sulfates  
NT1 silver sulfides  
NT1 silver tellurides  
NT1 silver tungstates

### SILVER FLUORIDES

\*BT1 fluorides  
\*BT1 silver compounds

### SILVER HYDRIDES

*1979-09-18*

\*BT1 hydrides  
\*BT1 silver compounds

### SILVER-HYDROGEN BATTERIES

*INIS: 2000-04-12; ETDE: 1980-03-29*

\*BT1 metal-gas batteries

### SILVER HYDROXIDES

*2000-04-12*

\*BT1 hydroxides  
\*BT1 silver compounds

### SILVER IODIDES

\*BT1 iodides  
\*BT1 silver compounds

### SILVER IONS

\*BT1 ions

### SILVER ISOTOPES

*1999-07-16*

BT1 isotopes  
NT1 silver 100  
NT1 silver 101  
NT1 silver 102  
NT1 silver 103  
NT1 silver 104  
NT1 silver 105  
NT1 silver 106  
NT1 silver 107  
NT1 silver 108  
NT1 silver 109  
NT1 silver 110  
NT1 silver 111  
NT1 silver 112  
NT1 silver 113  
NT1 silver 114  
NT1 silver 115  
NT1 silver 116  
NT1 silver 117  
NT1 silver 118  
NT1 silver 119  
NT1 silver 120  
NT1 silver 121  
NT1 silver 122  
NT1 silver 123  
NT1 silver 124

NT1 silver 125

NT1 silver 126

NT1 silver 127

NT1 silver 128

NT1 silver 129

NT1 silver 130

NT1 silver 93

NT1 silver 94

NT1 silver 95

NT1 silver 96

NT1 silver 97

NT1 silver 98

NT1 silver 99

### SILVER NITRATES

\*BT1 nitrates  
\*BT1 silver compounds

### SILVER NITRIDES

\*BT1 nitrides  
\*BT1 silver compounds

### SILVER ORES

BT1 ores

### SILVER OXIDES

\*BT1 oxides  
\*BT1 silver compounds

### SILVER PERCHLORATES

\*BT1 perchlorates  
\*BT1 silver compounds

### SILVER PHOSPHATES

\*BT1 phosphates  
\*BT1 silver compounds

### SILVER SELENIDES

*INIS: 1978-07-03; ETDE: 1976-08-04*

\*BT1 selenides  
\*BT1 silver compounds

### SILVER SULFATES

\*BT1 silver compounds  
\*BT1 sulfates

### SILVER SULFIDES

\*BT1 silver compounds  
\*BT1 sulfides

### SILVER TELLURIDES

*INIS: 1978-09-28; ETDE: 1976-02-19*

\*BT1 silver compounds  
\*BT1 tellurides

### SILVER TUNGSTATES

*INIS: 1978-05-19; ETDE: 1978-07-05*

\*BT1 silver compounds  
\*BT1 tungstates

### SILVER-ZINC BATTERIES

*2000-04-12*

\*BT1 metal-metal oxide batteries

### SILVICULTURE

*INIS: 1992-03-27; ETDE: 1988-01-15*

BT1 forestry  
RT agriculture  
RT biomass plantations  
RT harvesting  
RT plant breeding  
RT trees

### SIMIAN VIRUS

*UF sv 40 virus*

\*BT1 viruses

### *simmondsia chinensis*

*INIS: 2000-04-12; ETDE: 1980-11-25*

USE jojoba

**simplex process**

INIS: 2000-04-12; ETDE: 1979-10-23

Slagging, moving-burden gasification process for coal or biomass being developed at Columbia University.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**sims**

INIS: 2000-04-12; ETDE: 1978-03-03

Secondary Ion Mass Spectroscopy.

USE ion microprobe analysis

USE mass spectroscopy

**SIMULATION**

1996-07-18

UF modeling

NT1 computerized simulation

NT1 plasma simulation

NT1 reactor accident simulation

RT box models

RT functional models

RT mathematical models

RT scaling laws

RT simulators

RT speech synthesizers

RT systems analysis

**SIMULATORS**

BT1 analog systems

BT1 functional models

NT1 reactor simulators

NT1 solar simulators

RT microcosms

RT mockup

RT scale models

RT simulation

**simulators (reactor)**

1999-09-20

USE reactor simulators

**SIN CYCLOTRON**

Includes the 590 MeV ring cyclotron and the two injector cyclotrons.

UF swiss institute nuclear research cyclotron

UF villigen cyclotron

\*BT1 isochronous cyclotrons

**sine generators**

USE function generators

**SINE-GORDON EQUATION**

INIS: 1977-06-14; ETDE: 1976-12-16

Field equation in two space-time dimensions defining a quantum field theory.

\*BT1 field equations

RT quantum field theory

**SINGAPORE**

BT1 asia

BT1 developing countries

BT1 islands

RT pacific ocean

**single administration**

USE single intake

**SINGLE CELL PROTEIN**

INIS: 2000-04-12; ETDE: 1976-01-23

Feed and food protein derived from single-cell microorganisms grown on various resources and wastes.

RT autotrophs

RT continuous culture

RT culture media

RT proteins

RT semibatch culture

**single crystals**

USE monocrystals

**SINGLE INTAKE**

UF accidental intake

UF single administration

BT1 intake

RT accidents

RT first aid

RT injuries

**single-level resonance formula**

USE breit-wigner formula

**single market**

INIS: 1997-01-28; ETDE: 1995-03-08

USE internal market

**SINGLE-PARTICLE MODEL**

UF independent-particle model

\*BT1 nuclear models

RT atomic models

RT quasiparticle-phonon model

RT schmidt model

**SINGLE-PARTICLE MODES**

UF modes (single-particle)

BT1 oscillation modes

**single photon ect**

INIS: 1993-12-08; ETDE: 2002-06-13

USE single photon emission computed tomography

**SINGLE PHOTON EMISSION COMPUTED TOMOGRAPHY**

INIS: 1995-07-20; ETDE: 1980-05-07

(Until January 1994 this was spelled SINGLE PHOTON ECT.)

UF single photon ect

UF spect

\*BT1 emission computed tomography

RT gamma cameras

RT photon transmission scanning

RT radioisotope scanning

**SINGULARITY**

UF residues (mathematical)

RT functions

RT landau curves

RT s matrix

RT scattering amplitudes

**SINKS**

INIS: 2000-04-12; ETDE: 1979-12-10

Points, lines, or areas at which mass or energy is removed from a system.

NT1 carbon sinks

NT1 heat sinks

RT absorption

RT diffusion

RT environmental transport

**sino united spherical tokamak**

2006-07-25

USE sunist spheromak

**SINP TOKAMAK**

1994-06-29

Saha Institute of Nuclear Physics, Calcutta, India.

\*BT1 tokamak devices

**SINTERED ALUMINIUM POWDERS**

ETDE: 2005-02-01

(Prior to January 2005 SAP was used for this concept.)

UF sap (sintered aluminium powders)

\*BT1 sintered materials

RT aluminium

**SINTERED MATERIALS**

BT1 materials

NT1 sintered aluminium powders

RT powder metallurgy

RT powders

RT sintering

**SINTERING**

UF liquid-phase sintering

BT1 fabrication

RT agglomeration

RT furnaces

RT porosity

RT powder metallurgy

RT sintered materials

**SINTERS**

INIS: 2000-04-12; ETDE: 1976-03-31

Chemical sedimentary rocks deposited as a hard incrustation on rocks or on the ground by precipitation from cold mineral water of springs, lakes, or streams; specifically siliceous sinter and calcareous sinter.

\*BT1 sedimentary rocks

**SINUSES**

INIS: 1981-05-11; ETDE: 1979-01-30

In anatomical nomenclature to designate a cavity or hollow space.

BT1 cavities

RT body

RT face

RT skull

**sioux falls pathfinder reactor**

USE pathfinder reactor

**siredon**

1996-11-13

(Prior to March 1997 AXOLOTL was used for this concept in ETDE.)

USE salamanders

**SIRIUS DEVICE**

\*BT1 stellarators

**sirius synchrotron**

USE tomsk synchrotron

**SIS SYNCHROTRON**

1991-02-11

UF darmstadt synchrotron

\*BT1 heavy ion accelerators

\*BT1 synchrotrons

**SISTER CHROMATID EXCHANGES**

INIS: 1977-10-17; ETDE: 1977-11-10

\*BT1 chromosomal aberrations

RT chromatids

RT genetic effects

RT genetic radiation effects

RT hereditary diseases

**SITE APPROVALS**

INIS: 1976-12-08; ETDE: 1990-11-26

RT licenses

RT nuclear facilities

RT property rights

RT reactor sites

RT site preparation

RT site selection

**SITE CHARACTERIZATION**

INIS: 1993-03-09; ETDE: 1986-04-29

Surveys of particular sites to establish their characteristics, e.g. hydrology, geological and topographical features, etc.

(Until March 1993, this concept was indexed by SITE SURVEYS.)

UF site surveys

RT baseline ecology

RT geochemistry

RT geographic information systems  
 RT geography  
 RT geologic surveys  
 RT geology  
 RT geomorphology  
 RT hydrology  
 RT meteorology  
 RT radiation monitoring  
 RT reactor sites  
 RT site selection  
 RT stratigraphy  
 RT topography

**SITE PREPARATION**

INIS: 1982-12-03; ETDE: 1976-07-07  
 RT reactor sites  
 RT site approvals  
 RT site selection

**site rehabilitation**

INIS: 1990-09-24; ETDE: 1990-10-09  
 USE remedial action

**SITE SELECTION**

See also descriptors for concepts involved in site selection, such as ENVIRONMENT, SEISMOLOGY and SOILS plus LIQUEFACTION.

UF reactor siting  
 RT accidents  
 RT archaeological sites  
 RT environment  
 RT external zones  
 RT land use  
 RT licensing  
 RT meteorology  
 RT offshore nuclear power plants  
 RT offshore sites  
 RT planning  
 RT reactor safety  
 RT reactor sites  
 RT site approvals  
 RT site characterization  
 RT site preparation  
 RT vernacular architecture

**site surveys**

INIS: 1993-03-09; ETDE: 1980-10-27  
 (Prior to March 1993 this was a valid ETDE descriptor.)  
 USE site characterization

**sites (fission reactor)**

INIS: 1982-11-29; ETDE: 2002-06-13  
 USE reactor sites

**sites (nuclear installations)**

INIS: 1976-12-08; ETDE: 2002-06-13  
 If appropriate use one of the specific types of facilities.  
 USE nuclear facilities

**sites (reactor)**

2000-04-12  
 USE reactor sites

**SITOSTEROL**

\*BT1 sterols

**SIZE**

(From December 1981 till May 1996 SIZING was a valid ETDE descriptor.)

UF sizing  
 NT1 critical size  
 NT1 grain size  
 NT1 particle size  
 RT dimensions  
 RT thickness  
 RT volume  
 RT width

**SIZEWELL-A REACTOR**

Sizewell, Suffolk, United Kingdom.  
 UF sizewell nuclear power station a  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 thermal reactors

**SIZEWELL-B REACTOR**

Sizewell, Suffolk, United Kingdom.  
 UF sizewell nuclear power station b  
 \*BT1 pwr type reactors

**sizewell nuclear power station a**

1998-11-04  
 USE sizewell-a reactor

**sizewell nuclear power station b**

1998-11-04  
 USE sizewell-b reactor

**sizing**

INIS: 2000-04-12; ETDE: 1981-12-14  
 (Prior to May 1996 this was a valid ETDE descriptor.)  
 USE size

**SKAGIT-1 REACTOR**

Puget Sound Power and Light Co., Sedro Woolley, Washington, USA. Canceled in 1983 before construction began.  
 \*BT1 bwr type reactors  
 RT ge standard reactor

**SKAGIT-2 REACTOR**

Puget Sound Power and Light Co., Sedro Woolley, Washington, USA. Canceled in 1983 before construction began.  
 \*BT1 bwr type reactors  
 RT ge standard reactor

**SKAGIT RIVER**

INIS: 2000-04-12; ETDE: 1980-10-27  
 \*BT1 rivers  
 RT hydroelectric power plants  
 RT washington

**SKATING RINKS**

INIS: 2000-04-12; ETDE: 1981-12-21  
 RT commercial buildings  
 RT public buildings

**SKELETAL DISEASES**

UF bone diseases  
 UF chondrosarcomas  
 BT1 diseases  
 NT1 osteomyelitis  
 NT1 osteoporosis  
 NT1 osteoradionecrosis  
 NT1 osteosarcomas  
 NT1 rickets  
 NT1 spondylitis  
 RT bone fractures  
 RT bone joints  
 RT bone tissues  
 RT rheumatic diseases  
 RT skeleton

**skeletal fossils**

INIS: 1980-09-12; ETDE: 1980-10-07  
 USE fossils

**SKELETON**

UF bones  
 \*BT1 organs  
 NT1 bone joints  
 NT1 exoskeleton  
 NT1 femur  
 NT1 skull  
 NT2 jaw  
 NT1 tibia  
 NT1 vertebrae  
 RT bone tissues

RT limbs  
 RT skeletal diseases

**skewness**

INIS: 1996-03-04; ETDE: 1996-02-26  
 USE asymmetry  
 USE distribution  
 USE statistics

**SKIMMERS**

INIS: 1992-07-21; ETDE: 1976-08-04  
 For oil spill cleanup and removal.  
 UF oil skimmers  
 \*BT1 pollution control equipment  
 RT offshore operations  
 RT oil spills

**SKIN**

UF sebaceous glands  
 UF sweat glands  
 \*BT1 organs  
 NT1 epidermis  
 NT1 hair  
 NT1 hair follicles  
 NT1 nails  
 RT animal tissues  
 RT epilation  
 RT erythema  
 RT feathers  
 RT fish scales  
 RT gloves  
 RT leather  
 RT lupus  
 RT melanin  
 RT ointments  
 RT psoriasis  
 RT skin absorption  
 RT skin diseases  
 RT sweat  
 RT wounds

**SKIN ABSORPTION**

UF absorption (skin)  
 \*BT1 absorption  
 BT1 uptake  
 RT gloves  
 RT protective clothing  
 RT skin

**skin cancer**

INIS: 1992-09-15; ETDE: 2002-06-13  
 SEE epitheliomas

**skin damage**

INIS: 2000-04-12; ETDE: 1983-01-21  
 USE formation damage

**SKIN DISEASES**

UF xeroderma pigmentosum  
 BT1 diseases  
 NT1 dermatitis  
 NT2 radiodermatitis  
 NT1 eczema  
 NT1 herpes simplex  
 NT1 psoriasis  
 NT1 telangiectasis  
 RT burns  
 RT erythema  
 RT lupus  
 RT sense organs diseases  
 RT skin

**SKIN EFFECT**

RT electric conductors  
 RT electric currents  
 RT magnetic flux  
 RT penetration depth

**skin effect (well)**

INIS: 2000-04-12; ETDE: 1983-01-21  
 USE formation damage

**SKLODOWSKITE**

2000-04-12

- \*BT1 silicate minerals
- \*BT1 uranium minerals
- RT magnesium silicates
- RT uranium silicates

**skoda (plzen) reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE sr-0a reactor

**SKULL**

- \*BT1 skeleton
- NT1 jaw
- RT brain
- RT head
- RT sinuses

**SKY**

INIS: 2000-04-12; ETDE: 1981-09-08

- NT1 night sky
- RT cloud cover
- RT clouds
- RT sun

**SKYLAB**

- BT1 satellites

**SKYLIGHTS**

INIS: 2000-04-12; ETDE: 1975-10-01

- RT buildings
- RT daylighting
- RT glazing materials
- RT lighting systems
- RT windows

**SKYRME POTENTIAL**

- UF skyrmons
- \*BT1 nucleon-nucleon potential
- RT elastic scattering
- RT inelastic scattering
- RT nuclear reactions

**skyrmons**

INIS: 2000-04-12; ETDE: 1986-01-24

- USE skyrme potential
- USE solitons

**skyscrapers**

2005-06-01

- USE high-rise buildings

**SL-1 REACTOR**

NRTS, Idaho Falls, Idaho, USA. Shut down; destroyed in an accident in 1961.

- UF stationary low power plant-1
- \*BT1 bwr type reactors
- \*BT1 process heat reactors

**SL GROUPS**

- \*BT1 lie groups

**SLABS**

Thicker than plates; primarily for use in shielding studies.

- RT plates
- RT prismatic configuration
- RT shape

**slac**

INIS: 1984-06-21; ETDE: 2002-06-13

- USE stanford linear accelerator center

**slac 2-mile linac**

INIS: 1984-06-21; ETDE: 2002-06-13

- USE stanford 20-gev linac

**slaggie model**

1996-07-08

(Until June 1996 this was a valid descriptor.)

- SEE transport theory

**SLAGGING PYROLYSIS PROCESS**

INIS: 1983-10-14; ETDE: 1976-11-01

- SF andco-torrax slagging pyrolysis system
- \*BT1 waste processing
- RT alpha-bearing wastes
- RT pyrolysis
- RT radioactive waste processing

**SLAGS**

- RT gangue
- RT seed-slag interactions

**SLAT TYPE COLLECTORS**

INIS: 2000-04-12; ETDE: 1978-10-25

- UF linear-segmented array collector
- \*BT1 concentrating collectors

**slater determinant**

- USE slater method

**slater integrals**

- USE slater method

**SLATER METHOD**

- UF slater determinant
- UF slater integrals
- UF slater orbitals
- BT1 calculation methods
- RT aligned coupling scheme
- RT electronic structure
- RT wave functions

**slater orbitals**

- USE slater method

**slatis-siegbahn spectrometers**

- USE magnetic lens spectrometers

**slc**

INIS: 1984-02-22; ETDE: 1984-03-06

- USE stanford linear collider

**slc detectors**

INIS: 1992-02-26; ETDE: 1992-01-16

(Prior to January 1992, this was a valid ETDE descriptor.)

- USE stanford linear collider detector

**sld**

INIS: 1991-12-17; ETDE: 1986-01-14

- SEE stanford linear collider detector

**SLEEP**

- RT central nervous system depressants
- RT hibernation
- RT hypnotics and sedatives
- RT physiology

**SLEEVES**

- RT jackets
- RT reactor components

**SLICE MINING**

INIS: 2000-04-12; ETDE: 1980-05-06

- \*BT1 underground mining
- RT coal mining

**SLIDING FRICTION**

- BT1 friction

**SLIGHTLY ENRICHED URANIUM**

0 - 5 per cent.

- \*BT1 enriched uranium

**slime fungi**

- USE myxomycetes

**SLIP**

- RT deformation
- RT dislocations
- RT slip ratio
- RT slip velocity

- RT twinning

**SLIP CASTING**

A procedure in ceramics not metallurgy.

- \*BT1 casting
- RT ceramics

**SLIP FLOW**

Rarefied gas flow in the region between Knudsen numbers 0.01 and 0.1 only.

- \*BT1 gas flow

**SLIP RATIO**

- BT1 dimensionless numbers
- RT slip

**SLIP VELOCITY**

1999-10-07

- BT1 velocity
- RT slip

**slm**

INIS: 2000-04-12; ETDE: 1983-04-07

- USE scanning light microscopy

**sloop event**

1997-01-28

(Prior to February 1996 this was a valid ETDE descriptor.)

- USE plowshare project

**SLOPE STABILITY**

INIS: 1986-04-03; ETDE: 1979-03-27

Resistance of an inclined surface to failure by sliding or collapsing.

- BT1 stability
- RT excavation
- RT ground motion
- RT landslides
- RT strata control
- RT surface mining

**slot ovens**

INIS: 2000-04-12; ETDE: 1979-09-27

- USE coke ovens

**slovak cyclotron center**

2002-12-17

- USE cyclotron center of the slovak republic

**slovak nuclear regulatory authority**

2002-12-17

- USE ujd

**SLOVAK ORGANIZATIONS**

1994-01-07

(Prior to January 1994, this concept in ETDE was indexed by CZECHOSLOVAK ORGANIZATIONS.)

- SF czechoslovak organizations
- BT1 national organizations
- NT1 cyclotron center of the slovak republic
- NT1 ujd
- NT1 vuje

**slovak republic**

INIS: 1994-02-28; ETDE: 1993-05-06

(From January 1993 to March 1994 this was a valid descriptor.)

- USE slovakia

**SLOVAKIA**

INIS: 1994-02-28; ETDE: 1994-03-07

(Prior to March 1994, this concept was indexed by CZECHOSLOVAKIA.)

- UF slovak republic
- SF czechoslovakia
- BT1 developing countries
- \*BT1 eastern europe
- RT bohunice radioactive waste processing center

RT danube river  
RT dudvah river  
RT hron river  
RT manivier canal  
RT vah river

**SLOVENIA**

1993-01-14

SF yugoslavia  
\*BT1 eastern europe  
RT alps

**SLOVENIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**SLOW NEUTRONS**

\*BT1 neutrons

**slowdown**

USE slowing-down

**SLOWING-DOWN**

1996-07-08

UF slowdown  
NT1 thermalization  
RT absorption  
RT energy losses  
RT fermi age theory  
RT neutron age  
RT neutron converters  
RT neutron slowing-down theory  
RT neutron transport theory  
RT slowing-down kernels  
RT slowing-down length  
RT van hove theory  
RT wick method  
RT wigner-wilkins model  
RT wilkins equation

**slowing-down area**

USE slowing-down length

**SLOWING-DOWN KERNELS**

UF kernels (slowing-down)  
RT neutron slowing-down theory  
RT slowing-down

**SLOWING-DOWN LENGTH**

1999-07-20

UF slowing-down area  
\*BT1 length  
RT migration length  
RT slowing-down

**slowing-down theory (neutron)**

USE neutron slowing-down theory

**SLOWPOKE-ALBERTA REACTOR**

INIS: 1979-12-20; ETDE: 1980-01-24

Univ. of Alberta, Faculty of Pharmacy,  
Edmonton, Alberta, Canada.

UF alberta university slowpoke reactor  
UF university of alberta slowpoke  
reactor

\*BT1 slowpoke type reactors

**SLOWPOKE-DALHOUSIE  
REACTOR**

INIS: 1979-12-20; ETDE: 1980-01-24

Dalhousie Univ., Halifax, Nova Scotia,  
Canada.

UF dalhousie university slowpoke  
reactor

\*BT1 slowpoke type reactors

**SLOWPOKE-MONTREAL REACTOR**

INIS: 1979-12-20; ETDE: 1980-01-24

Univ. of Montreal, Polytechnical School,  
Montreal, Quebec, Canada.

UF montreal university slowpoke reactor

UF university of montreal slowpoke  
reactor

\*BT1 slowpoke type reactors

**SLOWPOKE-OTTAWA REACTOR**

AECL, Ottawa, Ontario, Canada.

UF aecl radiochemical slowpoke reactor

UF ottawa slowpoke reactor

UF slowpoke reactor (ottawa)

\*BT1 slowpoke type reactors

**slowpoke reactor (ottawa)**

2000-04-12

USE slowpoke-ottawa reactor

**slowpoke reactor (toronto)**

2000-04-12

USE slowpoke-toronto reactor

**SLOWPOKE-TORONTO REACTOR**

Univ. of Toronto, Toronto, Ontario, Canada.

UF slowpoke reactor (toronto)

UF toronto university slowpoke reactor

UF university of toronto slowpoke  
reactor

\*BT1 slowpoke type reactors

**SLOWPOKE TYPE REACTORS**

INIS: 1979-12-20; ETDE: 1980-01-24

UF safe low power critical experiment

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

NT1 slowpoke-alberta reactor

NT1 slowpoke-dalhousie reactor

NT1 slowpoke-montreal reactor

NT1 slowpoke-ottawa reactor

NT1 slowpoke-toronto reactor

NT1 slowpoke-wnre reactor

**SLOWPOKE-WNRE REACTOR**

INIS: 1986-10-29; ETDE: 1986-11-20

Whiteshell Nuclear Research Establishment,  
Pinawa, Manitoba, Canada.

\*BT1 process heat reactors

\*BT1 slowpoke type reactors

RT district heating

**sls (swiss synchrotron light source)**

2000-06-02

USE swiss light source

**SLUDGES**

INIS: 1992-02-28; ETDE: 1976-05-17

NT1 sewage sludge

RT sediments

RT slurries

RT wastes

**sludges (sewage)**

INIS: 1977-11-21; ETDE: 2002-06-13

USE sewage sludge

**slugs (fuel)**

USE fuel rods

**slurex process**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE separation processes

**SLURRIES**

1996-07-08

UF pulps

\*BT1 mixtures

\*BT1 suspensions

NT1 fuel slurries

RT hydraulic transport

RT ore processing

RT sewage sludge

RT sludges

RT slurry pipelines

**slurries (fuel)**

USE fuel slurries

**SLURRY PIPELINES**

INIS: 1993-02-15; ETDE: 1975-08-19

BT1 pipelines

RT coal

RT hydraulic transport

RT slurries

**SLURRY REACTORS**

\*BT1 fuel dispersion reactors

RT fuel slurries

**SLUSH**

INIS: 2000-04-12; ETDE: 1976-01-23

RT hydrogen fuels

RT ice

RT snow

RT water

**SM-1 REACTOR**

UF stationary medium power plant-1

\*BT1 pwr type reactors

**SM-1A REACTOR**

USA Army Corps of Engineers, Fort Greeley,  
Alaska, USA.

UF stationary medium power plant-1a

\*BT1 process heat reactors

\*BT1 pwr type reactors

**SM-2 REACTOR**

UF melekess-sm-2 reactor

\*BT1 materials testing reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**SMALL ANGLE SCATTERING**

BT1 scattering

RT angular distribution

RT optical theorem

**SMALL BUSINESSES**

INIS: 1992-02-21; ETDE: 1977-09-19

Businesses and commercial establishments  
employing fewer than 500 people.

BT1 business

RT commercial sector

RT cooperatives

RT economy

RT gasoline service stations

RT industry

RT market

RT restaurants

RT retailers

RT trade

**SMALL INTESTINE**

UF duodenum

UF ileum

UF jejunum

\*BT1 intestines

RT ascaris

RT intestinal absorption

RT mesentery

RT secretin

**SMALL-SCALE HYDROELECTRIC  
POWER PLANTS**

INIS: 1992-04-06; ETDE: 1981-07-06

Small-scale hydroelectric power plants

generating from 100kW to 30MW.

\*BT1 hydroelectric power plants

RT low-head hydroelectric power plants

RT microgeneration

**small tight aspect ratio tokamak**

INIS: 1994-03-15; ETDE: 1994-02-25  
USE start tokamak

**smartor device**

INIS: 2000-04-12; ETDE: 1977-12-22  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE tokamak devices

**SMECTITE**

INIS: 1981-02-27; ETDE: 1976-11-29  
A green clay.  
\*BT1 clays  
RT aluminium silicates

**SMELTERS**

INIS: 1992-07-21; ETDE: 1980-10-27  
BT1 furnaces  
RT metal industry  
RT pyrometallurgy  
RT smelting

**SMELTING**

RT melting  
RT pyrometallurgy  
RT smelters

**smes**

INIS: 1995-01-11; ETDE: 1982-10-20  
Superconducting Magnetic Energy Storage.  
USE superconducting magnetic energy storage

**SMOG**

INIS: 2000-05-08; ETDE: 1975-11-28  
(Prior to May 2000, this concept was indexed by AIR POLLUTION.)  
RT air pollution  
RT atmospheric chemistry  
RT photochemical oxidants  
RT visibility

**smokatron**

USE electron-ring accelerators

**SMOKE DETECTORS**

INIS: 1981-02-27; ETDE: 1978-11-14  
UF icsd  
UF ionization chamber smoke detectors  
\*BT1 fire detectors  
RT aerosol monitoring  
RT aerosols  
RT alarm systems  
RT fires  
RT safety engineering  
RT smokes

**SMOKES**

\*BT1 aerosols  
BT1 residues  
NT1 tobacco smokes  
RT plumes  
RT smoke detectors  
RT soot  
RT stacks  
RT visibility

**smoky event**

INIS: 1994-10-14; ETDE: 1981-07-06  
A test made during OPERATION PLUMBBOB.  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE atmospheric explosions  
USE nuclear explosions

**SMOLENSK-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20  
\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors

\*BT1 thermal reactors

**SMOLENSK-2 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20  
\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**SMOLENSK-3 REACTOR**

INIS: 1994-12-22; ETDE: 1995-01-03  
\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**SMOOTH MANIFOLDS**

BT1 mathematical manifolds  
RT conformal mapping  
RT differential topology  
RT riemann space  
RT topological foliation

**smoothness**

USE roughness

**smr devices**

USE scanning measuring projectors

**smr reactor**

2000-04-12  
(Prior to January 1995, this was a valid ETDE descriptor.)  
SEE graphite moderated reactors

**sn method**

USE discrete ordinate method

**SNAILS**

\*BT1 molluscs  
RT disease vectors  
RT schistosomiasis  
RT seafood

**SNAKE RIVER PLAIN**

INIS: 1992-04-06; ETDE: 1981-08-04  
SF geologic provinces  
RT idaho  
RT nevada  
RT oregon  
RT wyoming  
RT yellowstone national park

**SNAKES**

\*BT1 reptiles

**snap 1 battery**

1996-07-08  
(Until June 1996 this was a valid descriptor.)  
USE snap batteries

**SNAP 10 REACTOR**

Atomics International Div., Rockwell International, Canoga Park, California, USA.  
\*BT1 enriched uranium reactors  
\*BT1 potassium cooled reactors  
\*BT1 process heat reactors  
\*BT1 snap reactors  
\*BT1 sodium cooled reactors  
NT1 s10fs-1 reactor  
NT1 s10fs-3 reactor  
NT1 s10fs-4 reactor

**snap-10a flight system test-1**

1993-11-09  
USE s10fs-1 reactor

**snap-10a flight system test-3**

1993-11-09  
USE s10fs-3 reactor

**snap-10a flight system test-4**

1993-11-09  
USE s10fs-4 reactor

**snap-10a transient test reactor**

1993-11-09  
USE snaptran reactors

**snap 11 battery**

1996-07-08  
(Until June 1996 this was a valid descriptor.)  
USE snap batteries

**snap 13 battery**

1996-07-08  
(Until June 1996 this was a valid descriptor.)  
USE snap batteries

**snap 15 battery**

2000-04-12  
(Prior to March 1996 this was a valid ETDE descriptor.)  
USE snap batteries

**SNAP 19 BATTERY**

\*BT1 snap batteries

**snap-2/10a tsf shielding reactor**

2000-04-12  
USE snap-tsf reactor

**snap-2 developmental system**

USE s2ds reactor

**snap-2 experimental reactor**

USE ser reactor

**SNAP 2 REACTOR**

Atomics International Div., Rockwell International, Canoga Park, California, USA.  
\*BT1 enriched uranium reactors  
\*BT1 snap reactors  
NT1 s2ds reactor

**snap 21 battery**

2000-04-12  
(Prior to August 1996 this was a valid ETDE descriptor.)  
USE snap batteries

**snap 23 battery**

2000-04-12  
(Prior to August 1996 this was a valid ETDE descriptor.)  
USE snap batteries

**SNAP 27 BATTERY**

\*BT1 snap batteries

**snap 29 battery**

2000-04-12  
(Prior to August 1996 this was a valid ETDE descriptor.)  
USE snap batteries

**snap 3 battery**

1996-07-08  
(Until June 1996 this was a valid descriptor.)  
USE snap batteries

**snap 4 reactor**

2000-04-12  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE snap reactors

**SNAP 50 REACTOR**

1993-02-18  
Pratt and Whitney Aircraft, Middletown, Connecticut, USA.  
\*BT1 enriched uranium reactors  
\*BT1 snap reactors

**snap 7 battery**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE snap batteries

**snap-8 developmental reactor**

USE s8dr reactor

**snap-8 experimental reactor**

USE s8er reactor

**SNAP 8 REACTOR***Rockwell International, Santa Susana, California, USA.*

\*BT1 enriched uranium reactors

\*BT1 snap reactors

NT1 s8dr reactor

NT1 s8er reactor

**SNAP 9 BATTERY**

\*BT1 snap batteries

**SNAP BATTERIES**

1996-07-08

*Battery Systems for Nuclear Auxiliary Power.*

UF snap 1 battery

UF snap 11 battery

UF snap 13 battery

UF snap 15 battery

UF snap 21 battery

UF snap 23 battery

UF snap 29 battery

UF snap 3 battery

UF snap 7 battery

\*BT1 radioisotope batteries

NT1 snap 19 battery

NT1 snap 27 battery

NT1 snap 9 battery

**SNAP REACTORS***Reactor Systems for Nuclear Auxiliary Power.*

UF snap 4 reactor

SF s4 reactor

\*BT1 space power reactors

NT1 snap 10 reactor

NT2 s10fs-1 reactor

NT2 s10fs-3 reactor

NT2 s10fs-4 reactor

NT1 snap 2 reactor

NT2 s2ds reactor

NT1 snap 50 reactor

NT1 snap 8 reactor

NT2 s8dr reactor

NT2 s8er reactor

RT thermionic reactors

**SNAP-TSF REACTOR**

2000-04-12

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

UF snap-2/10a tsf shielding reactor

\*BT1 enriched uranium reactors

\*BT1 potassium cooled reactors

\*BT1 process heat reactors

\*BT1 sodium cooled reactors

**snaptran-1 reactor**

USE snaptran reactors

**snaptran-2 reactor**

USE snaptran reactors

**snaptran-3 reactor**

USE snaptran reactors

**SNAPTRAN REACTORS***USA. Program discontinued in 1960s.*

UF snap-10a transient test reactor

UF snaptran-1 reactor

UF snaptran-2 reactor

UF snaptran-3 reactor

\*BT1 enriched uranium reactors

\*BT1 nak cooled reactors

\*BT1 potassium cooled reactors

\*BT1 sodium cooled reactors

\*BT1 test reactors

**SNEAK REACTOR***Gesellschaft fuer Kernforschung mbH, Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany.*

UF schnelle null-energie anordnung karlsruhe

\*BT1 air cooled reactors

\*BT1 fast reactors

\*BT1 research reactors

\*BT1 zero power reactors

RT enriched uranium reactors

RT plutonium reactors

**sng**

INIS: 2000-04-12; ETDE: 1975-10-01

USE high btu gas

**SNG PLANTS**

INIS: 2000-04-12; ETDE: 1976-10-13

BT1 industrial plants

RT high btu gas

RT sng processes

**SNG PROCESSES**

2000-04-12

*Processes for production of substitute natural gas from hydrocarbon liquids or coal.*

UF carbon dioxide acceptor process

UF gasynthan process

UF jgc methane-rich gas process

UF methane rich gas process

UF mrg process

UF rmprocess

NT1 fluidized bed hydrogenation process

NT1 gas recycle hydrogenation process

NT1 hydrane process

NT1 hygas process

NT1 kellogg process

NT1 peatgas process

NT1 shell gasification process

RT bi-gas process

RT coal gasification

RT exxon gasification process

RT high btu gas

RT koppers-totzek process

RT lurgi process

RT petroleum

RT petroleum products

RT sng plants

RT synthane process

RT winkler process

**SNOW**

BT1 atmospheric precipitations

RT antarctic regions

RT arctic regions

RT cryosphere

RT glaciers

RT ice

RT natural disasters

RT rain

RT slush

RT storms

**snpa-dea process**

2000-04-12

*Process for sweetening raw gas streams containing a total of about 10% or more of acid gases (hydrogen sulfide plus carbon dioxide) at operating pressures of about 500 psig or higher.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**snr-1 reactor**

INIS: 1977-09-06; ETDE: 1976-10-13

(From 1977 to July 1985, this was a valid ETDE descriptor.)

USE snr reactor

**SNR-2 REACTOR**

1976-10-29

*Kalkar, North Rhine Westfalia, Federal Republic of Germany.*

\*BT1 lmfr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**snr-300 reactor**

USE snr reactor

**SNR REACTOR**

ETDE: 1976-10-13

*Kalkar, North Rhine Westfalia, Federal Republic of Germany.*

UF kalkar power reactor

UF schneller natriumgekuehlter reaktor

UF snr-1 reactor

UF snr-300 reactor

\*BT1 lmfr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**SO-10 GROUPS**

INIS: 1981-03-10; ETDE: 1981-04-17

\*BT1 so groups

RT grand unified theory

**SO-12 GROUPS**

INIS: 1986-01-21; ETDE: 1986-03-04

\*BT1 so groups

**SO-2 GROUPS**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 so groups

**SO-3 GROUPS**

\*BT1 so groups

**SO-4 GROUPS**

INIS: 1977-10-17; ETDE: 1977-11-10

\*BT1 so groups

**SO-5 GROUPS**

2006-05-22

\*BT1 so groups

**SO-6 GROUPS**

INIS: 1981-09-18; ETDE: 1981-10-24

\*BT1 so groups

**SO-8 GROUPS**

INIS: 1987-04-28; ETDE: 1987-07-21

\*BT1 so groups

**SO GROUPS**

\*BT1 lie groups

NT1 so-10 groups

NT1 so-12 groups

NT1 so-2 groups

NT1 so-3 groups

NT1 so-4 groups

NT1 so-5 groups

NT1 so-6 groups

NT1 so-8 groups

**SOAPS**

\*BT1 other organic compounds

RT detergents

RT emulsifiers

RT organic acids

**SOC SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

UF silicon on ceramic solar cells

\*BT1 silicon solar cells



**SOCIAL IMPACT**

*INIS: 1992-03-26; ETDE: 1977-01-31*

- RT* aesthetics
- RT* health services
- RT* socio-economic factors
- RT* sociology
- RT* technology impacts

**SOCIAL SERVICES**

*INIS: 1999-12-07; ETDE: 1978-04-06*

- NT1** health services
- RT* boom towns
- RT* local government
- RT* state government

**societal costs**

*2004-09-08*

- SEE external cost

**socio-economic aspects**

*INIS: 1985-11-18; ETDE: 1983-02-09*

(Prior to December 1985 this was a valid descriptor.)

- USE socio-economic factors

**SOCIO-ECONOMIC FACTORS**

*INIS: 1998-01-28; ETDE: 1976-03-11*

(Prior to December 1985 SOCIO-ECONOMIC ASPECTS was used for this concept.)

- UF* socio-economic aspects
- SF* life styles
- SF* values
- BT1** institutional factors
- RT* aesthetics
- RT* communities
- RT* cooperatives
- RT* economic impact
- RT* economics
- RT* financial incentives
- RT* health services
- RT* high income groups
- RT* low income groups
- RT* political aspects
- RT* property values
- RT* social impact
- RT* sociology
- RT* technology impacts

**SOCIOLOGY**

- RT* aesthetics
- RT* anthropology
- RT* black americans
- RT* elderly people
- RT* ethical aspects
- RT* handicapped people
- RT* hispanic americans
- RT* historical aspects
- RT* human factors
- RT* human populations
- RT* leisure time activities
- RT* man
- RT* minority groups
- RT* occupations
- RT* oriental americans
- RT* public anxiety
- RT* public relations
- RT* regional analysis
- RT* social impact
- RT* socio-economic factors
- RT* urban populations

**sod**

*INIS: 1984-04-04; ETDE: 2002-06-13*

- USE superoxide dismutase

**sod (soil)**

*INIS: 1984-04-04; ETDE: 2002-06-13*

- USE soils

**soda ash**

*INIS: 2000-04-12; ETDE: 1977-03-08*

- USE sodium carbonates

**SODDYITE**

- \***BT1** silicate minerals
- \***BT1** uranium minerals
- RT* uranium silicates

**SODIUM**

- \***BT1** alkali metals

**SODIUM 18**

*2008-01-16*

- \***BT1** light nuclei
- \***BT1** odd-odd nuclei
- \***BT1** sodium isotopes

**SODIUM 19**

- \***BT1** light nuclei
- \***BT1** milliseconds living radioisotopes
- \***BT1** odd-even nuclei
- \***BT1** proton decay radioisotopes
- \***BT1** sodium isotopes

**SODIUM 20**

- \***BT1** beta-plus decay radioisotopes
- \***BT1** electron capture radioisotopes
- \***BT1** light nuclei
- \***BT1** milliseconds living radioisotopes
- \***BT1** odd-odd nuclei
- \***BT1** sodium isotopes

**SODIUM 21**

- \***BT1** beta-plus decay radioisotopes
- \***BT1** light nuclei
- \***BT1** odd-even nuclei
- \***BT1** seconds living radioisotopes
- \***BT1** sodium isotopes

**SODIUM 21 TARGET**

*INIS: 1986-12-09; ETDE: 1987-02-24*

- BT1** targets

**SODIUM 22**

- \***BT1** beta-plus decay radioisotopes
- \***BT1** isomeric transition isotopes
- \***BT1** light nuclei
- \***BT1** nanoseconds living radioisotopes
- \***BT1** odd-odd nuclei
- \***BT1** sodium isotopes
- \***BT1** years living radioisotopes

**SODIUM 22 TARGET**

*INIS: 1976-10-07; ETDE: 1976-11-01*

- BT1** targets

**SODIUM 23**

- \***BT1** light nuclei
- \***BT1** odd-even nuclei
- \***BT1** sodium isotopes
- \***BT1** stable isotopes
- RT* sodium 23 beams

**SODIUM 23 BEAMS**

*INIS: 1976-07-06; ETDE: 1976-08-24*

- \***BT1** ion beams
- RT* sodium 23

**SODIUM 23 REACTIONS**

*INIS: 1978-09-28; ETDE: 1978-10-19*

- \***BT1** heavy ion reactions

**SODIUM 23 TARGET**

*ETDE: 1976-07-09*

- BT1** targets

**SODIUM 24**

- \***BT1** beta-minus decay radioisotopes
- \***BT1** hours living radioisotopes
- \***BT1** isomeric transition isotopes
- \***BT1** light nuclei
- \***BT1** milliseconds living radioisotopes

- \***BT1** odd-odd nuclei
- \***BT1** sodium isotopes

**SODIUM 25**

- \***BT1** beta-minus decay radioisotopes
- \***BT1** light nuclei
- \***BT1** odd-even nuclei
- \***BT1** seconds living radioisotopes
- \***BT1** sodium isotopes

**SODIUM 26**

- \***BT1** beta-minus decay radioisotopes
- \***BT1** light nuclei
- \***BT1** odd-odd nuclei
- \***BT1** seconds living radioisotopes
- \***BT1** sodium isotopes

**SODIUM 27**

- \***BT1** beta-minus decay radioisotopes
- \***BT1** light nuclei
- \***BT1** milliseconds living radioisotopes
- \***BT1** odd-even nuclei
- \***BT1** sodium isotopes

**SODIUM 28**

- \***BT1** beta-minus decay radioisotopes
- \***BT1** light nuclei
- \***BT1** milliseconds living radioisotopes
- \***BT1** odd-odd nuclei
- \***BT1** sodium isotopes

**SODIUM 29**

- \***BT1** beta-minus decay radioisotopes
- \***BT1** light nuclei
- \***BT1** milliseconds living radioisotopes
- \***BT1** odd-even nuclei
- \***BT1** sodium isotopes

**SODIUM 30**

- \***BT1** beta-minus decay radioisotopes
- \***BT1** light nuclei
- \***BT1** milliseconds living radioisotopes
- \***BT1** odd-odd nuclei
- \***BT1** sodium isotopes

**SODIUM 31**

- \***BT1** beta-minus decay radioisotopes
- \***BT1** light nuclei
- \***BT1** milliseconds living radioisotopes
- \***BT1** odd-even nuclei
- \***BT1** sodium isotopes

**SODIUM 32**

- \***BT1** beta-minus decay radioisotopes
- \***BT1** light nuclei
- \***BT1** milliseconds living radioisotopes
- \***BT1** odd-odd nuclei
- \***BT1** sodium isotopes

**SODIUM 33**

- \***BT1** beta-minus decay radioisotopes
- \***BT1** light nuclei
- \***BT1** milliseconds living radioisotopes
- \***BT1** odd-even nuclei
- \***BT1** sodium isotopes

**SODIUM 34**

*INIS: 1984-06-21; ETDE: 1984-07-10*

- \***BT1** beta-minus decay radioisotopes
- \***BT1** light nuclei
- \***BT1** milliseconds living radioisotopes
- \***BT1** odd-odd nuclei
- \***BT1** sodium isotopes

**SODIUM 35**

*INIS: 1984-02-23; ETDE: 1983-06-20*

- \***BT1** beta-minus decay radioisotopes
- \***BT1** light nuclei
- \***BT1** milliseconds living radioisotopes
- \***BT1** odd-even nuclei
- \***BT1** sodium isotopes

**SODIUM 37**

2008-01-16

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 sodium isotopes

**SODIUM ADDITIONS**

*Alloys containing not more than 1% Na are listed here.*

- \*BT1 sodium alloys

**SODIUM ALLOYS**

*Alloys containing more than 1% Na.*

- UF *nak*
- BT1 alloys
- NT1 sodium additions
- NT1 sodium base alloys

***sodium aminoethylthiophosphate***

*INIS: 1975-11-07; ETDE: 2002-06-13*

- USE *cystaphos*

**SODIUM BASE ALLOYS**

- \*BT1 sodium alloys

**SODIUM BORIDES**

- \*BT1 borides
- \*BT1 sodium compounds

**SODIUM BROMIDES**

- \*BT1 bromides
- \*BT1 sodium compounds

**SODIUM CARBIDES**

- \*BT1 carbides
- \*BT1 sodium compounds

**SODIUM CARBONATES**

- UF *chlor-alkali industry*
- UF *soda ash*
- \*BT1 carbonates
- \*BT1 sodium compounds
- RT *carbonate minerals*
- RT *dawsonite*
- RT *nahcolite*
- RT *shortite*
- RT *trona*

**SODIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 sodium compounds
- RT *halite*

***sodium citrates***

*INIS: 2000-04-12; ETDE: 1977-04-12*

- USE *citrates*
- USE *sodium compounds*

**SODIUM COMPLEXES**

- \*BT1 alkali metal complexes

**SODIUM COMPOUNDS**

1996-10-23

- UF *hypaque*
- UF *sodium citrates*
- UF *sodium lauryl sulfates*
- BT1 alkali metal compounds
- NT1 borax
- NT1 rochelle salt
- NT1 sodium borides
- NT1 sodium bromides
- NT1 sodium carbides
- NT1 sodium carbonates
- NT1 sodium chlorides
- NT1 sodium fluorides
- NT1 sodium hydrides
- NT1 sodium hydroxides
- NT1 sodium iodides
- NT1 sodium nitrates
- NT1 sodium nitrides
- NT1 sodium oxides

- NT2 sodium tungsten bronze
- NT1 sodium perchlorates
- NT1 sodium phosphates
- NT1 sodium phosphides
- NT1 sodium selenides
- NT1 sodium silicates
- NT1 sodium silicides
- NT1 sodium sulfates
- NT1 sodium sulfides
- NT1 sodium tellurides
- NT1 sodium tungstates
- NT1 sodium uranates
- NT1 tiron

***sodium cooled graphite moderated reactors***

1999-09-17

- USE *sgr type reactors*

**SODIUM COOLED REACTORS**

- \*BT1 liquid metal cooled reactors
- NT1 beloyarsk-3 reactor
- NT1 beloyarsk-4 reactor
- NT1 bn-1600 reactor
- NT1 bn-350 reactor
- NT1 bn-800 reactor
- NT1 bor-60 reactor
- NT1 cdf reactor
- NT1 clinch river breeder reactor
- NT1 ebr-1 reactor
- NT1 ebr-2 reactor
- NT1 enrico fermi-1 reactor
- NT1 fff reactor
- NT1 hnpf reactor
- NT1 knk-2 reactor
- NT1 knk reactor
- NT1 lampre-1 reactor
- NT1 monju reactor
- NT1 pfr reactor
- NT1 phenix reactor
- NT1 rapsodie reactor
- NT1 sbr-5 reactor
- NT1 sefor reactor
- NT1 ser reactor
- NT1 sgr type reactors
- NT2 sre reactor
- NT1 snap 10 reactor
- NT2 s10fs-1 reactor
- NT2 s10fs-3 reactor
- NT2 s10fs-4 reactor
- NT1 snap-tsf reactor
- NT1 snaptran reactors
- NT1 snr-2 reactor
- NT1 snr reactor
- NT1 super phenix reactor
- NT1 zrr reactor
- RT *nak cooled reactors*

***sodium cooled zirconium hydride moderated reactors***

1993-11-09

- USE *szz type reactors*

**SODIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 sodium compounds

**SODIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 sodium compounds

**SODIUM HYDROXIDES**

- UF *chlor-alkali industry*
- \*BT1 hydroxides
- \*BT1 sodium compounds

***sodium iodide detectors***

*INIS: 1979-09-18; ETDE: 1979-02-05*

- USE *nai detectors*

**SODIUM IODIDES**

- \*BT1 inorganic phosphors
- \*BT1 iodides
- \*BT1 sodium compounds

***sodium iodohippurate***

*INIS: 1975-10-23; ETDE: 1980-08-12*

- USE *hippuran*

**SODIUM IONS**

- \*BT1 ions

**SODIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 sodium 18
- NT1 sodium 19
- NT1 sodium 20
- NT1 sodium 21
- NT1 sodium 22
- NT1 sodium 23
- NT1 sodium 24
- NT1 sodium 25
- NT1 sodium 26
- NT1 sodium 27
- NT1 sodium 28
- NT1 sodium 29
- NT1 sodium 30
- NT1 sodium 31
- NT1 sodium 32
- NT1 sodium 33
- NT1 sodium 34
- NT1 sodium 35
- NT1 sodium 37

***sodium lauryl sulfates***

*INIS: 2000-04-12; ETDE: 1980-12-08*

- USE *sodium compounds*
- USE *sulfuric acid esters*

***sodium minerals***

2000-04-12

*Use one of the more specific descriptors under MINERALS.*

*(Prior to May 1982, this was a valid ETDE descriptor.)*

- USE *minerals*

***sodium n-o-iodobenzoylaminoacetate***

*INIS: 1975-10-23; ETDE: 2002-06-13*

- USE *hippuran*

**SODIUM NITRATES**

- \*BT1 nitrates
- \*BT1 sodium compounds

**SODIUM NITRIDES**

*INIS: 1980-02-26; ETDE: 1977-12-22*

- \*BT1 nitrides
- \*BT1 sodium compounds

***sodium orthoiodohippurate***

*INIS: 1975-10-23; ETDE: 2002-06-13*

- USE *hippuran*

**SODIUM OXIDES**

- \*BT1 oxides
- \*BT1 sodium compounds
- NT1 sodium tungsten bronze
- RT *clarkeite*
- RT *oxide minerals*

**SODIUM PERCHLORATES**

- \*BT1 perchlorates
- \*BT1 sodium compounds

**SODIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 sodium compounds

**SODIUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1984-12-26  
(From January 1993 to November 2007 SODIUM COMPOUNDS + PHOSPHIDES was used for this concept.)

- \*BT1 phosphides
- \*BT1 sodium compounds

**sodium reactor experiment**

USE sre reactor

**SODIUM SELENIDES**

INIS: 1991-09-16; ETDE: 1985-10-25

- \*BT1 selenides
- \*BT1 sodium compounds

**SODIUM SILICATES**

1996-06-26

- \*BT1 silicates
- \*BT1 sodium compounds
- RT lavenite
- RT lovozerite
- RT pollucite
- RT silicate minerals

**SODIUM SILICIDES**

INIS: 1996-07-23; ETDE: 1976-07-07  
(From July 1996 to November 2007 SODIUM COMPOUNDS + SILICIDES was used for this concept.)

- \*BT1 silicides
- \*BT1 sodium compounds

**SODIUM SULFATES**

1996-07-08

- UF glauher's salt
- \*BT1 sodium compounds
- \*BT1 sulfates
- RT sulfate minerals

**SODIUM SULFIDES**

- \*BT1 sodium compounds
- \*BT1 sulfides

**SODIUM-SULFUR BATTERIES**

1996-06-19

- \*BT1 metal-nonmetal batteries

**SODIUM TELLURIDES**

INIS: 1979-02-21; ETDE: 1976-11-01

- \*BT1 sodium compounds
- \*BT1 tellurides

**SODIUM TUNGSTATES**

1976-10-07

- \*BT1 sodium compounds
- \*BT1 tungstates

**SODIUM TUNGSTEN BRONZE**

INIS: 2000-04-12; ETDE: 1979-08-09  
*One of a series of metallic substances consisting of metallic and nonmetallic elements.*

- UF bronze (sodium tungsten)
- \*BT1 sodium oxides
- \*BT1 tungsten oxides
- RT perovskites

**SODIUM URANATES**

- \*BT1 sodium compounds
- \*BT1 uranates

**sodium-water reactions**

INIS: 2000-04-12; ETDE: 1977-04-12

USE molten metal-water reactions

**sodium(liquid)-water reactions**

INIS: 1977-09-15; ETDE: 2002-06-13

USE molten metal-water reactions

**sofc**

INIS: 2000-04-12; ETDE: 1989-04-12  
*Solid Oxide Fuel Cells.*

USE solid oxide fuel cells

**sofia irt-2000 reactor**

INIS: 1984-07-20; ETDE: 2002-06-13

USE irt-sofia reactor

**soft coal**

INIS: 2000-04-12; ETDE: 1991-11-25

- SEE bituminous coal
- SEE brown coal
- SEE lignite

**SOFT COMPONENT**

- \*BT1 cosmic radiation

**SOFT-CORE POTENTIAL**

- \*BT1 nuclear potential

**soft pion theorem**

INIS: 2000-04-12; ETDE: 1979-02-23

USE low-energy theorem

**soft-pion theorem**

INIS: 2000-04-12; ETDE: 1979-04-12

USE low-energy theorem

**soft soldering**

USE soldering

**SOFT X RADIATION**

- \*BT1 x radiation

**SOIL CHEMISTRY**

INIS: 1992-03-11; ETDE: 1977-03-04

- BT1 chemistry
- RT agriculture
- RT biochemistry
- RT fertilizers
- RT liming
- RT soil conservation
- RT soils

**SOIL CONSERVATION**

INIS: 1992-07-07; ETDE: 1978-04-05  
*Management of soils to optimize crop yields while improving soil texture and stability.*

- BT1 resource conservation
- RT agriculture
- RT crops
- RT erosion
- RT erosion control
- RT fertilizers
- RT irrigation
- RT land reclamation
- RT revegetation
- RT sewage sludge
- RT soil chemistry
- RT soil mechanics
- RT soils

**SOIL MECHANICS**

INIS: 1977-03-14; ETDE: 1976-08-04  
*Application of principles of mechanics and geology to quantify the response of soils to environmental forces.*

- BT1 mechanics
- RT earth crust
- RT ground water
- RT overburden
- RT rock falls
- RT rock mechanics
- RT sea bed
- RT soil conservation
- RT soils

**SOIL-STRUCTURE INTERACTIONS**

INIS: 1984-10-23; ETDE: 1984-02-10

- RT buildings
- RT dynamic loads

- RT earthquakes
- RT engineering geology
- RT foundations
- RT ground motion
- RT mechanical structures
- RT seismic effects
- RT seismic isolation
- RT shock waves

**soiling**

INIS: 2000-04-12; ETDE: 1982-08-11

USE surface contamination

**SOILS**

- UF sod (soil)
- NT1 loam
- RT acid neutralizing capacity
- RT aerobacter
- RT agriculture
- RT alluvial deposits
- RT clays
- RT ecosystems
- RT embankments
- RT environmental materials
- RT fallout deposits
- RT fulvic acids
- RT ground water
- RT humic acids
- RT humus
- RT irrigation
- RT liming
- RT nitrogen fixation
- RT peat
- RT permafrost
- RT plants
- RT proteus
- RT radionuclide migration
- RT roots
- RT sand
- RT soil chemistry
- RT soil conservation
- RT soil mechanics
- RT terrestrial ecosystems
- RT underground

**soja bean oil**

USE soybean oil

**SOL-GEL PROCESS**

- RT colloids
- RT fuel cycle
- RT gelation
- RT reprocessing

**SOLANUM**

INIS: 1979-01-18; ETDE: 1979-02-23

- \*BT1 magnoliopsida
- NT1 solanum tuberosum

**SOLANUM TUBEROSUM**

- UF potato plant
- \*BT1 solanum
- RT potatoes

**SOLAR ABSORBERS**

INIS: 1992-02-22; ETDE: 1977-10-20

- UF absorbers (solar)
- \*BT1 solar equipment
- RT antireflection coatings
- RT black coatings
- RT black liquids
- RT black nickel
- RT coatings
- RT solar collectors
- RT solar receivers
- RT spectrally selective surfaces

**SOLAR ACCESS**

*INIS: 2000-04-12; ETDE: 1980-09-22*

*The availability of sunlight to solar collectors and other solar energy systems.*

(Prior to September 1980 this concept in ETDE was indexed by SOLAR RIGHTS.)

- RT direct solar radiation
- RT solar rights

**SOLAR ACTIVITY**

- BT1 stellar activity
- NT1 faculae
- NT1 plages
- NT1 solar flares
- NT1 solar granulation
- NT1 solar prominences
- NT1 solar radio bursts
- NT1 solar wind
- NT1 solar x-ray bursts
- NT1 sunspots
- RT activity levels
- RT solar cycle
- RT sun

**SOLAR AIR CONDITIONERS**

*2000-04-12*

- BT1 air conditioners
- \*BT1 solar cooling systems
- NT1 solar-assisted heat pumps
- RT solar air conditioning
- RT vuilleumier cycle

**SOLAR AIR CONDITIONING**

*2000-04-12*

- BT1 air conditioning
- RT radiative cooling
- RT solar air conditioners
- RT solar regenerators

**SOLAR AIR HEATERS**

*2000-04-12*

*Solar collectors that use air as heat transfer fluid.*

- \*BT1 air heaters
- \*BT1 solar collectors
- RT flat plate collectors
- RT passive solar heating systems

**SOLAR ALPHA PARTICLES**

*INIS: 1985-07-22; ETDE: 1975-08-19*

(Prior to August 1985 this concept was expressed by coordination of ALPHA PARTICLES and ENERGETIC SOLAR PARTICLES.)

- \*BT1 alpha particles
- \*BT1 solar particles

**SOLAR ARCHITECTURE**

*INIS: 1992-03-10; ETDE: 1979-12-10*

*Building design that integrates the thermal, directional, and seasonal aspects of solar radiation.*

- UF *building-integrated energy-producing components*
- BT1 architecture
- RT architects
- RT buildings
- RT passive solar cooling systems
- RT passive solar heating systems
- RT solar cooling systems
- RT solar energy
- RT solar heating systems

**SOLAR-ASSISTED HEAT PUMPS**

*INIS: 1992-08-20; ETDE: 1976-08-24*

- BT1 heat pumps
- \*BT1 solar air conditioners
- \*BT1 solar heating systems
- RT ground source heat pumps

**SOLAR-ASSISTED POWER****SYSTEMS**

*INIS: 1993-01-22; ETDE: 1977-04-12*

- \*BT1 power systems
- RT heat engines
- RT thermal energy storage equipment

**SOLAR ATMOSPHERE**

- \*BT1 stellar atmospheres
- NT1 chromosphere
- NT1 heliosphere
- NT1 photosphere
- NT1 solar corona
- RT sun

**solar batteries**

*1992-05-29*

- USE solar cell arrays

**SOLAR BATTERY CHARGERS**

*INIS: 1992-07-23; ETDE: 1976-01-23*

- \*BT1 battery chargers
- \*BT1 solar equipment

**SOLAR CELL ARRAYS**

*1992-05-29*

- UF *solar batteries*
- \*BT1 solar equipment
- NT1 solar tracking systems
- RT photovoltaic cells
- RT photovoltaic power plants
- RT photovoltaic power supplies
- RT solar cells

**solar cell receivers**

*INIS: 1992-05-29; ETDE: 1979-09-26*

- USE solar receivers

**SOLAR CELLS**

*1997-06-19*

- \*BT1 photovoltaic cells
- \*BT1 solar equipment
- NT1 aluminium arsenide solar cells
- NT1 back contact solar cells
- NT1 cadmium arsenide solar cells
- NT1 cadmium selenide solar cells
- NT1 cadmium sulfide solar cells
- NT1 cadmium telluride solar cells
- NT1 cascade solar cells
- NT1 concentrator solar cells
- NT1 copper oxide solar cells
- NT1 copper selenide solar cells
- NT1 copper sulfide solar cells
- NT1 gallium arsenide solar cells
- NT1 gallium phosphide solar cells
- NT1 indium phosphide solar cells
- NT1 indium selenide solar cells
- NT1 mi solar cells
- NT1 mis solar cells
- NT1 mos solar cells
- NT1 ms solar cells
- NT1 organic solar cells
- NT1 pis solar cells
- NT1 ps solar cells
- NT1 schottky barrier solar cells
- NT1 selenium solar cells
- NT1 silicon arsenide solar cells
- NT1 silicon solar cells
- NT2 soc solar cells
- NT1 zinc phosphide solar cells
- NT1 zinc sulfide solar cells
- RT combined collectors
- RT depletion layer
- RT graded band gaps
- RT photovoltaic power supplies
- RT solar cell arrays
- RT solar collectors

**solar central receivers**

*INIS: 1993-01-28; ETDE: 1993-02-04*

- USE central receivers

**SOLAR CHIMNEYS**

*INIS: 2000-04-12; ETDE: 1984-11-08*

- BT1 chimneys
- RT solar thermal power plants
- RT tornado turbines
- RT wind turbines

**SOLAR COLLECTORS**

*1997-06-17*

- \*BT1 solar equipment
- NT1 combined collectors
- NT1 concentrating collectors
- NT2 fixed mirror collectors
- NT2 parabolic collectors
- NT3 parabolic dish collectors
- NT3 parabolic trough collectors
- NT2 slat type collectors
- NT2 tower focus collectors
- NT2 v trough collectors
- NT1 evacuated collectors
- NT2 evacuated tube collectors
- NT1 flat plate collectors
- NT2 trickle-type collectors
- NT1 inflatable collectors
- NT1 solar air heaters
- NT1 solar ponds
- NT2 roof ponds
- NT1 solar tracking systems
- NT1 unglazed solar collectors
- RT black liquids
- RT central receivers
- RT f-chart
- RT honeycomb structures
- RT solar absorbers
- RT solar cells
- RT solar furnaces
- RT solar receivers
- RT thermic diode solar panels

**SOLAR CONCENTRATORS**

*INIS: 1992-05-28; ETDE: 1975-10-28*

- \*BT1 solar equipment
- NT1 cassegrainian concentrators
- NT1 compound parabolic concentrators
- NT1 luminescent concentrators
- NT1 solar reflectors
- NT2 fresnel reflectors
- NT2 orbital solar reflectors
- NT2 parabolic reflectors
- NT3 parabolic dish reflectors
- NT3 parabolic trough reflectors
- RT concentrating collectors
- RT concentration ratio
- RT concentrator solar cells
- RT fresnel lens
- RT mirrors
- RT solar receivers

**SOLAR CONSTANT**

*1979-01-18*

*Solar energy flux just outside the earth's atmosphere at the earth's mean distance from the sun.*

- RT solar radiation

**SOLAR CONTROL FILMS**

*INIS: 2000-04-12; ETDE: 1980-02-11*

- BT1 films
- RT coatings
- RT heat mirrors
- RT reflective coatings
- RT windows

**SOLAR COOKERS**

*2000-04-12*

- \*BT1 solar equipment
- RT solar cooking

**SOLAR COOKING**

*2000-04-12*

- RT solar cookers

RT solar heating

### SOLAR COOLING SYSTEMS

INIS: 1994-09-29; ETDE: 1977-07-23

\*BT1 solar equipment

NT1 passive solar cooling systems

NT2 bead walls

NT2 drum walls

NT2 roof ponds

NT1 solar air conditioners

NT2 solar-assisted heat pumps

NT1 solar refrigerators

RT cold storage

RT solar architecture

### SOLAR CORONA

UF corona (solar)

\*BT1 solar atmosphere

\*BT1 stellar coronae

RT solar prominences

RT solar wind

RT sun

### SOLAR CYCLE

RT international solar maximum year

RT solar activity

RT sun

RT sunspots

### SOLAR DISTILLATION

1999-07-13

(Until July 1999 this information was indexed by SOLAR ENERGY and DISTILLATION.)

\*BT1 distillation

RT solar process heat

RT solar stills

### SOLAR DISTRICT HEATING

INIS: 2000-04-12; ETDE: 1979-09-26

District heating using a solar source for all or part of the heat supply.

\*BT1 district heating

\*BT1 solar heating

RT central heating plants

RT solar heating systems

RT solar space heating

### solar domestic water heating

INIS: 2000-04-12; ETDE: 1977-12-22

USE solar water heating

### SOLAR DRYERS

2000-04-12

Dryers using a solar heat source, primarily used for crop drying. For wood drying, use solar kilns.

BT1 dryers

\*BT1 solar equipment

RT solar furnaces

RT solar process heat

### SOLAR DRYING

INIS: 1976-10-07; ETDE: 1975-11-11

BT1 drying

RT solar heating

RT solar process heat

### SOLAR ELECTRIC PROPULSION

2000-04-12

BT1 propulsion

### solar electron events

(Prior to August 1985 this concept was expressed by coordination of ELECTRONS and ENERGETIC SOLAR PARTICLES.)

USE solar electrons

### SOLAR ELECTRONS

INIS: 1985-07-22; ETDE: 1975-08-19

(Prior to August 1985 this concept was expressed by coordination of ELECTRONS and ENERGETIC SOLAR PARTICLES.)

UF solar electron events

\*BT1 electrons

\*BT1 solar particles

### SOLAR ENERGY

BT1 energy

\*BT1 renewable energy sources

RT national renewable energy laboratory

RT solar architecture

RT solar heating

RT solar industry

RT solar radiation

RT solar rights

RT sun

### SOLAR ENERGY CONVERSION

1991-12-11

\*BT1 energy conversion

NT1 ocean thermal energy conversion

NT1 solar thermal conversion

RT photoelectrolysis

### solar energy information data bank

INIS: 2000-04-12; ETDE: 1981-07-18

USE seidd

### solar energy research institute

INIS: 1994-06-13; ETDE: 1978-02-14

(Until June 1994 this was a valid descriptor.)

USE national renewable energy laboratory

### SOLAR EQUIPMENT

INIS: 1992-02-22; ETDE: 1980-03-04

BT1 equipment

NT1 heliostats

NT2 solar tracking systems

NT1 photovoltaic power supplies

NT1 pyranometers

NT1 pyrheliometers

NT1 solar absorbers

NT1 solar battery chargers

NT1 solar cell arrays

NT2 solar tracking systems

NT1 solar cells

NT2 aluminium arsenide solar cells

NT2 back contact solar cells

NT2 cadmium arsenide solar cells

NT2 cadmium selenide solar cells

NT2 cadmium sulfide solar cells

NT2 cadmium telluride solar cells

NT2 cascade solar cells

NT2 concentrator solar cells

NT2 copper oxide solar cells

NT2 copper selenide solar cells

NT2 copper sulfide solar cells

NT2 gallium arsenide solar cells

NT2 gallium phosphide solar cells

NT2 indium phosphide solar cells

NT2 indium selenide solar cells

NT2 mi solar cells

NT2 mis solar cells

NT2 mos solar cells

NT2 ms solar cells

NT2 organic solar cells

NT2 pis solar cells

NT2 ps solar cells

NT2 schottky barrier solar cells

NT2 selenium solar cells

NT2 silicon arsenide solar cells

NT2 silicon solar cells

NT3 soc solar cells

NT2 zinc phosphide solar cells

NT2 zinc sulfide solar cells

NT1 solar collectors

NT2 combined collectors

NT2 concentrating collectors

NT3 fixed mirror collectors

NT3 parabolic collectors

NT4 parabolic dish collectors

NT4 parabolic trough collectors

NT3 slat type collectors

NT3 tower focus collectors

NT3 v trough collectors

NT2 evacuated collectors

NT3 evacuated tube collectors

NT2 flat plate collectors

NT3 trickle-type collectors

NT2 inflatable collectors

NT2 solar air heaters

NT2 solar ponds

NT3 roof ponds

NT2 solar tracking systems

NT2 unglazed solar collectors

NT1 solar concentrators

NT2 cassegrainian concentrators

NT2 compound parabolic concentrators

NT2 luminescent concentrators

NT2 solar reflectors

NT3 fresnel reflectors

NT3 orbital solar reflectors

NT3 parabolic reflectors

NT4 parabolic dish reflectors

NT4 parabolic trough reflectors

NT1 solar cookers

NT1 solar cooling systems

NT2 passive solar cooling systems

NT3 bead walls

NT3 drum walls

NT3 roof ponds

NT2 solar air conditioners

NT3 solar-assisted heat pumps

NT2 solar refrigerators

NT1 solar dryers

NT1 solar furnaces

NT1 solar heating systems

NT2 passive solar heating systems

NT3 bead walls

NT3 direct gain systems

NT3 drum walls

NT3 roof ponds

NT3 thermic diode solar panels

NT3 trombe walls

NT3 water walls

NT2 solar-assisted heat pumps

NT1 solar kilns

NT1 solar regenerators

NT1 solar simulators

NT1 solar stills

NT1 solar water heaters

NT2 passive solar water heaters

NT3 thermic diode solar panels

NT1 solar water pumps

NT1 spectrally selective surfaces

RT photoelectrochemical cells

RT thermal energy storage equipment

### SOLAR FLARES

\*BT1 solar activity

\*BT1 stellar flares

RT chromosphere

RT forrush decrease

RT magnetic reconnection

RT solar particles

RT solar radiation

RT solar radio bursts

RT solar wind

RT solar x-ray bursts

RT space flight

RT sun

RT sunspots

RT supersonic transport

### SOLAR FLUX

1992-04-08

BT1 radiation flux

- NT1** diffuse solar radiation  
**NT1** direct solar radiation  
*RT* insolation  
*RT* pyrhemometers  
*RT* shading  
*RT* solar radiation  
*RT* solar simulators
- SOLAR FRACTION**  
*INIS: 2000-04-12; ETDE: 1981-05-18*  
*Ratio of solar contribution to net thermal load.*  
*RT* energy conservation  
*RT* heat gain  
*RT* heating load
- SOLAR FURNACES**  
*1997-06-17*  
*BT1* furnaces  
*\*BT1* solar equipment  
*RT* cnrs solar facility  
*RT* solar collectors  
*RT* solar dryers  
*RT* solar process heat  
*RT* white sands solar facility
- SOLAR GRANULATION**  
*Small "rice grain" structures on the photosphere of the Sun.*  
*UF* granulation (solar)  
*UF* supergranulation  
*\*BT1* solar activity  
*RT* photosphere  
*RT* sun
- SOLAR HEAT ENGINES**  
*1992-05-21*  
*\*BT1* heat engines  
*RT* brayton cycle power systems  
*RT* nitinol heat engines  
*RT* regeneration  
*RT* regenerators  
*RT* solar thermal conversion  
*RT* stirling engines
- SOLAR HEATING**  
*1992-09-07*  
 (Until September 1992, this concept was indexed by HEATING and SOLAR ENERGY.)  
*BT1* heating  
*NT1* solar district heating  
*NT1* solar space heating  
*NT1* solar water heating  
*RT* cooling load  
*RT* heating load  
*RT* solar cooking  
*RT* solar drying  
*RT* solar energy
- SOLAR HEATING SYSTEMS**  
*INIS: 1992-08-20; ETDE: 1975-11-11*  
*SF* freeze-cycle system  
*\*BT1* heating systems  
*\*BT1* solar equipment  
*NT1* passive solar heating systems  
*NT2* bead walls  
*NT2* direct gain systems  
*NT2* drum walls  
*NT2* roof ponds  
*NT2* thermic diode solar panels  
*NT2* trombe walls  
*NT2* water walls  
*NT1* solar-assisted heat pumps  
*RT* f-chart  
*RT* solar architecture  
*RT* solar district heating  
*RT* solar process heat  
*RT* solar space heating

- SOLAR INDUSTRY**  
*INIS: 1993-01-21; ETDE: 1977-12-22*  
*BT1* industry  
*RT* solar energy
- SOLAR KILNS**  
*2000-04-12*  
*BT1* kilns  
*\*BT1* solar equipment  
*RT* drying  
*RT* solar process heat
- solar models**  
*INIS: 1975-10-23; ETDE: 1975-12-16*  
 USE star models
- SOLAR NEBULA**  
*BT1* nebulae  
*RT* cosmological models  
*RT* protoplanets  
*RT* solar system evolution
- SOLAR NEUTRINOS**  
*INIS: 1985-07-22; ETDE: 1975-07-29*  
 (Prior to August 1985 this concept was expressed by coordination of ENERGETIC SOLAR PARTICLES and NEUTRINOS.)  
*\*BT1* neutrinos  
*\*BT1* solar particles
- SOLAR NEUTRONS**  
*INIS: 1985-07-22; ETDE: 1976-04-19*  
 (Prior to August 1985 this concept was expressed by coordination of ENERGETIC SOLAR PARTICLES and NEUTRONS.)  
*\*BT1* neutrons  
*\*BT1* solar particles
- solar occultation**  
 USE eclipse
- solar one power plant**  
*INIS: 2000-04-12; ETDE: 1983-04-07*  
 USE barstow solar pilot plant
- SOLAR PARTICLES**  
*1985-11-18*  
 (Prior to December 1985 SOLAR RADIATION was used for this concept except where ENERGETIC SOLAR PARTICLES was appropriate.)  
*UF* energetic solar particles  
*\*BT1* solar radiation  
*NT1* solar alpha particles  
*NT1* solar electrons  
*NT1* solar neutrinos  
*NT1* solar neutrons  
*NT1* solar protons  
*RT* polar-cap absorption  
*RT* solar flares
- SOLAR PHOTOCHEMISTRY**  
*2005-05-25*  
*\*BT1* photochemistry  
*RT* photochemical energy storage  
*RT* solar radiation
- SOLAR PONDS**  
*INIS: 2000-05-08; ETDE: 1975-09-11*  
*\*BT1* ponds  
*\*BT1* solar collectors  
*NT1* roof ponds  
*RT* inflatable collectors  
*RT* solar water heaters
- SOLAR POWER PLANTS**  
*1976-07-06*  
*BT1* power plants  
*NT1* ocean thermal power plants  
*NT1* orbital solar power plants  
*NT1* photovoltaic power plants  
*NT1* salinity gradient power plants

- NT1** solar thermal power plants  
**NT2** distributed collector power plants  
**NT2** tower focus power plants  
**NT3** barstow solar pilot plant  
*RT* orbital solar reflectors
- SOLAR PROCESS HEAT**  
*INIS: 2000-04-12; ETDE: 1978-03-03*  
*\*BT1* process heat  
*RT* solar distillation  
*RT* solar dryers  
*RT* solar drying  
*RT* solar furnaces  
*RT* solar heating systems  
*RT* solar kilns  
*RT* solar stills  
*RT* solar water heaters
- SOLAR PROMINENCES**  
*UF* prominences (solar)  
*UF* spicules  
*\*BT1* solar activity  
*RT* solar corona  
*RT* sun
- solar proton events**  
 (Prior to August 1985 this concept was expressed by coordination of ENERGETIC SOLAR PARTICLES and PROTONS.)  
 USE solar protons
- SOLAR PROTONS**  
*INIS: 1985-07-22; ETDE: 1975-07-29*  
 (Prior to August 1985 this concept was expressed by coordination of ENERGETIC SOLAR PARTICLES and PROTONS.)  
*UF* solar proton events  
*UF* spe  
*\*BT1* protons  
*\*BT1* solar particles
- SOLAR RADIATION**  
*\*BT1* stellar radiation  
**NT1** diffuse solar radiation  
**NT1** direct solar radiation  
**NT1** solar particles  
**NT2** solar alpha particles  
**NT2** solar electrons  
**NT2** solar neutrinos  
**NT2** solar neutrons  
**NT2** solar protons  
**NT1** solar radiowave radiation  
*RT* cosmic radiation  
*RT* daylighting  
*RT* insolation  
*RT* pyranometers  
*RT* solar constant  
*RT* solar energy  
*RT* solar flares  
*RT* solar flux  
*RT* solar photochemistry  
*RT* solar radio bursts  
*RT* solar wind  
*RT* solar x-ray bursts  
*RT* sun  
*RT* sun charts  
*RT* zodiacal light
- SOLAR RADIO BURSTS**  
*\*BT1* radiowave radiation  
*\*BT1* solar activity  
*RT* magnetic reconnection  
*RT* radioastronomy  
*RT* solar flares  
*RT* solar radiation  
*RT* solar radiowave radiation  
*RT* sun
- SOLAR RADIOWAVE RADIATION**  
*INIS: 1976-03-17; ETDE: 1975-08-19*  
*\*BT1* radiowave radiation

- \*BT1 solar radiation
- RT solar radio bursts

**SOLAR RECEIVERS**

INIS: 1992-05-28; ETDE: 1979-09-26

Systems designed to receive concentrated sunlight and convert it to some other energy form. They incorporate an absorber or a concentrator solar cell assembly.

- UF receivers (solar)
- UF solar cell receivers
- UF solar thermal receivers
- NT1 cavity receivers
- NT1 central receivers
- NT1 external receivers
- RT concentrating collectors
- RT concentrator solar cells
- RT solar absorbers
- RT solar collectors
- RT solar concentrators
- RT solar thermal conversion

**SOLAR REFLECTORS**

1992-07-09

- \*BT1 solar concentrators
- NT1 fresnel reflectors
- NT1 orbital solar reflectors
- NT1 parabolic reflectors
- NT2 parabolic dish reflectors
- NT2 parabolic trough reflectors
- RT mirrors
- RT optical systems

**SOLAR REFRIGERATION**

1994-09-29

- \*BT1 refrigeration
- RT solar refrigerators

**SOLAR REFRIGERATORS**

1994-09-29

- BT1 refrigerators
- \*BT1 solar cooling systems
- RT solar refrigeration

**SOLAR REGENERATORS**

INIS: 2000-04-12; ETDE: 1979-07-18

Systems or devices for regenerating absorbent solutions by solar heating; used in absorption solar air conditioning.

- BT1 regenerators
- \*BT1 solar equipment
- RT solar air conditioning

**SOLAR REPOWERING**

INIS: 2000-04-12; ETDE: 1980-10-07

The adaptation of a solar thermal steam supply system into an existing thermal power plant.

(Prior to October 1980 this concept in ETDE was indexed by RETROFITTING.)

- SF repowering
- RT fossil-fuel power plants
- RT retrofitting
- RT solar thermal power plants

**SOLAR RIGHTS**

INIS: 2000-04-12; ETDE: 1978-04-05

The legal right to solar access.

- RT laws
- RT legal aspects
- RT ownership
- RT solar access
- RT solar energy

**solar sea power plants**

INIS: 1991-12-11; ETDE: 1977-04-12

- USE ocean thermal power plants

**SOLAR SIMULATORS**

INIS: 2000-04-12; ETDE: 1975-12-16

Equipment to simulate the solar flux for test purposes.

- \*BT1 simulators
- \*BT1 solar equipment
- RT insolation
- RT solar flux

**SOLAR SPACE HEATING**

1992-09-07

- \*BT1 solar heating
- \*BT1 space heating
- RT solar district heating
- RT solar heating systems

**SOLAR STILLS**

2000-04-12

Distillation apparatuses that use solar radiation heating to evaporate the water. Can be used for water purification or desalting.

- BT1 evaporators
- \*BT1 solar equipment
- RT solar distillation
- RT solar process heat

**SOLAR SYSTEM**

- RT asteroids
- RT comets
- RT halley comet
- RT interplanetary space
- RT meteoroids
- RT planets
- RT solar system evolution
- RT sun

**SOLAR SYSTEM EVOLUTION**

(From November 1975 till March 1997

PLANETARY EVOLUTION was a valid ETDE descriptor.)

- UF planetary evolution
- BT1 evolution
- RT planet-system accretion
- RT protoplanets
- RT solar nebula
- RT solar system
- RT star evolution

**SOLAR THERMAL CONVERSION**

INIS: 1992-04-07; ETDE: 1981-09-08

Use for overviews of solar thermal program.

- \*BT1 solar energy conversion
- RT solar heat engines
- RT solar receivers
- RT solar thermal power plants

**SOLAR THERMAL POWER PLANTS**

1992-03-11

- \*BT1 solar power plants
- \*BT1 thermal power plants
- NT1 distributed collector power plants
- NT1 tower focus power plants
- NT2 barstow solar pilot plant
- RT microgeneration
- RT solar chimneys
- RT solar repowering
- RT solar thermal conversion

**solar thermal receivers**

INIS: 1992-05-29; ETDE: 1979-09-26

- USE solar receivers

**solar thermal test facility**

INIS: 2000-04-12; ETDE: 1981-07-18

- USE central receiver test facility

**SOLAR TRACKING**

2000-04-12

- NT1 solar tracking systems
- RT control equipment
- RT heliostats

- RT tilt mechanisms

**SOLAR TRACKING SYSTEMS**

INIS: 2000-04-12; ETDE: 1983-02-09

- \*BT1 heliostats
- \*BT1 solar cell arrays
- \*BT1 solar collectors
- BT1 solar tracking

**SOLAR WATER HEATERS**

1997-06-17

- SF freeze-cycle system
- \*BT1 solar equipment
- \*BT1 water heaters
- NT1 passive solar water heaters
- NT2 thermic diode solar panels
- RT f-chart
- RT solar ponds
- RT solar process heat
- RT solar water heating

**SOLAR WATER HEATING**

INIS: 1992-09-07; ETDE: 1977-12-22

Use for solar domestic water heating; not for process hot water.

- UF solar domestic water heating
- \*BT1 solar heating
- \*BT1 water heating
- RT solar water heaters

**SOLAR WATER PUMPS**

1992-04-10

- \*BT1 solar equipment
- \*BT1 water pumps

**SOLAR WIND**

- \*BT1 solar activity
- \*BT1 stellar winds
- RT chapman-ferraro problem
- RT expansion
- RT forbush decrease
- RT geocorona
- RT loss cone
- RT magnetosheath
- RT plasma
- RT radiation pressure
- RT solar corona
- RT solar flares
- RT solar radiation
- RT sun

**SOLAR X-RAY BURSTS**

- \*BT1 solar activity
- RT magnetic reconnection
- RT solar flares
- RT solar radiation
- RT sun
- RT x radiation

**SOLAS CONVENTION**

London Convention on Safety of Life at Sea.

- UF london safety of life at sea convention
- UF safety of life at sea convention
- UF sea, safety of life at, convention
- \*BT1 international agreements
- RT civil liability
- RT nuclear ships
- RT recommendations
- RT regulations

**solder fluxes**

INIS: 2000-04-12; ETDE: 1975-08-19

(Prior to October 1981, this was a valid ETDE descriptor.)

- USE metallurgical flux

**SOLDERED JOINTS**

- BT1 joints
- RT soldering

**SOLDERING**

- UF soft soldering

\*BT1 welding  
 RT brazing  
 RT soldered joints

### soldering fluxes

INIS: 1981-08-06; ETDE: 1981-09-22  
 USE metallurgical flux

### SOLENOIDS

UF inductors  
 UF superconducting solenoids  
 \*BT1 electric coils  
 RT actuators  
 RT magnet coils

### SOLFATARAS

2000-04-12  
*Fumaroles, the gases of which are characteristically sulfurous.*  
 BT1 fumaroles

### solfrac process

INIS: 2000-04-12; ETDE: 1977-01-28  
*Combination of chemical explosive fracturing and solvent injection for heavy-oil recovery.*  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE enhanced recovery  
 USE explosive fracturing

### SOLID CLUSTERS

UF clusters (solid)  
 RT solids

### SOLID ELECTROLYTE FUEL CELLS

INIS: 1992-05-20; ETDE: 1989-04-12  
 (Prior to April 1989 this subject was indexed to HIGH-TEMPERATURE FUELS or FUEL CELLS.)  
 \*BT1 fuel cells  
 NT1 proton exchange membrane fuel cells  
 NT1 solid oxide fuel cells

### SOLID ELECTROLYTES

INIS: 1981-10-15; ETDE: 1979-05-09  
 BT1 electrolytes  
 RT electric batteries  
 RT fuel cells

### SOLID FUELS

1999-05-06  
 BT1 fuels  
 NT1 alloy nuclear fuels  
 NT2 uranium-molybdenum fuels  
 NT1 briquets  
 NT1 dispersion nuclear fuels  
 NT1 mixed carbide fuels  
 NT1 mixed nitride fuels  
 NT1 mixed oxide fuels  
 NT1 peat  
 NT1 wood fuels  
 RT bark  
 RT biomass  
 RT charcoal  
 RT coal  
 RT coke  
 RT pulverized fuels  
 RT wood

### SOLID HOMOGENEOUS REACTORS

\*BT1 homogeneous reactors  
 NT1 acpr reactor  
 NT1 aerjet-general nucleonics reactors  
 NT1 akr-1 reactor  
 NT1 anex reactor  
 NT1 ebor reactor  
 NT1 nsrr reactor  
 NT1 pebble bed reactors  
 NT2 avr reactor  
 NT2 thtr-300 reactor  
 NT2 vg-400 reactor  
 NT2 vgr-50 reactor

NT1 romashka reactor  
 NT1 shca reactor  
 NT1 sur-100 series reactor  
 NT1 treat reactor  
 NT1 triga type reactors  
 NT2 aftri reactor  
 NT2 atpr reactor  
 NT2 colorado triga-mk-3 reactor  
 NT2 cornell triga-mk-2 reactor  
 NT2 dow triga-mk-1 reactor  
 NT2 fir-1 reactor  
 NT2 fir-2 reactor  
 NT2 fn reactor  
 NT2 gulf triga-mk-3 reactor  
 NT2 kartini-ppny reactor  
 NT2 lopra reactor  
 NT2 nscr reactor  
 NT2 ostr reactor  
 NT2 prpr reactor  
 NT2 pstr reactor  
 NT2 rtp reactor  
 NT2 trico reactor  
 NT2 triga-1-arizona reactor  
 NT2 triga-1-california reactor  
 NT2 triga-1-hanford reactor  
 NT2 triga-1-hanover reactor  
 NT2 triga-1-heidelberg reactor  
 NT2 triga-1-michigan reactor  
 NT2 triga-2-bandung reactor  
 NT2 triga-2-bangladesh reactor  
 NT2 triga-2-dalat reactor  
 NT2 triga-2-illinois reactor  
 NT2 triga-2-kansas reactor  
 NT2 triga-2-ljubljana reactor  
 NT2 triga-2-mainz reactor  
 NT2 triga-2-musashi reactor  
 NT2 triga-2-pavia reactor  
 NT2 triga-2-pitesti reactor  
 NT2 triga-2 reactor  
 NT2 triga-2-rikkyo reactor  
 NT2 triga-2-rome reactor  
 NT2 triga-2-seoul reactor  
 NT2 triga-2-vienna reactor  
 NT2 triga-3-la jolla reactor  
 NT2 triga-3-munich reactor  
 NT2 triga-3-salazar reactor  
 NT2 triga-3-seoul reactor  
 NT2 triga-brazil reactor  
 NT2 triga-texas reactor  
 NT2 triga-veterans reactor  
 NT2 ucbr reactor  
 NT2 uwnr reactor  
 NT2 wsur reactor

### SOLID LUBRICANTS

BT1 lubricants  
 RT graphite

### solid moderated reactor

2000-04-12  
 SEE graphite moderated reactors

### SOLID OXIDE FUEL CELLS

INIS: 2000-04-12; ETDE: 1999-09-09  
 UF sofc  
 \*BT1 high-temperature fuel cells  
 \*BT1 solid electrolyte fuel cells

### SOLID SCINTILLATION DETECTORS

\*BT1 scintillation counters  
 NT1 bgo detectors  
 NT1 nai detectors  
 NT1 plastic scintillation detectors  
 RT glass scintillators  
 RT inorganic phosphors  
 RT organic crystal phosphors

### SOLID SOLUTIONS

\*BT1 solutions

RT alloys  
 RT austenite  
 RT ferrite  
 RT phase diagrams  
 RT solids  
 RT superlattices

### SOLID STATE LASERS

1997-06-05  
 BT1 lasers  
 NT1 diode-pumped solid state lasers  
 NT1 neodymium lasers  
 NT1 ruby lasers  
 NT1 semiconductor lasers  
 RT us national ignition facility

### SOLID STATE PHYSICS

INIS: 1976-08-17; ETDE: 1976-02-19  
*Use only for articles of a very broad nature such as an annual research program, etc.*  
 BT1 physics  
 RT crystal structure

### SOLID-STATE PLASMA

1999-10-07  
 UF electron-hole plasma  
 BT1 plasma  
 NT1 electron-hole droplets  
 RT electron gas  
 RT plasmons

### SOLID WASTES

UF refuse  
 SF emissions (industrial)  
 BT1 wastes  
 NT1 mineral wastes  
 NT2 culm  
 NT1 scrap  
 NT2 scrap metals  
 NT1 spoil banks  
 NT1 tailings  
 NT2 mill tailings  
 NT2 oil sand tailings  
 NT1 waste pellets  
 NT1 wood wastes  
 RT ashes  
 RT biological wastes  
 RT calcined wastes  
 RT combustion products  
 RT dredge spoil  
 RT emissions tax  
 RT fly ash  
 RT ground disposal  
 RT industrial wastes  
 RT landgard pyrolysis system  
 RT municipal wastes  
 RT organic wastes  
 RT purox pyrolysis process  
 RT refuse derived fuels  
 RT spent shales  
 RT waste disposal  
 RT waste disposal acts  
 RT waste forms

### SOLIDIFICATION

UF fixation (waste treatment)  
 SF immobilization (wastes)  
 BT1 phase transformations  
 RT castings  
 RT ceramic melters  
 RT crystallization  
 RT freezing  
 RT frost  
 RT harvest process  
 RT melting  
 RT segregation  
 RT solids  
 RT vitrification  
 RT waste processing



**SOLIDS**

RT crystals  
 RT dispersions  
 RT glass  
 RT microstructure  
 RT nanostructures  
 RT phase diagrams  
 RT solid clusters  
 RT solid solutions  
 RT solidification  
 RT structure factors

**SOLIDS FLOW**

INIS: 2000-05-19; ETDE: 1985-04-09

BT1 fluid flow  
 RT hydraulics  
 RT materials handling

**SOLINOX PROCESS**

INIS: 2000-04-12; ETDE: 1985-12-13

\*BT1 desulfurization  
 RT denitrification

**SOLITONS**

*Stable, shape preserving and localized solutions of nonlinear classical field equations of recent interest as possible models of extended elementary particles.*

UF skyrmions  
 BT1 quasi particles  
 RT baeklund transformation  
 RT extended particle model  
 RT field equations  
 RT instantons  
 RT phonons  
 RT shock waves

**SOLS**

\*BT1 colloids  
 NT1 aerosols  
 NT2 radioactive aerosols  
 NT2 smokes  
 NT3 tobacco smokes  
 RT solutions

**SOLUBILITY**

UF miscibility  
 RT crystallization  
 RT dissolution  
 RT leaching  
 RT mixing  
 RT precipitation  
 RT saturation  
 RT solutes  
 RT solutions  
 RT solvent properties  
 RT solvents  
 RT supersaturation

**SOLUBLE POISONS**

\*BT1 nuclear poisons  
 RT fluid poison control  
 RT scram

**SOLUTES**

INIS: 1986-05-23; ETDE: 1982-03-10

UF dissolved materials  
 UF dissolved solids  
 NT1 dissolved gases  
 RT additives  
 RT dissolution  
 RT solubility  
 RT solutions  
 RT solvents

**SOLUTION HEAT**

UF heat of solution  
 \*BT1 enthalpy  
 RT mixing heat

**SOLUTION MINING**

INIS: 1976-07-16; ETDE: 1976-02-19

\*BT1 in-situ processing  
 BT1 mining  
 RT leaching  
 RT solvent extraction  
 RT uranium ores

**SOLUTIONS**

1999-10-11

*For chemical solutions only. For mathematics see the word block of MATHEMATICAL*

*SOLUTIONS.*

\*BT1 homogeneous mixtures  
 NT1 aqueous solutions  
 NT1 fuel solutions  
 NT1 hypertonic solutions  
 NT1 isotonic solutions  
 NT1 leachates  
 NT1 process solutions  
 NT1 solid solutions  
 RT brines  
 RT buffers  
 RT dilution  
 RT dissolution  
 RT organic solvents  
 RT saturation  
 RT sols  
 RT solubility  
 RT solutes  
 RT solvents  
 RT supersaturation

**solvation**

USE solvation

**SOLVATED ELECTRONS**

UF hydrated electrons  
 \*BT1 electrons  
 RT solvation

**SOLVATION**

*The chemical union of a dissolved substance and its dissolving liquid.*

UF solvation  
 NT1 hydration  
 RT nonaqueous solvents  
 RT solvated electrons

**SOLVENT EXTRACTION**

1996-07-18

UF cosorb process  
 UF extraction (solvent)  
 UF liquid-liquid extraction  
 SF arco process  
 \*BT1 extraction  
 NT1 phenosolvan process  
 NT1 supercritical gas extraction  
 RT amex process  
 RT civex process  
 RT cmpo  
 RT counter current  
 RT crown ethers  
 RT csrex process  
 RT dapex process  
 RT diamex process  
 RT dissolution  
 RT distribution functions  
 RT entrainment  
 RT eurex process  
 RT extraction apparatuses  
 RT hydrometallurgy  
 RT leachates  
 RT leaching  
 RT partition  
 RT podbielniak contactors  
 RT purex process  
 RT redox process  
 RT reprocessing  
 RT salting-out agents

RT solution mining  
 RT solvent properties  
 RT talspeak process  
 RT thorex process  
 RT tramex process  
 RT truex process  
 RT zirflex process

**SOLVENT PROPERTIES**

1994-06-27

RT dissolution  
 RT solubility  
 RT solvent extraction  
 RT solvents

**SOLVENT-REFINED COAL**

2000-04-12

BT1 fuels  
 RT coal  
 RT coal preparation plants  
 RT lc-fining  
 RT src process

**solvent-refined coal process**

2000-04-12

USE src process

**solvent-refining coal plants**

INIS: 2000-03-29; ETDE: 1979-05-31

SEE coal preparation plants  
 SEE src process

**SOLVENTS**

UF diluents  
 UF polar solvents  
 NT1 mixed solvents  
 NT1 nonaqueous solvents  
 NT2 organic solvents  
 NT3 cellosolves  
 NT3 solvesso  
 NT3 turpentine  
 RT dissolution  
 RT solubility  
 RT solutes  
 RT solutions  
 RT solvent properties

**SOLVESSO**

\*BT1 organic solvents  
 RT aromatics

**SOLVOLYSIS**

\*BT1 decomposition  
 NT1 acetolysis  
 NT1 ammonolysis  
 NT1 hydrolysis  
 NT2 acid hydrolysis  
 NT2 alkaline hydrolysis  
 NT2 autohydrolysis  
 NT2 enzymatic hydrolysis  
 NT2 saccharification  
 NT2 saponification

**SOMALIA**

BT1 africa  
 BT1 arab countries  
 BT1 developing countries

**SOMATIC CELLS**

BT1 animal cells  
 NT1 cho cells  
 NT1 connective tissue cells  
 NT2 bone cells  
 NT2 bone marrow cells  
 NT2 fat cells  
 NT2 fibroblasts  
 NT2 lymphocytes  
 NT2 macrophages  
 NT2 mast cells  
 NT2 plasma cells  
 NT1 crypt cells  
 NT1 liver cells

**NT1** nerve cells  
**NT1** phagocytes  
**NT2** macrophages  
**NT1** respiratory tract cells  
**NT1** spleen cells  
**NT1** stem cells  
**NT1** thymocytes  
**NT1** thymus cells  
**NT1** thyroid cells

**SOMATIC MUTATIONS**

**BT1** mutations

**SOMATICALLY SIGNIFICANT DOSE**

*INIS: 1976-01-28; ETDE: 1990-11-26*

**\*BT1** radiation doses  
**RT** radiation hazards

**SOMATOSTATIN**

*INIS: 1980-05-14; ETDE: 1979-02-05*

**UF** growth hormone-release inhibiting factor  
**UF** somatotropin release inhibiting factor  
**RT** hormones  
**RT** polypeptides  
**RT** sth

**somatotropic hormone**

**USE** sth

**somatotropin release inhibiting factor**

*INIS: 1993-11-09; ETDE: 1979-02-05*

**USE** somatostatin

**SOMMERFELD CONSTANT**

**UF** sommerfeld fine structure constant  
**BT1** dimensionless numbers  
**RT** fine structure

**sommerfeld fine structure constant**

**USE** sommerfeld constant

**sommerfeld integrals**

*INIS: 2000-04-12; ETDE: 1975-10-01*

*In addition to the descriptor below, use ANTENNAS if relevant.*

*(Prior to May 1996 this was a valid ETDE descriptor.)*

**USE** integrals

**SOMMERFELD-WATSON THEORY**

**UF** watson method  
**RT** quantum mechanics

**SONAR**

*INIS: 1994-07-01; ETDE: 1976-11-01*

*(Until June 1994 this concept was indexed to RANGE FINDERS.)*

**UF** sound navigation and ranging  
**\*BT1** range finders  
**RT** electrical equipment  
**RT** electronic equipment  
**RT** frequency range  
**RT** sound waves

**sondes**

*INIS: 2000-04-12; ETDE: 1978-05-03*

**USE** probes

**SONIC LOGGING**

*INIS: 1984-04-04; ETDE: 1976-06-07*

**BT1** well logging  
**RT** acoustic measurements  
**RT** acoustic monitoring  
**RT** seismic sources  
**RT** sonic probes

**sonic measurements**

*INIS: 1991-09-18; ETDE: 1976-07-07*

**USE** acoustic measurements

**SONIC PROBES**

*INIS: 1975-08-22; ETDE: 1975-10-01*

**BT1** probes  
**RT** acoustic measurements  
**RT** ion acoustic waves  
**RT** plasma diagnostics  
**RT** sonic logging

**SONIC SPARK CHAMBERS**

**UF** acoustic spark chambers  
**\*BT1** filmless spark chambers

**SOOT**

*INIS: 2000-04-05; ETDE: 1976-07-07*

**BT1** combustion products  
**RT** air pollution  
**RT** carbon compounds  
**RT** coal  
**RT** smokes

**SORA REACTOR**

**\*BT1** fast reactors  
**\*BT1** pulsed reactors  
**\*BT1** research reactors  
**RT** neutron sources

**SORBENT INJECTION PROCESSES**

*INIS: 1992-07-20; ETDE: 1990-03-30*

**\*BT1** desulfurization  
**RT** adsorbents

**SORBENT RECOVERY SYSTEMS**

*INIS: 1992-03-09; ETDE: 1978-01-23*

*Recovery using sorptive materials.*

**RT** adsorbents  
**RT** oil spills  
**RT** sorption  
**RT** water pollution control

**SORBIC ACID**

**\*BT1** monocarboxylic acids

**SORBITOL**

**\*BT1** diuretics  
**\*BT1** monosaccharides  
**RT** sorbose

**SORBOSE**

**\*BT1** hexoses  
**\*BT1** ketones  
**RT** sorbitol

**SOREQ NUCLEAR RESEARCH CENTER**

*INIS: 1979-12-20; ETDE: 1979-11-23*

**\*BT1** israel atomic energy commission

**SORGHUM**

**\*BT1** cereals

**SORPTION**

*INIS: 1992-03-10; ETDE: 1976-08-25*

**NT1** absorption  
**NT2** energy absorption  
**NT2** intestinal absorption  
**NT2** k absorption  
**NT2** polar-cap absorption  
**NT2** resonance absorption  
**NT2** root absorption  
**NT2** self-absorption  
**NT2** skin absorption  
**NT1** adsorption  
**NT1** chemisorption  
**NT1** desorption  
**RT** sorbent recovery systems  
**RT** sorptive properties

**SORPTIVE PROPERTIES**

*1992-02-23*

**UF** adsorptive properties  
**BT1** surface properties  
**RT** absorbents  
**RT** adsorbents

**RT** adsorption  
**RT** bioadsorbents  
**RT** sorption

**SORTING**

*INIS: 1986-04-04; ETDE: 1975-10-01*

**NT1** radiometric sorting  
**RT** classification  
**RT** concentrators  
**RT** filters  
**RT** jigs  
**RT** particle size classifiers  
**RT** screening  
**RT** screens  
**RT** separation processes

**soulaines plant**

*INIS: 1993-04-19; ETDE: 2002-06-13*

**USE** aube plant

**SOULTZ-SOUS-FORETS GEOTHERMAL FIELD**

*2005-02-21*

*Bas-Rhin, France.*

**BT1** geothermal fields  
**RT** france

**sound**

**USE** sound waves

**sound navigation and ranging**

*INIS: 1994-07-01; ETDE: 1976-11-02*

**USE** sonar

**SOUND WAVES**

*1997-04-30*

*See also FOURTH SOUND, SECOND SOUND, and THIRD SOUND.*

**UF** first sound

**UF** sound

**NT1** ultrasonic waves  
**RT** acoustic agglomerators  
**RT** acoustic detection  
**RT** acoustic esr  
**RT** acoustic measurements  
**RT** acoustic monitoring  
**RT** acoustic nmr  
**RT** acoustic radar  
**RT** acoustics  
**RT** fifth sound  
**RT** fourth sound  
**RT** frequency mixing  
**RT** harmonic generation  
**RT** ion acoustic waves  
**RT** magnetoacoustics  
**RT** second sound  
**RT** seismic sources  
**RT** signal distortion  
**RT** sonar  
**RT** speech  
**RT** speech synthesizers  
**RT** third sound  
**RT** zero sound

**soundproofing**

*1995-07-03*

**USE** acoustic insulation

**sour crude oil**

*INIS: 1993-03-23; ETDE: 1993-04-16*

**USE** sour crudes

**SOUR CRUDES**

*INIS: 1993-03-23; ETDE: 1976-03-11*

*Crude oils containing an abnormally large amount of sulfur and sulfur compounds.*

**UF** high-sulfur crude oil

**UF** sour crude oil

**\*BT1** petroleum  
**RT** hydrogen sulfides  
**RT** sulfur

**SOURCE ROCKS**

INIS: 2000-04-12; ETDE: 1981-11-10  
 RT reservoir rock  
 RT rocks

**SOURCE TERMS**

INIS: 1985-11-19; ETDE: 1985-12-13  
*Activities and amounts of the different radionuclides per unit time leaving a nuclear installation or facility and entering the environment, as during a severe reactor accident.*  
 RT containment  
 RT fission product release  
 RT fission products  
 RT meltdown  
 RT radiation doses  
 RT reactor accidents  
 RT risk assessment

**SOUTH AFRICA**

BT1 africa  
 BT1 developed countries  
 NT1 transvaal  
 RT namibia

**south africa nac cyclotron**

INIS: 1983-06-01; ETDE: 2002-06-13  
 USE nac cyclotron

**SOUTH AFRICAN ORGANIZATIONS**

INIS: 1987-05-26; ETDE: 1976-04-19  
 BT1 national organizations

**SOUTH ALLIGATOR DEPOSIT**

INIS: 1978-07-03; ETDE: 1978-08-07  
 \*BT1 uranium deposits  
 RT northern territory  
 RT uranium ores

**SOUTH AMERICA**

BT1 latin america  
 NT1 argentina  
 NT2 mendoza  
 NT1 bolivia  
 NT2 chacaltaya  
 NT1 brazil  
 NT1 chile  
 NT1 colombia  
 NT1 ecuador  
 NT1 french guiana  
 NT1 guyana  
 NT1 paraguay  
 NT1 peru  
 NT1 surinam  
 NT1 uruguay  
 NT1 venezuela

**south american fruit fly**

INIS: 1999-02-19; ETDE: 1999-11-18  
 USE anastrepha

**SOUTH ATLANTIC BIGHT**

INIS: 2000-04-12; ETDE: 1980-08-12  
*The portion of the Atlantic Ocean overlying the continental shelf off North Carolina, South Carolina, Georgia, and Florida.*  
 \*BT1 atlantic ocean  
 RT coastal waters  
 RT continental shelf  
 RT mid-atlantic bight  
 RT onslow bay

**SOUTH AUSTRALIA**

\*BT1 australia  
 RT olympic dam mine  
 RT roxby downs deposit

**SOUTH CAROLINA**

1997-06-19  
 \*BT1 usa  
 RT santee river

RT savannah river  
 RT savannah river plant  
 RT us east coast

**south china sea**

INIS: 1992-01-16; ETDE: 1981-03-16  
 USE china sea

**SOUTH DAKOTA**

\*BT1 usa  
 NT1 table mountain area  
 RT missouri river  
 RT williston basin

**south haven michigan reactor**

ETDE: 2001-01-23  
 USE palisades-1 reactor

**south korea**

USE republic of korea

**SOUTH TEXAS PROJECT-1 REACTOR**

STP Nuclear Operating Co., Bay City, Texas, USA.  
 \*BT1 pwr type reactors

**SOUTH TEXAS PROJECT-2 REACTOR**

STP Nuclear Operating Co., Bay City, Texas, USA.  
 \*BT1 pwr type reactors

**SOUTH UKRAINIAN-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20  
 Ukraine.  
 \*BT1 wwr type reactors

**SOUTH UKRAINIAN-2 REACTOR**

INIS: 1989-02-24; ETDE: 1988-12-02  
 Ukraine.  
 \*BT1 wwr type reactors

**SOUTH UKRAINIAN-3 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13  
 Ukraine.  
 \*BT1 wwr type reactors

**south west africa**

1994-08-22  
 (Until August 1994 this was a valid descriptor.)  
 USE namibia

**south yemen**

INIS: 2000-04-12; ETDE: 1981-05-18  
 USE yemen

**southeast region**

INIS: 2000-04-12; ETDE: 1978-07-06  
 (Prior to June 1982 this was a valid ETDE descriptor.)  
 USE usa

**SOUTHEASTERN POWER ADMINISTRATION**

INIS: 2000-04-12; ETDE: 1980-03-29  
 UF sepa  
 \*BT1 us doe  
 RT electric power

**SOUTHERN HEMISPHERE**

INIS: 1999-04-28; ETDE: 1980-09-22  
*Both for the surface and the celestial hemisphere.*  
 \*BT1 earth planet  
 RT northern hemisphere

**southern negros geothermal field**

INIS: 1992-06-04; ETDE: 1984-02-23  
 USE palimpinon geothermal field

**SOUTHERN OSCILLATION**

INIS: 1992-06-12; ETDE: 1986-02-04  
*A periodic barometric pressure fluctuation between the Indian Ocean region and the southeast Pacific Ocean.*  
 UF el nino  
 RT atmospheric circulation  
 RT atmospheric pressure  
 RT indian ocean  
 RT pacific ocean

**SOUTHERN RHODESIA**

UF rhodesia (southern)  
 \*BT1 zimbabwe

**southern yemen**

INIS: 2000-04-12; ETDE: 1980-08-12  
 USE yemen

**southwest africa**

INIS: 1984-07-20; ETDE: 2002-06-13  
 USE namibia

**southwest experimental fast oxide reactor**

1993-11-09  
 USE sefor reactor

**southwest region**

INIS: 2000-04-12; ETDE: 1978-07-06  
 (Prior to June 1982 this was a valid ETDE descriptor.)  
 USE usa

**SOUTHWESTERN POWER ADMINISTRATION**

INIS: 1992-10-01; ETDE: 1980-03-29  
 UF swpa  
 \*BT1 us doe  
 RT electric power

**soviet breeder reactor-1**

USE sbr-1 reactor

**soviet breeder reactor-2**

USE sbr-2 reactor

**soviet breeder reactor-5**

USE sbr-5 reactor

**soviet research reactor irt**

USE irt reactor

**soviet research reactor irt-c**

2000-04-12  
 USE irt-c reactor

**soviet research reactor irt-f**

2000-04-12  
 USE irt-f reactor

**soviet union**

2000-04-12  
*All the constituents of the former USSR are listed below; use one or more as required. (Prior to September 1997 USSR was used for this concept.)*  
 SEE armenia  
 SEE azerbaijan  
 SEE belarus  
 SEE estonia  
 SEE kazakhstan  
 SEE kyrgyzstan  
 SEE latvia  
 SEE lithuania  
 SEE moldova  
 SEE republic of georgia  
 SEE russian federation  
 SEE tajikistan  
 SEE turkmenistan  
 SEE ukraine

SEE uzbekistan

## SOXAL PROCESS

INIS: 2000-04-12; ETDE: 1986-06-12

*A regenerative wet scrubbing process which is based on the use of a high pH sodium solution to remove the sulfur oxides from flue gas.*

\*BT1 desulfurization  
RT waste processing

## soy oil

USE soybean oil

## SOYBEAN OIL

UF chinese bean oil  
UF soja bean oil  
UF soy oil  
\*BT1 triglycerides  
\*BT1 vegetable oils

## soybean plant

USE glycine hispida

## SOYBEANS

BT1 seeds  
\*BT1 vegetables  
RT glycine hispida

## SP GROUPS

UF symplectic groups  
\*BT1 lie groups

## SP LOGGING

INIS: 2000-06-27; ETDE: 1976-06-07  
UF self-potential logging  
UF spontaneous potential logging  
\*BT1 electric logging

## SPACE

NT1 annular space  
NT2 toroidal configuration  
NT1 extracellular space  
NT1 intergalactic space  
NT1 interplanetary space  
NT1 interstellar space  
NT1 mathematical space  
NT2 anti de sitter space  
NT2 banach space  
NT3 hilbert space  
NT2 de sitter space  
NT2 hausdorff space  
NT2 minkowski space  
NT2 phase space  
NT2 riemann space  
NT3 euclidean space  
RT space flight  
RT space vehicles

## SPACE CHARGE

UF beam perveance  
RT charge distribution  
RT electric charges  
RT electron tubes

## space-charge layer

INIS: 2000-04-12; ETDE: 1980-03-04  
USE depletion layer

## space cooling

2006-03-31  
USE air conditioning

## SPACE DEPENDENCE

1999-10-11  
*The dependence of any quantity or variable on space coordinates.*

UF configuration dependence  
UF geometric sensitivity  
UF position dependence  
UF spatial dependence  
SF azimuth  
RT angular distribution

RT coordinates  
RT mathematical space  
RT spatial distribution

## SPACE FLIGHT

(From October 1980 till March 1997 SPACE TRANSPORT was a valid ETDE descriptor.)

RT apollo project  
RT cosmic radiation  
RT mars space probes  
RT ogo satellites  
RT orbiting solar observatories  
RT radiation protection  
RT reentry  
RT rockets  
RT satellites  
RT solar flares  
RT space  
RT space shuttles  
RT space vehicles  
RT venera space probes  
RT weightlessness

## SPACE GROUPS

UF groups (space)  
BT1 symmetry groups  
RT crystal lattices  
RT group theory

## SPACE HEATERS

INIS: 1999-03-05; ETDE: 1977-06-21  
SF heat emission systems  
\*BT1 appliances  
BT1 heaters  
NT1 convectors  
RT space heating

## SPACE HEATING

1976-02-11  
BT1 heating  
NT1 auxiliary heating  
NT1 baseboard heating  
NT1 geothermal space heating  
NT1 solar space heating  
RT air source heat pumps  
RT airtightness  
RT annual cycle energy system  
RT central heating plants  
RT degree days  
RT district heating  
RT electric heating  
RT fireplaces  
RT ground source heat pumps  
RT heat production  
RT heating systems  
RT oil furnaces  
RT radiant cable heating  
RT space heaters  
RT water source heat pumps  
RT wood burning furnaces

## SPACE HVAC SYSTEMS

INIS: 1999-05-26; ETDE: 1980-08-25  
*Heating, ventilation, and air conditioning systems.*  
SF thermally active structural components  
BT1 energy systems  
RT air conditioners  
RT energy management systems  
RT gas heat pumps  
RT heating systems  
RT ventilation systems

## space lattices

USE crystal lattices

## SPACE POWER REACTORS

UF space power unit reactor  
UF spur reactor  
\*BT1 mobile reactors

\*BT1 power reactors  
NT1 snap reactors  
NT2 snap 10 reactor  
NT3 s10fs-1 reactor  
NT3 s10fs-3 reactor  
NT3 s10fs-4 reactor  
NT2 snap 2 reactor  
NT3 s2ds reactor  
NT2 snap 50 reactor  
NT2 snap 8 reactor  
NT3 s8dr reactor  
NT3 s8er reactor  
NT1 space propulsion reactors  
NT2 kiwi reactors  
NT3 kiwi-tnt reactor  
NT2 nerva reactor  
NT2 nrx-a1 reactor  
NT2 nrx-a2 reactor  
NT2 nrx-a3 reactor  
NT2 nrx-a4-est reactor  
NT2 nrx-a5 reactor  
NT2 nrx-a6 reactor  
NT2 nrx-a7 reactor  
NT2 pewee-1 reactor  
NT2 pewee-2 reactor  
NT2 pewee-3 reactor  
NT2 pewee-4 reactor  
NT2 phoebus-1a reactor  
NT2 phoebus-1b reactor  
NT2 phoebus-2a reactor  
NT2 rover reactors  
NT2 twmr reactor  
NT2 xe-2 reactor

## space power unit reactor

2000-04-12  
USE space power reactors

## SPACE PROPULSION REACTORS

\*BT1 propulsion reactors  
\*BT1 space power reactors  
NT1 kiwi reactors  
NT2 kiwi-tnt reactor  
NT1 nerva reactor  
NT1 nrx-a1 reactor  
NT1 nrx-a2 reactor  
NT1 nrx-a3 reactor  
NT1 nrx-a4-est reactor  
NT1 nrx-a5 reactor  
NT1 nrx-a6 reactor  
NT1 nrx-a7 reactor  
NT1 pewee-1 reactor  
NT1 pewee-2 reactor  
NT1 pewee-3 reactor  
NT1 pewee-4 reactor  
NT1 phoebus-1a reactor  
NT1 phoebus-1b reactor  
NT1 phoebus-2a reactor  
NT1 rover reactors  
NT1 twmr reactor  
NT1 xe-2 reactor  
RT fissioning plasma  
RT hydrogen cooled reactors

## space reflection

USE p invariance

## SPACE SHUTTLES

INIS: 1983-02-04; ETDE: 1979-09-26  
BT1 aircraft  
\*BT1 space vehicles  
RT space flight

## SPACE-TIME

UF spacetime  
NT1 light cone  
RT anti de sitter space  
RT compactification  
RT cosmological constant  
RT cosmology

RT de sitter space  
 RT galilei transformations  
 RT inflationary universe  
 RT lorentz transformations  
 RT mach principle  
 RT mathematical space  
 RT metrics  
 RT relativity theory  
 RT twistor theory

**SPACE-TIME MODEL**

INIS: 1982-12-07; ETDE: 1977-03-04

*Particle-interaction model in which particles at the instant of creation are immature or bare and their maturity rate is enhanced in the presence of other hadronic matter, as in a nucleus.*

\*BT1 cluster emission model  
 RT hadron reactions

**space transport**

INIS: 2000-04-12; ETDE: 1980-10-27

*Use SPACE FLIGHT and/or SPACE VEHICLES and/or the descriptor below, as appropriate.*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE transport

**space vehicle components**

INIS: 2000-04-12; ETDE: 1976-08-24

*Use descriptor for material or component if needed.*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE space vehicles

**SPACE VEHICLES**

1995-09-08

(From January 1975 till March 1997 NOSE CONES was a valid ETDE descriptor; from August 1976 till March 1997 SPACE VEHICLE COMPONENTS was a valid ETDE descriptor; from October 1980 till March 1997 SPACE TRANSPORT was a valid ETDE descriptor.)

UF space vehicle components

SF nose cones

BT1 vehicles  
 NT1 luna space probes  
 NT1 mariner space probes  
 NT1 mars space probes  
 NT1 mir orbital station  
 NT1 pioneer space probes  
 NT1 reentry vehicles  
 NT1 salyut orbital stations  
 NT1 space shuttles  
 NT1 vega space probes  
 NT1 venera space probes  
 NT1 viking space probes  
 NT1 voyager space probes  
 RT aerospace industry  
 RT electronic guidance  
 RT international space station  
 RT ionosondes  
 RT launching  
 RT navigational instruments  
 RT reentry  
 RT rockets  
 RT satellites  
 RT space  
 RT space flight  
 RT spacecraft power supplies  
 RT thrusters

**SPACE WEAPONS**

INIS: 2000-04-12; ETDE: 1984-11-29

UF anti-missile systems

UF anti-satellite systems

RT ballistic missile defense

RT directed-energy weapons  
 RT national defense

**SPACECRAFT POWER SUPPLIES**

\*BT1 power supplies  
 RT electric power  
 RT radioisotope batteries  
 RT space vehicles

**SPACERS**

RT fins  
 RT fuel element clusters  
 RT reactor components

**spacetime**

INIS: 1984-07-20; ETDE: 2002-06-13

USE space-time

**spadns**

1996-10-23

*Sulfophenyl-naphthalene-sulfonic acid.*

(Until October 1996 this was a valid descriptor.)

USE sulfones

USE sulfonic acids

**SPAIN**

1995-04-03

BT1 developing countries

\*BT1 western europe

NT1 canary islands

RT bay of biscay

RT oecd

**SPALLATION**

*High-energy nuclear reaction resulting in the release of numerous nucleons, alpha particles or heavier nuclei as reaction products; not to be used for fission.*

BT1 nuclear reactions

RT fission

RT nuclear fireball model

RT nuclear fragmentation

RT nuclear fragments

RT rudstam formula

RT spallation fragments

**SPALLATION FRAGMENTS**

INIS: 1978-11-24; ETDE: 1978-12-20

UF fragments (spallation)

UF spallation products

BT1 nuclear fragments

RT spallation

**spallation products**

INIS: 1978-11-24; ETDE: 1978-12-20

USE spallation fragments

**spanish jen-1 research reactor**

USE jen-1 reactor

**spanish jen-2 research reactor**

USE jen-2 reactor

**SPANISH ORGANIZATIONS**

INIS: 1977-04-07; ETDE: 1977-06-03

BT1 national organizations

**SPARGERS**

2000-07-11

*Liquid distribution devices consisting of lengths of piping or tubing with holes at spaced intervals along the length.*

UF perforated pipe distributors

RT sprays

**SPARK CHAMBERS**

\*BT1 gas track detectors

NT1 filmless spark chambers

NT2 sonic spark chambers

NT2 wire spark chambers

NT1 projection spark chambers

NT1 streamer spark chambers

NT1 wide gap spark chambers

RT digitizers

RT spark counters

**SPARK COUNTERS**

UF rosenblum counters

\*BT1 radiation detectors

RT corona counters

RT spark chambers

**SPARK DRILLS**

INIS: 2000-04-12; ETDE: 1976-07-07

\*BT1 drills

RT drill bits

RT electric sparks

RT rock drilling

RT well drilling

**SPARK GAPS**

RT breakdown

RT electric discharges

RT electric sparks

RT paschen law

**SPARK IGNITION ENGINES**

1997-06-19

\*BT1 internal combustion engines

NT1 wankel engines

RT automobiles

RT carburetors

RT combustion

RT combustion chambers

RT fuel injection systems

RT gasoline

**SPARK MACHINING**

BT1 machining

**SPARK MASS SPECTROMETERS**

\*BT1 mass spectrometers

**sparks (electric)**

USE electric sparks

**SPARTICLES**

INIS: 1987-12-21; ETDE: 1988-03-16

UF supersymmetric particles

\*BT1 postulated particles

**spatial dependence**

INIS: 2000-04-12; ETDE: 1979-08-07

(Prior to August 1981, this was a valid ETDE descriptor.)

USE space dependence

**SPATIAL DISTRIBUTION**

*Use for the distribution of any property or quantity in space, e.g. density or particle velocity.*

UF depth distribution

UF radial distribution

BT1 distribution

NT1 mass distribution

RT angular distribution

RT charge distribution

RT plasma radial profiles

RT space dependence

RT temperature distribution

**SPATIAL DOSE DISTRIBUTIONS**

UF absorbed fraction (internal irradiation)

UF distribution factor (rad doses)

UF effective energy (internal irradiation)

BT1 radiation dose distributions

NT1 depth dose distributions

RT buildup

RT integral doses

RT irradiation procedures

RT isodose curves

RT local irradiation

RT microdosimetry

RT nonuniform irradiation  
RT partial body irradiation

**SPATIAL RESOLUTION**

BT1 resolution

**spe**

ETDE: 2002-06-13

USE solar protons

**speakeasy**

INIS: 2000-04-12; ETDE: 1980-02-11

(Prior to January 1995, this was a valid ETDE descriptor.)

USE programming languages

**SPEAR**

Stanford Positron-Electron Asymmetric Ring.

BT1 storage rings

**special power excursion reactor-1**

1993-11-09

USE spert-1 reactor

**special power excursion reactor-2**

1993-11-09

USE spert-2 reactor

**special power excursion reactor-3**

1993-11-09

USE spert-3 reactor

**special power excursion reactor-4**

1993-11-09

USE spert-4 reactor

**SPECIAL PRODUCTION REACTORS**

For producing fissile materials such as uranium 233, californium 252, thorium 232, etc. See also PLUTONIUM PRODUCTION REACTORS.

\*BT1 production reactors

NT1 c reactor

NT1 k reactor

NT1 l reactor

NT1 p reactor

NT1 r reactor

**SPECIAL RELATIVITY THEORY**

BT1 relativity theory

RT dirac equation

RT galilei transformations

RT lorentz invariance

RT lorentz transformations

RT massless particles

RT negative mass

RT rest mass

**speciation (biological)**

INIS: 1987-08-27; ETDE: 2002-06-13

USE biological evolution

**speciation (chemical)**

INIS: 1987-08-27; ETDE: 2002-06-13

USE chemical state

**SPECIES DIVERSITY**

INIS: 1991-12-11; ETDE: 1978-01-23

UF biodiversity

RT animals

RT baseline ecology

RT biological extinction

RT ecological balance

RT ecological succession

RT ecology

RT ecosystems

RT plants

RT populations

**specific gravity**

USE density

**SPECIFIC HEAT**

UF heat capacity

\*BT1 thermodynamic properties

NT1 electronic specific heat

NT1 magnetic specific heat

NT1 nuclear specific heat

RT born-von karman theory

RT debye temperature

RT grueneisen constant

**SPECIFIC SURFACE AREA**

INIS: 1982-09-21; ETDE: 1991-03-08

Surface area per unit weight or volume of a particulate solid.

UF surface area (specific)

BT1 physical properties

RT powders

**specific volume**

USE density

**specific weight**

USE density

**SPECIFICATIONS**

UF design (technical specifications)

UF technical specifications

RT camac system

RT design

RT engineering drawings

RT inspection

RT modifications

RT patents

RT quality control

RT reliability

RT standardization

RT standards

**SPECIFICITY**

INIS: 1976-01-28; ETDE: 1976-08-24

The qualitative attribute of accurately distinguishing among different materials, properties, radiations, etc. as compared with the quantitative aspect of the threshold for detecting a given material, property, etc.; for which see SENSITIVITY.

RT accuracy

RT sensitivity

**specimen holders**

INIS: 1976-03-25; ETDE: 1975-11-26

USE sample holders

**spect**

INIS: 1995-07-20; ETDE: 2002-06-13

USE single photon emission computed tomography

**SPECTRA**

NT1 absorption spectra

NT1 alpha spectra

NT1 beta spectra

NT1 deuteron spectra

NT1 electron spectra

NT1 emission spectra

NT1 energy spectra

NT1 fission spectra

NT1 gamma spectra

NT1 infrared spectra

NT1 mass spectra

NT1 microwave spectra

NT1 missing-mass spectra

NT1 neutron spectra

NT2 watt fission spectrum

NT1 nmr spectra

NT1 proton spectra

NT1 raman spectra

NT1 ultraviolet spectra

NT2 extreme ultraviolet spectra

NT1 visible spectra

NT1 x-ray spectra

RT balmer lines

RT eddington theory

RT fine structure

RT fraunhofer lines

RT hyperfine structure

RT line broadening

RT line narrowing

RT line widths

RT lyman lines

RT multispectral scanners

RT particle multiplets

RT paschen lines

RT raman effect

RT rydberg-klein-rees method

RT schumann-runge bands

RT spectral response

RT spectral shift

**spectra (absorption)**

2000-04-12

USE absorption spectra

**spectra (fission)**

2000-04-12

USE fission spectra

**spectra (neutron)**

2000-04-12

USE neutron spectra

**SPECTRA UNFOLDING**

\*BT1 data processing

RT neutron spectra

**spectral broadening**

USE line broadening

**SPECTRAL DENSITY**

UF density (spectral)

\*BT1 spectral functions

RT energy spectra

**spectral flame radiance**

INIS: 2000-04-12; ETDE: 1982-05-12

USE emissivity

**SPECTRAL FUNCTIONS**

BT1 functions

NT1 spectral density

RT dispersion relations

**SPECTRAL HARDENING**

UF hardening (spectral)

RT neutron spectra

**spectral narrowing**

INIS: 1976-07-16; ETDE: 1977-06-30

USE line narrowing

**SPECTRAL REFLECTANCE**

INIS: 1994-07-01; ETDE: 1978-10-25

The radiant reflectance for a specified wavelength of the incident radiant flux.

(Until June 1994 this concept was indexed to OPTICAL PROPERTIES.)

UF reflectance (spectral)

\*BT1 optical properties

RT absorptivity

RT reflectivity

RT spectrally selective surfaces

**SPECTRAL RESPONSE**

INIS: 1995-04-10; ETDE: 1977-06-24

RT efficiency

RT energy dependence

RT energy spectra

RT performance

RT sensitivity

RT spectra

**SPECTRAL SHIFT**

UF isotope shift

UF isotopic shift

**NT1** lamb shift  
*RT* chemical shift  
*RT* doppler effect  
*RT* einstein effect  
*RT* knight effect  
*RT* knight shift  
*RT* spectra  
*RT* stark effect  
*RT* zeeman effect

**SPECTRAL SHIFT CONTROL**

*Type of moderator control in which the neutron spectrum is intentionally changed.*

\*BT1 configuration control

**SPECTRALLY SELECTIVE SURFACES**

*INIS: 2000-04-12; ETDE: 1975-11-11*

\*BT1 solar equipment  
 BT1 surfaces  
*RT* black coatings  
*RT* solar absorbers  
*RT* spectral reflectance

**spectrochemistry**

SEE absorption spectroscopy  
 SEE emission spectroscopy

**SPECTROMETERS**

BT1 measuring instruments  
**NT1** alpha spectrometers  
**NT1** beta spectrometers  
**NT1** cosmic ray spectrometers  
**NT1** electron spectrometers  
**NT1** electrostatic spectrometers  
**NT1** epr spectrometers  
**NT1** fission fragment spectrometers  
**NT1** fourier transform spectrometers  
**NT1** gamma spectrometers  
 NT2 compton spectrometers  
 NT2 moessbauer spectrometers  
 NT2 pair spectrometers  
**NT1** heavy ion spectrometers  
**NT1** infrared spectrometers  
 NT2 photoacoustic spectrometers  
**NT1** magnetic spectrometers  
 NT2 flat magnetic spectrometers  
 NT2 magnetic lens spectrometers  
**NT1** mass spectrometers  
 NT2 dynamic mass spectrometers  
 NT3 energy balance mass spectrometers  
 NT3 time-of-flight mass spectrometers  
 NT2 spark mass spectrometers  
 NT2 static mass spectrometers  
**NT1** missing-mass spectrometers  
**NT1** multiparticle spectrometers  
**NT1** neutral particle analyzers  
**NT1** neutron spectrometers  
 NT2 bonner sphere spectrometers  
**NT1** nmr spectrometers  
**NT1** optical spectrometers  
**NT1** proton spectrometers  
**NT1** time-of-flight spectrometers  
 NT2 time-of-flight mass spectrometers  
**NT1** ultraviolet spectrometers  
**NT1** x-ray spectrometers  
*RT* coincidence spectrometry  
*RT* diffraction gratings  
*RT* interferometers  
*RT* monochromators  
*RT* pulse analyzers  
*RT* radiation detection  
*RT* radiation detectors  
*RT* spectrophotometers  
*RT* spectroscopy

**spectrometry**

*INIS: 1975-10-23; ETDE: 2002-06-13*

USE spectroscopy

**spectrophones**

*INIS: 1978-02-23; ETDE: 2002-06-13*  
 USE photoacoustic spectrometers

**SPECTROPHOTOMETERS**

BT1 measuring instruments  
*RT* spectrometers  
*RT* spectrophotometry

**SPECTROPHOTOMETRY**

*RT* flame photometry  
*RT* photometry  
*RT* spectrophotometers  
*RT* spectroscopy

**SPECTROSCOPIC CURVE OF GROWTH**

*INIS: 1975-08-27; ETDE: 1976-08-24*  
*UF* curve of growth (spectroscopic)

\*BT1 optical depth curve  
*RT* absorption spectra  
*RT* cosmic gases  
*RT* line broadening  
*RT* optical properties  
*RT* oscillator strengths

**SPECTROSCOPIC FACTORS**

BT1 dimensionless numbers  
*RT* nuclear reactions  
*RT* scattering

**SPECTROSCOPY**

(From March 1983 till March 1997 PHOTO-INDUCED TRANSIENT SPECTROSCOPY was a valid ETDE descriptor.)

*UF* photo-induced transient spectroscopy  
*UF* pits  
*UF* spectrometry  
**NT1** absorption spectroscopy  
**NT1** alpha spectroscopy  
**NT1** baryon spectroscopy  
**NT1** beta spectroscopy  
**NT1** deep level transient spectroscopy  
**NT1** electron spectroscopy  
 NT2 auger electron spectroscopy  
 NT2 energy-loss spectroscopy  
 NT2 photoelectron spectroscopy  
 NT3 x-ray photoelectron spectroscopy  
**NT1** emission spectroscopy  
 NT2 fluorescence spectroscopy  
**NT1** gamma spectroscopy  
**NT1** in-beam spectroscopy  
**NT1** ion-neutralization spectroscopy  
**NT1** ion spectroscopy  
 NT2 ion cyclotron resonance spectroscopy  
**NT1** laser spectroscopy  
 NT2 raman spectroscopy  
**NT1** mass spectroscopy  
 NT2 icp mass spectroscopy  
 NT2 resonance ionization mass spectroscopy  
**NT1** meson spectroscopy  
**NT1** neutron spectroscopy  
**NT1** photoacoustic spectroscopy  
**NT1** rutherford backscattering spectroscopy  
**NT1** x-ray spectroscopy  
*RT* flame photometry  
*RT* matrix isolation  
*RT* multispectral photography  
*RT* multispectral scanners  
*RT* photometry  
*RT* post-irradiation examination  
*RT* quantum electronics  
*RT* radiation detection  
*RT* radioassay  
*RT* spectrometers  
*RT* spectrophotometry

**SPEECH**

2000-04-12  
*RT* communications  
*RT* sound waves  
*RT* speech synthesizers

**SPEECH SYNTHESIZERS**

*INIS: 2000-04-12; ETDE: 1981-07-18*  
 \*BT1 electronic equipment  
*RT* acoustics  
*RT* computer codes  
*RT* electronic circuits  
*RT* simulation  
*RT* sound waves  
*RT* speech

**speed**

*INIS: 1984-04-04; ETDE: 2002-06-13*  
 USE velocity

**speed indicators**

*INIS: 1978-11-24; ETDE: 1975-08-19*  
 USE velocimeters

**SPEED LIMIT**

*INIS: 2000-04-12; ETDE: 1977-07-23*  
*RT* laws

**SPEED REGULATORS**

\*BT1 control equipment

**SPENCER-FANO THEORY**

*RT* neutron slowing-down theory

**spending**

*INIS: 1992-04-09; ETDE: 1981-07-06*  
 USE expenditures

**SPENT FUEL CASKS**

1994-07-14  
 (Until July 1994 this concept was indexed by CASKS.)  
 \*BT1 casks  
*RT* spent fuel elements

**SPENT FUEL ELEMENTS**

*UF* irradiated fuel elements  
 \*BT1 fuel elements  
*RT* burnup  
*RT* fuel integrity  
*RT* reprocessing  
*RT* spent fuel casks  
*RT* spent fuels  
*RT* wackersdorf reprocessing plant  
*RT* wak

**SPENT FUEL STORAGE**

1996-04-16  
*UF* fuel cooling installations  
*UF* storage (spent fuel)  
 BT1 storage  
**NT1** away-from-reactor storage  
**NT1** monitored retrievable storage  
*RT* after-heat  
*RT* dry storage  
*RT* fuel cooling time  
*RT* fuel cycle centers  
*RT* fuel integrity  
*RT* fuel racks  
*RT* fuel storage pools  
*RT* nuclear waste policy acts  
*RT* storage facilities  
*RT* us mrs project  
*RT* wet storage

**SPENT FUELS**

*UF* irradiated fuels  
 \*BT1 nuclear fuels  
*RT* fission products  
*RT* fuel cooling time  
*RT* fuel integrity  
*RT* fuel reprocessing plants

RT monitored retrievable storage  
 RT nuclear waste policy acts  
 RT radioactive wastes  
 RT reactors  
 RT spent fuel elements  
 RT storage facilities  
 RT us mrs project  
 RT wackersdorf reprocessing plant  
 RT wak

**SPENT LIQUORS**

INIS: 1993-02-15; ETDE: 1978-08-07  
 Liquid effluent from the digestion of wood during pulping.  
 UF black liquors  
 UF sulfite waste liquor  
 \*BT1 industrial wastes  
 \*BT1 liquid wastes  
 RT waste disposal  
 RT waste product utilization

**SPENT SEED**

INIS: 2000-04-12; ETDE: 1979-04-11  
 Restricted to MHD seeds.  
 RT coal-fired mhd generators  
 RT plasma seeding  
 RT seed recovery

**SPENT SHALES**

1992-04-13  
 UF retorted shales  
 RT oil shales  
 RT portland cement  
 RT shales  
 RT solid wastes

**sperm**

USE spermatozoa

**spermatids**

USE spermatozoa

**SPERMATOCYTES**

BT1 germ cells

**SPERMATOGENESIS**

BT1 gametogenesis  
 RT reproduction  
 RT spermatogonia  
 RT spermatozoa  
 RT stem cells  
 RT testes

**SPERMATOGONIA**

1975-11-07  
 BT1 germ cells  
 RT spermatogenesis  
 RT spermatozoa

**SPERMATOZOA**

UF sperm  
 UF spermatids  
 \*BT1 gametes  
 RT spermatogenesis  
 RT spermatogonia

**SPERMIDINE**

\*BT1 amines

**SPERMINE**

UF gerontine  
 UF musculamine  
 UF neuridine  
 \*BT1 amines

**SPERT-1 REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1964.  
 UF special power excursion reactor-1  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors

\*BT1 thermal reactors  
 \*BT1 water moderated reactors

**SPERT-2 REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1965.  
 UF special power excursion reactor-2  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**SPERT-3 REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1968.  
 UF special power excursion reactor-3  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**SPERT-4 REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1970.  
 UF special power excursion reactor-4  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

**sphalerite**

2000-04-12  
 Zinc sulfide, ZnS, a cubic crystal.  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE sulfide minerals

**sphene**

INIS: 1984-04-04; ETDE: 1981-11-24  
 (This was a valid ETDE descriptor prior to January 1984.)  
 USE titanite

**spher**

INIS: 2000-04-12; ETDE: 1981-01-27  
 USE shell pellet heat exchanger retorting

**SPHERATOR**

\*BT1 internal ring devices

**SPHERES**

RT geometry  
 RT shape

**spheres (fuel)**

2000-04-12  
 (From January 1975 to February 1997 FUEL SPHERES was a valid ETDE descriptor.)  
 USE fuel elements

**spherical aberrations**

INIS: 2000-04-12; ETDE: 1979-07-24  
 USE geometrical aberrations

**SPHERICAL CONFIGURATION**

BT1 configuration

**SPHERICAL HARMONICS**

UF cn method  
 BT1 functions  
 RT laplace equation  
 RT mathematics  
 RT yvon method

**SPHERICAL HARMONICS METHOD**

\*BT1 approximations  
 NT1 pl-approximation

NT1 p2-approximation  
 NT1 p3-approximation  
 RT legendre polynomials  
 RT marshak boundary conditions  
 RT neutron transport theory

**SPHERICAL MODEL**

\*BT1 nuclear models

**SPHEROIDS**

INIS: 1976-02-11; ETDE: 1975-10-01  
 RT geometry  
 RT shape

**SPHEROMAK DEVICES**

INIS: 1981-07-06; ETDE: 1979-10-23  
 Tokamak with aspect ratio approximately equal to one.  
 \*BT1 tokamak devices  
 NT1 cdx-u spheromak  
 NT1 ctx spheromak  
 NT1 globus-m spheromak  
 NT1 mast tokamak  
 NT1 nstx device  
 NT1 sspx device  
 NT1 sunist spheromak  
 NT1 ts-3 device

**SPHINGOMYELINS**

\*BT1 phospholipids

**SPICES**

1996-04-26  
 UF ginger  
 RT capsicum  
 RT flavor  
 RT food  
 RT peppers

**spicules**

USE solar prominences

**SPIDERS**

\*BT1 arachnids

**spikes (thermal)**

USE thermal spikes

**SPILLWAYS**

INIS: 1992-10-05; ETDE: 1994-08-18  
 (Prior to August 1994 SPILLWAY was a valid ETDE descriptor.)  
 RT dams  
 RT hydroelectric power plants

**SPIN**

BT1 angular momentum  
 BT1 particle properties  
 RT chirality  
 RT heisenberg model  
 RT helicity  
 RT high spin states  
 RT joos-weinberg equation  
 RT morrison rule  
 RT orbital angular momentum  
 RT pauli spin operators  
 RT quantum numbers  
 RT schmidt lines  
 RT schmidt model  
 RT sherman tables  
 RT spin exchange  
 RT spin flip  
 RT spin-lattice relaxation  
 RT spin orientation  
 RT spin-spin relaxation  
 RT spinors  
 RT two-component neutrino theory  
 RT weil equation

**SPIN ECHO**

RT nuclear magnetic resonance



**SPIN EXCHANGE**

*Not for chemical reactions.*

- RT exchange interactions  
RT spin

**SPIN FLIP**

- RT inelastic scattering  
RT nuclear reaction kinetics  
RT spin

**SPIN GLASS STATE**

INIS: 1978-07-03; ETDE: 1977-08-24

*A magnetic state in alloys of ferromagnetic material and nonmagnetic material in which the magnetic atoms are frozen into random orientation.*

- RT ferromagnetic materials  
RT magnetism

**SPIN-LATTICE RELAXATION**

- BT1 relaxation  
RT nuclear magnetic resonance  
RT spin

**spin-off**

2000-04-12

- USE technology transfer

**SPIN-ON COATING**

INIS: 1999-08-19; ETDE: 1979-12-10

- \*BT1 surface coating

**SPIN-ON COATINGS**

INIS: 2000-04-12; ETDE: 1979-12-10

- BT1 coatings

**spin-orbit interaction**

- USE l-s coupling

**SPIN ORIENTATION**

*For the process and condition in quantum physics only; see also POLARIZATION.*

- BT1 orientation  
RT muon spin relaxation  
RT nuclear alignment  
RT nuclear magnetism  
RT particle properties  
RT polarization-asymmetry ratio  
RT polarized beams  
RT polarized targets  
RT spin  
RT stern-gerlach experiment

**spin-spin interaction**

- USE j-j coupling

**SPIN-SPIN RELAXATION**

- BT1 relaxation  
RT nuclear magnetic resonance  
RT spin

**SPIN WAVES**

- RT magnons

**SPINACH**

- \*BT1 magnoliopsida  
\*BT1 vegetables

**SPINAL CORD**

- \*BT1 central nervous system  
RT ganglions  
RT myelitis  
RT reflexes  
RT vertebrae

**spine**

- USE vertebrae

**SPINELS**

- \*BT1 oxide minerals  
RT aluminium oxides  
RT magnesium oxides  
RT magnetite

**SPINOR FIELDS**

INIS: 1978-02-23; ETDE: 1978-05-01

- RT quantum field theory

**spinor symmetry**

1984-12-04

- USE boson-fermion symmetry

**SPINORS**

- RT spin  
RT vectors

**SPIPERONE**

INIS: 1994-07-20; ETDE: 1987-04-24

- \*BT1 autonomic nervous system agents  
RT dopamine

**SPIRAL CONFIGURATION**

- BT1 configuration

**spiral orbit spectrometers**

- USE flat magnetic spectrometers

**SPIRAL READER DIGITIZERS**

- \*BT1 digitizers

**SPIROCHAETES**

- \*BT1 bacteria  
RT syphilis

**spitzer self-collision time**

ETDE: 2002-06-13

- USE spitzer theory

**spitzer self-collision time theory**

2000-04-12

- USE spitzer theory

**SPITZER THEORY**

- UF spitzer self-collision time  
UF spitzer self-collision time theory  
UF spitzer value  
\*BT1 charged-particle transport theory  
RT plasma

**spitzer value**

- USE spitzer theory

**SPLAT COOLING**

- BT1 cooling  
RT quench hardening

**SPLEEN**

- \*BT1 organs  
RT abdomen  
RT blood circulation  
RT blood formation  
RT immune system diseases  
RT lymphatic system  
RT macrophages  
RT peritoneum  
RT reticuloendothelial system  
RT spleen cells  
RT spleen colony formation  
RT splenectomy  
RT splenomegaly

**SPLEEN CELLS**

- \*BT1 somatic cells  
RT spleen

**SPLEEN COLONY FORMATION**

- BT1 colony formation  
RT blood formation  
RT chimeras  
RT colony forming units  
RT radiation chimeras  
RT spleen

**SPLENECTOMY**

- \*BT1 surgery  
RT lymphatic system  
RT spleen

**SPLENOMEGALY**

- BT1 pathological changes  
BT1 symptoms  
RT hemic diseases  
RT leukemia  
RT spleen

**SPLICING**

INIS: 1995-06-09; ETDE: 1994-02-25

*The process by which introns are removed from gene transcripts to form mature messenger RNA molecules.*

- BT1 rna processing  
RT exons  
RT gene regulation  
RT introns  
RT nucleoproteins  
RT rna

**SPLINE FUNCTIONS**

INIS: 1978-09-28; ETDE: 1978-10-19

- BT1 functions  
RT interpolation  
RT mathematics  
RT polynomials  
RT series expansion

**split dose irradiation**

- USE fractionated irradiation

**SPLIT TABLE REACTOR**

INEEL, Idaho Falls, Idaho, USA.

UF str reactor (split table)

- \*BT1 zero power reactors

**SPOIL BANKS**

INIS: 1992-09-01; ETDE: 1976-03-22

*Banks of disturbed earth, mine wastes, tailings.*

- \*BT1 solid wastes  
RT acid mine drainage  
RT dredge spoil  
RT land reclamation  
RT mineral wastes

**SPONDYLITIS**

UF ankylosing spondylitis

- BT1 rheumatic diseases  
\*BT1 skeletal diseases  
RT vertebrae

**SPONTANEOUS COMBUSTION**

INIS: 2000-07-11; ETDE: 1975-08-19

- \*BT1 combustion  
RT autoignition  
RT explosions  
RT fire hazards  
RT fire prevention  
RT fires

**spontaneous emission (cooperative)**

INIS: 1993-11-09; ETDE: 2002-06-13

- USE superradiance

**SPONTANEOUS FISSION**

- \*BT1 fission  
\*BT1 nuclear decay  
RT fission isomers  
RT oklo phenomenon  
RT spontaneous fission radioisotopes

**SPONTANEOUS FISSION RADIOISOTOPES**

INIS: 1986-06-09; ETDE: 1991-07-25

- \*BT1 radioisotopes  
NT1 americium 237  
NT1 americium 238  
NT1 americium 239  
NT1 americium 240  
NT1 americium 241  
NT1 americium 242  
NT1 americium 243

NT1 americium 244  
 NT1 americium 245  
 NT1 americium 246  
 NT1 berkelium 242  
 NT1 berkelium 243  
 NT1 berkelium 244  
 NT1 berkelium 245  
 NT1 berkelium 249  
 NT1 bohrium 261  
 NT1 bohrium 262  
 NT1 californium 237  
 NT1 californium 246  
 NT1 californium 248  
 NT1 californium 249  
 NT1 californium 250  
 NT1 californium 252  
 NT1 californium 254  
 NT1 californium 256  
 NT1 curium 240  
 NT1 curium 241  
 NT1 curium 242  
 NT1 curium 243  
 NT1 curium 244  
 NT1 curium 245  
 NT1 curium 246  
 NT1 curium 248  
 NT1 curium 250  
 NT1 darmstadtium 272  
 NT1 darmstadtium 279  
 NT1 darmstadtium 281  
 NT1 dubnium 255  
 NT1 dubnium 256  
 NT1 dubnium 257  
 NT1 dubnium 258  
 NT1 dubnium 259  
 NT1 dubnium 260  
 NT1 dubnium 261  
 NT1 dubnium 262  
 NT1 dubnium 263  
 NT1 dubnium 267  
 NT1 dubnium 268  
 NT1 einsteinium 253  
 NT1 einsteinium 254  
 NT1 einsteinium 255  
 NT1 einsteinium 257  
 NT1 element 112 283  
 NT1 element 114 286  
 NT1 fermium 242  
 NT1 fermium 244  
 NT1 fermium 246  
 NT1 fermium 248  
 NT1 fermium 250  
 NT1 fermium 252  
 NT1 fermium 254  
 NT1 fermium 255  
 NT1 fermium 256  
 NT1 fermium 257  
 NT1 fermium 258  
 NT1 fermium 259  
 NT1 fermium 260  
 NT1 hassium 264  
 NT1 hassium 265  
 NT1 meitnerium 266  
 NT1 mendelevium 245  
 NT1 mendelevium 246  
 NT1 mendelevium 259  
 NT1 neptunium 237  
 NT1 nobelium 250  
 NT1 nobelium 252  
 NT1 nobelium 254  
 NT1 nobelium 256  
 NT1 nobelium 258  
 NT1 plutonium 235  
 NT1 plutonium 236  
 NT1 plutonium 237  
 NT1 plutonium 238  
 NT1 plutonium 239  
 NT1 plutonium 240  
 NT1 plutonium 241

NT1 plutonium 242  
 NT1 plutonium 243  
 NT1 plutonium 244  
 NT1 rutherfordium 253  
 NT1 rutherfordium 254  
 NT1 rutherfordium 255  
 NT1 rutherfordium 256  
 NT1 rutherfordium 257  
 NT1 rutherfordium 258  
 NT1 rutherfordium 259  
 NT1 rutherfordium 260  
 NT1 rutherfordium 261  
 NT1 rutherfordium 262  
 NT1 rutherfordium 263  
 NT1 rutherfordium 267  
 NT1 seaborgium 258  
 NT1 seaborgium 259  
 NT1 seaborgium 260  
 NT1 seaborgium 261  
 NT1 seaborgium 262  
 NT1 seaborgium 263  
 NT1 seaborgium 265  
 NT1 seaborgium 266  
 NT1 seaborgium 268  
 NT1 seaborgium 270  
 NT1 seaborgium 271  
 NT1 seaborgium 272  
 NT1 seaborgium 273  
 NT1 thorium 230  
 NT1 thorium 232  
 NT1 uranium 232  
 NT1 uranium 233  
 NT1 uranium 234  
 NT1 uranium 235  
 NT1 uranium 236  
 NT1 uranium 238  
 RT spontaneous fission

## SPONTANEOUS MUTATIONS

INIS: 1978-02-23; ETDE: 1978-05-01

UF natural mutations  
 BT1 mutations

## spontaneous potential logging

INIS: 2000-04-12; ETDE: 1976-06-07

USE sp logging

## SPORADIC E

\*BT1 e region

## SPORES

NT1 bacterial spores  
 NT1 conidia  
 NT1 microspores  
 RT fungi  
 RT reproduction

## SPOROZOA

INIS: 1993-07-19; ETDE: 1981-06-17

BT1 parasites  
 \*BT1 protozoa  
 NT1 babesidae  
 NT1 plasmodium

## SPORT FACILITIES

2004-09-14

UF facilities (sport)  
 RT buildings  
 RT recreational areas

## SPOT MARKET

INIS: 1992-01-29; ETDE: 1979-12-10

UF rotterdam spot market  
 BT1 market  
 RT economics  
 RT prices  
 RT supply and demand

## spot welding

INIS: 1976-03-17; ETDE: 2002-06-13  
 USE welding

## spot welds

INIS: 1976-03-17; ETDE: 2002-06-13  
 USE welded joints

## SPR-2 REACTOR

Sandia Laboratories, Albuquerque, New Mexico, USA.

UF sandia pulsed reactor-ii  
 UF spr-ii reactor  
 \*BT1 pulsed reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

## SPR-3 REACTOR

Sandia Laboratories, Albuquerque, New Mexico, USA.

UF sandia pulsed reactor-iii  
 UF spr-iii reactor  
 \*BT1 pulsed reactors  
 \*BT1 research reactors

## SPR-4 REACTOR

INIS: 1984-06-21; ETDE: 1982-08-11  
 Sandia Laboratories, Albuquerque, New Mexico, USA.

UF sandia pulse reactor-4  
 UF sandia pulsed reactor-iv  
 UF spr-iv reactor  
 \*BT1 pulsed reactors  
 \*BT1 research reactors

## spr-ii reactor

USE spr-2 reactor

## spr-iii reactor

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE spr-3 reactor

## spr-iv reactor

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE spr-4 reactor

## SPRAY COATING

UF metal spraying  
 \*BT1 surface coating  
 NT1 flame spraying  
 NT1 plasma arc spraying  
 RT sprayed coatings

## SPRAY COOLING

INIS: 1976-07-30; ETDE: 1976-11-01

BT1 cooling  
 RT droplets  
 RT fog cooling  
 RT sprays

## SPRAY DRYING

BT1 drying  
 RT dry scrubbers  
 RT evaporation

## spray ponds

1992-06-05

USE cooling ponds  
 USE sprays

## spray systems (containment)

USE containment spray systems

## SPRAYED COATINGS

BT1 coatings  
 RT spray coating

## SPRAYS

UF fog (sprays)  
 UF spray ponds  
 RT atomization  
 RT dispersions  
 RT droplets

RT scrubbers  
 RT scrubbing  
 RT spargers  
 RT spray cooling  
 RT washout

**SPREAD F**

\*BT1 f region

**SPRING-8 STORAGE RING**

INIS: 1990-09-24; ETDE: 1990-10-09

BT1 storage rings  
 \*BT1 synchrotron radiation sources

**SPRINGS**

*Mechanical springs only.*

BT1 machine parts  
 RT mechanical vibrations  
 RT torsion

**springs (water)**

INIS: 2000-04-12; ETDE: 1980-06-06

USE water springs

**SPROUT INHIBITION**

BT1 inhibition  
 RT garlic  
 RT onions  
 RT potatoes  
 RT storage life

**SPROUTING**

RT plant growth  
 RT plants  
 RT vernalization

**SPRUCES**

INIS: 1991-12-13; ETDE: 1983-03-23

\*BT1 conifers  
 \*BT1 trees

**spur reactor**

2000-04-12

*Space Power Unit Reactor, 300 kw.*

USE space power reactors

**SPURIONS**

\*BT1 postulated particles  
 \*BT1 strange particles  
 RT selection rules

**SPUTTER-ION PUMPS**

\*BT1 vacuum pumps  
 RT getters  
 RT penning discharges  
 RT philips gages  
 RT sputtering

**SPUTTERING**

NT1 cathode sputtering  
 NT1 neutron sputtering  
 RT arc welding  
 RT deposition  
 RT ion beams  
 RT sputter-ion pumps  
 RT vacuum coating  
 RT vapor deposited coatings

**SQUALANE**

\*BT1 alkanes

**SQUALENE**

\*BT1 polyenes  
 \*BT1 terpenes

**SQUARE CONFIGURATION**

\*BT1 rectangular configuration

**square-wave generators**

USE function generators

**SQUARE-WELL POTENTIAL**

\*BT1 nuclear potential

**SQUARYLIUM DYES**

INIS: 2000-04-12; ETDE: 1979-05-03

BT1 dyes  
 RT aromatics  
 RT heterocyclic compounds  
 RT organic nitrogen compounds

**SQUID DEVICES**

*Superconducting Quantum Interference Devices.*

UF *superconducting quantum interference devices*

\*BT1 fluxmeters  
 \*BT1 microwave equipment  
 BT1 superconducting devices  
 RT interferometers  
 RT rf systems  
 RT superconductors

**SQUIRRELS**

1996-11-13

\*BT1 rodents

**sr-0f reactor**

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor.)

USE zero power reactors

**SR-1 REACTOR**

\*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**SR-305 REACTOR**

*Savannah River Plant, Aiken, South Carolina, USA. Shut down in 1981.*

UF *savannah river test pile-305*

\*BT1 graphite moderated reactors  
 \*BT1 production reactors  
 \*BT1 thermal reactors

**SR-3P REACTOR**

ETDE: 1975-09-11

\*BT1 thermal reactors  
 \*BT1 training reactors  
 \*BT1 water cooled reactors

**SR-OA REACTOR**

*Skoda National Corporations, Plzen, Czech Republic.*

UF *skoda (plzen) reactor*

\*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
 \*BT1 zero power reactors

**sr-ob reactor**

USE subcritical assemblies

**SRC-II PROCESS**

INIS: 2000-04-12; ETDE: 1977-08-24

*Modified SRC process with higher field of liquid and gaseous products which are recovered by vacuum distillation.*

\*BT1 coal liquefaction  
 RT src process

**SRC PROCESS**

2000-04-04

UF *pittsburg-midway solvent refined coal process*

UF *solvent-refined coal process*

SF *solvent-refining coal plants*

RT *solvent-refined coal*

RT *src-ii process*

**SRE REACTOR**

*Rockwell International, Santa Susana, California, USA.*

UF *sodium reactor experiment*

\*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 power reactors  
 \*BT1 sgr type reactors  
 \*BT1 thermal reactors  
 \*BT1 thorium reactors

**SRI LANKA**

UF *ceylon*

BT1 asia  
 BT1 developing countries  
 BT1 islands  
 RT indian ocean

**sriracha reactor**

INIS: 1985-03-15; ETDE: 1985-04-09

USE ao-phai-1 reactor

**srn**

INIS: 1984-10-23; ETDE: 1984-11-08

*Standard Reference Materials.*

USE calibration standards

**SRR-1 REACTOR**

2004-03-15

*Atomic Energy Commission, Damascus, Syria.*

UF *syrian miniature neutron source reactor*

\*BT1 mnsr type reactors

**SRRC-UTR-100 REACTOR**

*Scottish Universities Research and Reactor Centre, East Kilbride by Glasgow, United Kingdom.*

UF *glasgow utr-100 reactor*

UF *scottish research reactor center utr-100 reactor*

\*BT1 argonaut type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**ssc**

INIS: 1985-01-18; ETDE: 2002-06-13

*Superconducting Super Collider.*

USE superconducting super collider

**SSDL**

INIS: 1980-07-24; ETDE: 1980-08-12

*Secondary Standard Dosimetry Laboratories.*

UF *secondary standard dosimetry laboratories*

RT calibration standards  
 RT dosimetry

**SSPX DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03

*Sustained Spheromak Physics Experiment, Lawrence Livermore National Laboratory, USA.*

\*BT1 spheromak devices

**ST LAWRENCE RIVER**

INIS: 1976-07-06; ETDE: 1976-08-25

UF *saint lawrence river*

\*BT1 rivers  
 RT new york  
 RT ontario  
 RT quebec

**st lucie-1 reactor**

INIS: 1990-06-25; ETDE: 2002-06-13

USE lucie-1 reactor

**st lucie-2 reactor**

INIS: 1990-06-25; ETDE: 2002-06-13

USE lucie-2 reactor

**ST PETERSBURG INSTITUTE OF NUCLEAR PHYSICS**

1997-08-08

*Until July 1997 this was known as the Leningrad Institute of Nuclear Physics.*UF *leningrad institute of nuclear physics*\*BT1 *russian organizations***ST TOKAMAK**UF *tokamak model st*\*BT1 *tokamak devices***staat amt atomsicherheit und strahlenschutz**

INIS: 2000-04-12; ETDE: 1985-08-09

USE *bundesamt fuer strahlenschutz***staatliches amt fuer atomsicherheit und strahlenschutz**

INIS: 1995-02-20; ETDE: 2002-06-13

USE *bundesamt fuer strahlenschutz***STABILITY**NT1 *orbit stability*NT1 *phase stability*NT1 *reactor stability*NT1 *slope stability*RT *equilibrium*RT *instability*RT *lyapunov method*RT *stabilization*RT *thixotropy***stability (fission reactor)**

INIS: 1982-11-29; ETDE: 2002-06-13

USE *reactor stability***stability (reactor)**

2000-04-12

USE *reactor stability***STABILIZATION**

1998-10-30

(Until October 1998 this concept was indexed by STABILITY.)

RT *inhibition*RT *stability*RT *var control systems***STABILIZED SUPERCONDUCTORS**BT1 *superconductors***STABLE ISOTOPES**BT1 *isotopes*NT1 *aluminium 27*NT1 *antimony 121*NT1 *antimony 123*NT1 *argon 36*NT1 *argon 38*NT1 *argon 40*NT1 *arsenic 75*NT1 *barium 130*NT1 *barium 132*NT1 *barium 134*NT1 *barium 135*NT1 *barium 136*NT1 *barium 137*NT1 *barium 138*NT1 *beryllium 9*NT1 *bismuth 209*NT1 *boron 10*NT1 *boron 11*NT1 *bromine 79*NT1 *bromine 81*NT1 *cadmium 106*NT1 *cadmium 108*NT1 *cadmium 110*NT1 *cadmium 111*NT1 *cadmium 112*NT1 *cadmium 113*NT1 *cadmium 114*NT1 *cadmium 116*NT1 *calcium 40*NT1 *calcium 42*NT1 *calcium 43*NT1 *calcium 44*NT1 *calcium 46*NT1 *calcium 48*NT1 *carbon 12*NT1 *carbon 13*NT1 *cerium 136*NT1 *cerium 138*NT1 *cerium 140*NT1 *cerium 142*NT1 *cesium 133*NT1 *chlorine 35*NT1 *chlorine 37*NT1 *chromium 50*NT1 *chromium 52*NT1 *chromium 53*NT1 *chromium 54*NT1 *cobalt 59*NT1 *copper 63*NT1 *copper 65*NT1 *deuterium*NT1 *dysprosium 156*NT1 *dysprosium 158*NT1 *dysprosium 160*NT1 *dysprosium 161*NT1 *dysprosium 162*NT1 *dysprosium 163*NT1 *dysprosium 164*NT1 *erbium 162*NT1 *erbium 164*NT1 *erbium 166*NT1 *erbium 167*NT1 *erbium 168*NT1 *erbium 170*NT1 *europium 151*NT1 *europium 153*NT1 *fluorine 19*NT1 *gadolinium 154*NT1 *gadolinium 155*NT1 *gadolinium 156*NT1 *gadolinium 157*NT1 *gadolinium 158*NT1 *gadolinium 160*NT1 *gallium 69*NT1 *gallium 71*NT1 *germanium 70*NT1 *germanium 72*NT1 *germanium 73*NT1 *germanium 74*NT1 *germanium 76*NT1 *gold 197*NT1 *hafnium 176*NT1 *hafnium 177*NT1 *hafnium 178*NT1 *hafnium 179*NT1 *hafnium 180*NT1 *helium 3*NT2 *helium 3 a*NT2 *helium 3 al*NT2 *helium 3 b*NT1 *helium 4*NT2 *helium i*NT2 *helium ii*NT1 *holmium 165*NT1 *hydrogen 1*NT1 *indium 113*NT1 *iodine 127*NT1 *iridium 191*NT1 *iridium 193*NT1 *iron 54*NT1 *iron 56*NT1 *iron 57*NT1 *iron 58*NT1 *krypton 78*NT1 *krypton 80*NT1 *krypton 82*NT1 *krypton 83*NT1 *krypton 84*NT1 *krypton 86*NT1 *lanthanum 139*NT1 *lead 204*NT1 *lead 206*NT1 *lead 207*NT1 *lead 208*NT1 *lithium 6*NT1 *lithium 7*NT1 *lutetium 175*NT1 *magnesium 24*NT1 *magnesium 25*NT1 *magnesium 26*NT1 *manganese 55*NT1 *mercury 196*NT1 *mercury 198*NT1 *mercury 199*NT1 *mercury 200*NT1 *mercury 201*NT1 *mercury 202*NT1 *mercury 204*NT1 *molybdenum 100*NT1 *molybdenum 92*NT1 *molybdenum 94*NT1 *molybdenum 95*NT1 *molybdenum 96*NT1 *molybdenum 97*NT1 *molybdenum 98*NT1 *neodymium 142*NT1 *neodymium 143*NT1 *neodymium 145*NT1 *neodymium 146*NT1 *neodymium 148*NT1 *neodymium 150*NT1 *neon 20*NT1 *neon 21*NT1 *neon 22*NT1 *nickel 58*NT1 *nickel 60*NT1 *nickel 61*NT1 *nickel 62*NT1 *nickel 64*NT1 *niobium 93*NT1 *nitrogen 14*NT1 *nitrogen 15*NT1 *osmium 184*NT1 *osmium 186*NT1 *osmium 187*NT1 *osmium 188*NT1 *osmium 189*NT1 *osmium 190*NT1 *osmium 192*NT1 *oxygen 16*NT1 *oxygen 17*NT1 *oxygen 18*NT1 *palladium 102*NT1 *palladium 104*NT1 *palladium 105*NT1 *palladium 106*NT1 *palladium 108*NT1 *palladium 110*NT1 *phosphorus 31*NT1 *platinum 192*NT1 *platinum 194*NT1 *platinum 195*NT1 *platinum 196*NT1 *platinum 198*NT1 *potassium 39*NT1 *potassium 41*NT1 *praseodymium 141*NT1 *rhenium 185*NT1 *rhenium 187*NT1 *rhodium 103*NT1 *rubidium 85*NT1 *ruthenium 100*NT1 *ruthenium 101*NT1 *ruthenium 102*

NTI ruthenium 104  
 NTI ruthenium 96  
 NTI ruthenium 98  
 NTI ruthenium 99  
 NTI samarium 144  
 NTI samarium 148  
 NTI samarium 149  
 NTI samarium 150  
 NTI samarium 152  
 NTI samarium 154  
 NTI scandium 45  
 NTI selenium 74  
 NTI selenium 76  
 NTI selenium 77  
 NTI selenium 78  
 NTI selenium 80  
 NTI selenium 82  
 NTI silicon 28  
 NTI silicon 29  
 NTI silicon 30  
 NTI silver 107  
 NTI silver 109  
 NTI sodium 23  
 NTI strontium 84  
 NTI strontium 86  
 NTI strontium 87  
 NTI strontium 88  
 NTI sulfur 32  
 NTI sulfur 33  
 NTI sulfur 34  
 NTI sulfur 36  
 NTI tantalum 181  
 NTI tellurium 120  
 NTI tellurium 122  
 NTI tellurium 123  
 NTI tellurium 124  
 NTI tellurium 125  
 NTI tellurium 126  
 NTI tellurium 128  
 NTI tellurium 130  
 NTI terbium 159  
 NTI thallium 203  
 NTI thallium 205  
 NTI thulium 169  
 NTI tin 112  
 NTI tin 114  
 NTI tin 115  
 NTI tin 116  
 NTI tin 117  
 NTI tin 118  
 NTI tin 119  
 NTI tin 120  
 NTI tin 122  
 NTI tin 124  
 NTI titanium 46  
 NTI titanium 47  
 NTI titanium 48  
 NTI titanium 49  
 NTI titanium 50  
 NTI tungsten 180  
 NTI tungsten 182  
 NTI tungsten 183  
 NTI tungsten 184  
 NTI tungsten 186  
 NTI vanadium 51  
 NTI xenon 124  
 NTI xenon 126  
 NTI xenon 128  
 NTI xenon 129  
 NTI xenon 130  
 NTI xenon 131  
 NTI xenon 132  
 NTI xenon 134  
 NTI xenon 136  
 NTI ytterbium 168  
 NTI ytterbium 170  
 NTI ytterbium 171  
 NTI ytterbium 172  
 NTI ytterbium 173

NTI ytterbium 174  
 NTI ytterbium 176  
 NTI yttrium 89  
 NTI zinc 64  
 NTI zinc 66  
 NTI zinc 67  
 NTI zinc 68  
 NTI zinc 70  
 NTI zirconium 90  
 NTI zirconium 91  
 NTI zirconium 92  
 NTI zirconium 94  
 NTI zirconium 96  
 RT carriers  
 RT magic nuclei  
 RT translocation

**STACK DISPOSAL**

\*BT1 waste disposal  
 RT chemical effluents  
 RT electrostatic precipitators  
 RT gaseous wastes  
 RT ground release  
 RT plumes  
 RT pollution control equipment  
 RT radioactive effluents  
 RT radioactive waste disposal  
 RT release limits  
 RT stacks

**STACKING FAULTS**

\*BT1 crystal defects  
 RT dislocations

**STACKS**

RT buildings  
 RT gaseous wastes  
 RT plumes  
 RT radioactive clouds  
 RT smokes  
 RT stack disposal  
 RT ventilation

**STACY REACTOR**

INIS: 2001-09-25; ETDE: 2001-11-30  
 JAERI, Tokai, Ibaraki, Japan.  
 UF static experiment critical facility  
 \*BT1 enriched uranium reactors  
 \*BT1 plutonium reactors  
 \*BT1 zero power reactors  
 RT tracy reactor

**STADE REACTOR**

UF kernkraftwerk stade  
 UF kks reactor  
 \*BT1 pwr type reactors

**STAGED COMBUSTION**

INIS: 1992-07-21; ETDE: 1983-07-07  
 Combustion in which a fuel-rich stage is followed by an air-rich stage to control NOx emissions.

\*BT1 combustion  
 RT air pollution abatement

**STAGNATION**

RT fluid flow

**STAGNATION POINT**

INIS: 1993-05-06; ETDE: 1976-09-14  
 Point in a field of flow about a body where the fluid particles have zero velocity with respect to the body.

RT flames  
 RT fluid mechanics

**STAINLESS STEEL-16-8-2**

INIS: 1993-10-03; ETDE: 1975-10-28  
 \*BT1 steel-cr16ni8mo2

**STAINLESS STEEL-17-4PH**

INIS: 1993-10-03; ETDE: 1978-02-15  
 \*BT1 steel-cr17cu4ni4nb-l

**STAINLESS STEEL-17-7PH**

INIS: 2000-04-12; ETDE: 1979-05-29  
 \*BT1 aluminium alloys  
 \*BT1 chromium-nickel steels

**STAINLESS STEEL-18-10**

INIS: 1993-10-03; ETDE: 1979-05-29  
 \*BT1 steel-cr18ni10

**stainless steel-18-4-1**

INIS: 2000-04-12; ETDE: 1979-11-23  
 (Prior to 1989 this was a valid ETDE descriptor.)

USE stainless steels

**STAINLESS STEEL-18-8**

1993-10-03  
 \*BT1 steel-cr18ni8

**stainless steel-19-9dl**

2000-04-12  
 (Prior to 1989 this was a valid ETDE descriptor.)

USE stainless steels

**STAINLESS STEEL-20-25**

1993-10-03  
 \*BT1 steel-ni25cr20

**STAINLESS STEEL-21-6-9**

INIS: 1993-10-03; ETDE: 1979-12-10  
 UF nitronic 40  
 \*BT1 steel-cr21mn9ni6

**STAINLESS STEEL-301**

1993-10-03  
 \*BT1 steel-cr17ni7

**STAINLESS STEEL-302**

1993-10-03  
 \*BT1 steel-cr18ni9

**STAINLESS STEEL-303**

INIS: 2000-04-12; ETDE: 1985-10-10  
 \*BT1 chromium-nickel steels

**STAINLESS STEEL-304**

1993-10-03  
 \*BT1 steel-cr19ni10

**STAINLESS STEEL-304L**

1993-10-03  
 \*BT1 steel-cr19ni10-l

**STAINLESS STEEL-305**

INIS: 1993-10-03; ETDE: 1976-04-19  
 \*BT1 steel-cr18ni12

**STAINLESS STEEL-308**

1993-10-03  
 \*BT1 steel-cr20ni11

**STAINLESS STEEL-308L**

INIS: 1993-10-03; ETDE: 1978-10-23  
 \*BT1 steel-cr20ni11-l

**STAINLESS STEEL-309**

1993-10-03  
 \*BT1 steel-cr23ni14

**STAINLESS STEEL-309S**

1993-10-03  
 \*BT1 steel-cr23ni14

**STAINLESS STEEL-310**

1993-10-03  
 \*BT1 steel-cr25ni20

**STAINLESS STEEL-316**

1993-10-03  
 \*BT1 steel-cr17ni12mo3

**STAINLESS STEEL-316L**

1993-10-03

\*BT1 steel-cr17ni12mo3-l

**STAINLESS STEEL-317**

INIS: 2000-04-12; ETDE: 1978-09-11

\*BT1 stainless steels

**STAINLESS STEEL-318**

2000-04-12

\*BT1 stainless steels

**STAINLESS STEEL-321**

1993-10-03

\*BT1 steel-cr18ni10ti

**STAINLESS STEEL-329**

2000-04-12

\*BT1 chromium-nickel steels

**stainless steel-330**INIS: 1997-01-28; ETDE: 1977-07-23  
(Until October 1996 this was a valid descriptor.)

USE austenitic steels

USE chromium-nickel steels

**STAINLESS STEEL-347**

1993-10-03

\*BT1 steel-cr18ni11nb

**STAINLESS STEEL-348**

1993-10-03

\*BT1 steel-cr18ni11nbco

**STAINLESS STEEL-403**

1993-10-03

\*BT1 steel-cr12

**STAINLESS STEEL-405**

1993-10-03

\*BT1 steel-cr13al

**STAINLESS STEEL-406**

2000-04-12

\*BT1 chromium steels

**STAINLESS STEEL-410**

1999-10-08

(Until October 1999 this was indexed by STEEL-CR13.)

\*BT1 steel-cr13

**STAINLESS STEEL-422**

INIS: 2000-04-12; ETDE: 1976-11-01

\*BT1 stainless steels

**STAINLESS STEEL-430**

1993-10-03

\*BT1 steel-cr16

**stainless steel-431**INIS: 1997-01-28; ETDE: 1977-04-12  
(Until October 1996 this was a valid descriptor.)

USE steel-cr16ni

**STAINLESS STEEL-440**

1993-10-03

\*BT1 steel-cr17mo

**STAINLESS STEEL-446**

1993-10-03

\*BT1 steel-cr25

**stainless steel-44ln**INIS: 1997-01-28; ETDE: 1981-03-13  
(Until October 1996 this was a valid descriptor.)

USE chromium steels

USE low carbon-high alloy steels

USE molybdenum alloys

USE nickel alloys

**stainless steel-am-350**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE steel-cr17ni4mo3

**STAINLESS STEEL-FV-548**

INIS: 2000-04-12; ETDE: 1979-05-25

\*BT1 stainless steels

**stainless steel-fv548**

1983-11-07

USE steel-cr17ni12monb

**STAINLESS STEEL-JBK-75**

INIS: 2000-04-12; ETDE: 1980-01-24

\*BT1 nickel alloys

\*BT1 stainless steels

\*BT1 titanium alloys

**STAINLESS STEEL M-50**

INIS: 2000-04-12; ETDE: 1979-11-23

\*BT1 molybdenum alloys

\*BT1 stainless steels

**STAINLESS STEEL-PH-15-7-MO**

INIS: 2000-04-12; ETDE: 1979-05-29

\*BT1 chromium-nickel steels

**stainless steel-z2cn18-10**

INIS: 1997-01-28; ETDE: 1979-05-29

(Until October 1996 this was a valid descriptor.)

USE steel-cr18ni10-l

**stainless steel-z2cn18-10n**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z2cnd17-12**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr17ni12mo3-l

**stainless steel-z3cmn18-8-6n**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z3cnd17-12**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr17ni12mo3-l

**stainless steel-z3cnd18-13**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z6cn18-10**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10

**stainless steel-z6cnd17-12**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr17ni12mo3

**stainless steel-z6cnd17-13b**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z6cnd17-13b**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z6cnt18-10**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10ti

**stainless steel-z6cnt18-12b**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z8cnt18-10**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10ti

**STAINLESS STEEL-ZCND17-13**

INIS: 1993-10-03; ETDE: 1979-05-29

\*BT1 manganese alloys

\*BT1 silicon additions

\*BT1 steel-cr17ni12mo3-l

**STAINLESS STEELS**

1996-07-23

(The UF terms below have been valid ETDE descriptors.)

UF croloy 299

UF stainless steel-18-4-1

UF stainless steel-19-9dl

UF steel-000kh25

UF steel-000kh28

UF steel-00kh20n32t

UF steel-03kh13ag13

UF steel-0kh18g8n2t

UF steel-cr17mn15nni

UF tenelon

\*BT1 high alloy steels

NT1 chromium-nickel steels

NT2 alloy-d-9

NT2 carpenter

NT2 chromium-nickel-molybdenum steels

NT3 alloy-m-813

NT3 steel-cr11ni10mo2ti-l

NT3 steel-cr15ni15motib

NT3 steel-cr16ni13monbv

NT3 steel-cr16ni15mo3nb

NT3 steel-cr16ni16monb

NT3 steel-cr16ni8mo2

NT4 stainless steel-16-8-2

NT3 steel-cr16ni9mo2

NT3 steel-cr17ni12mo3

NT4 stainless steel-316

NT3 steel-cr17ni12mo3-l

NT4 stainless steel-316l

NT4 stainless steel-zcnd17-13

NT3 steel-cr17ni12monb

NT3 steel-cr17ni13mo2ti

NT3 steel-cr17ni13mo3ti

NT3 steel-ni26cr15ti2moyalb

NT4 alloy-a-286

NT2 durco

NT2 enduro

NT2 stainless steel-17-7ph

NT2 stainless steel-303

NT2 stainless steel-329

NT2 stainless steel-ph-15-7-mo

NT2 steel-cr17ni13

NT2 steel-cr17ni7

NT3 stainless steel-301

NT2 steel-cr18ni10

NT3 stainless steel-18-10

NT2 steel-cr18ni10-l  
 NT2 steel-cr18ni10ti  
 NT3 stainless steel-321  
 NT2 steel-cr18ni11  
 NT3 steel-x6crni1811  
 NT2 steel-cr18ni11nb  
 NT3 stainless steel-347  
 NT2 steel-cr18ni11nbco  
 NT3 stainless steel-348  
 NT2 steel-cr18ni12  
 NT3 stainless steel-305  
 NT2 steel-cr18ni12ti  
 NT2 steel-cr18ni8  
 NT3 stainless steel-18-8  
 NT2 steel-cr18ni9  
 NT3 stainless steel-302  
 NT2 steel-cr18ni9ti  
 NT2 steel-cr19ni10  
 NT3 stainless steel-304  
 NT2 steel-cr19ni10-l  
 NT3 stainless steel-304l  
 NT2 steel-cr20ni11  
 NT3 stainless steel-308  
 NT2 steel-cr20ni11-l  
 NT3 stainless steel-308l  
 NT2 steel-cr23ni14  
 NT3 stainless steel-309  
 NT3 stainless steel-309s  
 NT2 steel-cr23ni18  
 NT2 steel-cr25ni20  
 NT3 alloy-hk-40  
 NT3 stainless steel-310  
 NT2 steel-ni25cr20  
 NT3 stainless steel-20-25  
 NT2 steel-ni36cr12ti3al-l  
 NT2 timken alloys  
 NT1 chromium steels  
 NT2 chromium-molybdenum steels  
 NT3 chromium-nickel-molybdenum steels  
 NT4 alloy-m-813  
 NT4 steel-cr11ni10mo2ti-l  
 NT4 steel-cr15ni15motib  
 NT4 steel-cr16ni13monbv  
 NT4 steel-cr16ni15mo3nb  
 NT4 steel-cr16ni16monb  
 NT4 steel-cr16ni8mo2  
 NT5 stainless steel-16-8-2  
 NT4 steel-cr16ni9mo2  
 NT4 steel-cr17ni12mo3  
 NT5 stainless steel-316  
 NT4 steel-cr17ni12mo3-l  
 NT5 stainless steel-316l  
 NT5 stainless steel-zcnd17-13  
 NT4 steel-cr17ni12monb  
 NT4 steel-cr17ni13mo2ti  
 NT4 steel-cr17ni13mo3ti  
 NT4 steel-ni26cr15ti2movalb  
 NT5 alloy-a-286  
 NT2 magnet steel-ks  
 NT2 miduale  
 NT2 stainless steel-406  
 NT2 steel-cr10mo2  
 NT2 steel-cr12  
 NT3 stainless steel-403  
 NT2 steel-cr12moniv  
 NT2 steel-cr12mov  
 NT3 alloy-ht-9  
 NT2 steel-cr13  
 NT3 stainless steel-410  
 NT2 steel-cr13al  
 NT3 stainless steel-405  
 NT2 steel-cr16  
 NT3 stainless steel-430  
 NT2 steel-cr16ni  
 NT2 steel-cr17cu4ni4nb-l  
 NT3 stainless steel-17-4ph  
 NT2 steel-cr17mo  
 NT3 stainless steel-440

NT2 steel-cr17ni4mo3  
 NT2 steel-cr18  
 NT2 steel-cr25  
 NT3 stainless steel-446  
 NT2 steel-cr9mo  
 NT2 steel-cr9monbv  
 NT1 low carbon-high alloy steels  
 NT2 steel-cr11ni10mo2ti-l  
 NT2 steel-cr17cu4ni4nb-l  
 NT3 stainless steel-17-4ph  
 NT2 steel-cr17ni12mo3-l  
 NT3 stainless steel-316l  
 NT3 stainless steel-zcnd17-13  
 NT2 steel-cr18ni10-l  
 NT2 steel-cr19ni10-l  
 NT3 stainless steel-304l  
 NT2 steel-cr20ni11-l  
 NT3 stainless steel-308l  
 NT2 steel-ni36cr12ti3al-l  
 NT1 stainless steel-317  
 NT1 stainless steel-318  
 NT1 stainless steel-422  
 NT1 stainless steel-fv-548  
 NT1 stainless steel-jbk-75  
 NT1 stainless steel m-50  
 NT1 steel-cr21mn9ni6  
 NT2 stainless steel-21-6-9  
 NT1 sweetalloy  
 RT corrosion resistant alloys  
 RT heat resisting alloys

#### STAINS

RT banding techniques  
 RT cleaning  
 RT dyes  
 RT histological techniques

#### STAMEN

UF *anthers*  
 UF *stamen hairs*  
 BT1 flowers

#### stamen hairs

USE stamen

#### STAND DENSITY

INIS: 1999-04-22; ETDE: 1988-01-15  
*Number of trees per unit area.*  
 RT biomass  
 RT forests

#### standard electroweak model

INIS: 2000-04-12; ETDE: 1985-03-26  
 USE weinberg-salam gauge model

#### STANDARD INDUSTRIAL CLASSIFICATION

INIS: 2000-04-12; ETDE: 1980-08-12  
 BT1 classification  
 RT standards

#### standard man

USE reference man

#### STANDARD MODEL

INIS: 1995-08-10; ETDE: 1985-03-26  
*For the local gauge theory based on a  $SU(3) \times SU(2) \times U(1)$  symmetry that describes strong, weak and electromagnetic interactions among elementary particles.*  
 \*BT1 grand unified theory  
 RT electromagnetic interactions  
 RT kobayashi-maskawa matrix  
 RT m-theory  
 RT quantum chromodynamics  
 RT quantum electrodynamics  
 RT strong interactions  
 RT weak interactions  
 RT weinberg angle  
 RT weinberg-salam gauge model

#### STANDARD OF LIVING

INIS: 2000-04-05; ETDE: 1978-10-23  
 (From November 1978 till March 1997  
 QUALITY OF LIFE was a valid ETDE  
 descriptor.)  
 UF *living standards*  
 UF *quality of life*  
 SF *way of life*  
 RT economic development  
 RT income

#### standard reference materials

INIS: 1984-10-23; ETDE: 1984-11-08  
 USE calibration standards

#### STANDARDIZATION

1977-02-08  
 RT benchmarks  
 RT calibration standards  
 RT cen  
 RT energy efficiency standards  
 RT quality assurance  
 RT quality control  
 RT safety standards  
 RT specifications  
 RT standards  
 RT standards document

#### STANDARDIZED TERMINOLOGY

UF *controlled terminology*  
 UF *thesauri*  
 UF *vocabulary (controlled)*  
 RT cen  
 RT information retrieval  
 RT information systems  
 RT iso  
 RT machine translations

#### STANDARDS

1991-08-14  
 UF *automobile efficiency standards*  
 NT1 calibration standards  
 NT1 energy efficiency standards  
 NT1 safety standards  
 NT2 annual limit of intake  
 NT2 dose limits  
 NT2 maximum acceptable contamination  
 NT2 maximum inhalation quantity  
 NT2 maximum permissible activity  
 NT2 maximum permissible body burden  
 NT2 maximum permissible concentration  
 NT2 maximum permissible dose  
 NT2 maximum permissible exposure  
 NT2 maximum permissible intake  
 NT2 maximum permissible level  
 RT benchmarks  
 RT certification  
 RT compliance  
 RT international electrotechnical commission  
 RT specifications  
 RT standard industrial classification  
 RT standardization  
 RT standards document

#### standards (calibration)

ETDE: 2002-06-13  
 USE calibration standards

#### standards (safety)

ETDE: 2002-06-13  
 USE safety standards

#### STANDARDS DOCUMENT

INIS: 1987-09-22; ETDE: 1987-10-23  
 Use only in conjunction with literary indicator  
 W for indexing the text of national or  
 international standards.  
 RT cen

RT international electrotechnical commission  
 RT iso  
 RT standardization  
 RT standards

**STANDBY MODE**

2004-05-13

RT electrical equipment  
 RT electronic equipment  
 RT operation  
 RT start-up

**standing crop**

INIS: 2000-04-12; ETDE: 1977-01-28

USE biomass

**STANDING WAVES**

UF waves (standing)  
 RT electromagnetic radiation  
 RT mechanical vibrations  
 RT steady-state conditions  
 RT travelling waves  
 RT wave propagation  
 RT waveguides  
 RT wavelenghts

**STANFORD 1.2-GEV LINAC**

1995-03-02

(Until February 1995 this descriptor was spelled STANFORD 1200-MEV LINAC.)

UF stanford 1200-mev linac

\*BT1 linear accelerators

RT stanford linear accelerator center

**stanford 1200-mev linac**

INIS: 1995-03-02; ETDE: 2002-06-13

(Until February 1995 this was a valid descriptor.)

USE stanford 1.2-gev linac

**STANFORD 20-GEV LINAC**

UF slac 2-mile linac

\*BT1 linear accelerators

RT stanford linear accelerator center

RT stanford linear collider

**stanford large detector**

INIS: 1991-12-17; ETDE: 2002-06-13

USE stanford linear collider detector

**STANFORD LINEAR****ACCELERATOR CENTER**

INIS: 1995-02-17; ETDE: 1976-12-16

UF slac

\*BT1 us doe

\*BT1 us erda

RT california

RT stanford 1.2-gev linac

RT stanford 20-gev linac

RT stanford linear collider

**STANFORD LINEAR COLLIDER**

INIS: 1984-02-22; ETDE: 1983-06-20

UF slc

\*BT1 linear colliders

RT accelerator facilities

RT stanford 20-gev linac

RT stanford linear accelerator center

RT stanford linear collider detector

**STANFORD LINEAR COLLIDER****DETECTOR**

INIS: 1992-01-14; ETDE: 1986-01-14

A detector for the SLAC Linear Collider (SLC) designed to study electron-positron interactions up to 100 GeV.

UF slc detectors

UF stanford large detector

SF sld

\*BT1 radiation detectors

RT cherenkov counters

RT drift chambers  
 RT shower counters  
 RT stanford linear collider

**STANLEIGH MINE**

INIS: 1982-10-28; ETDE: 1982-11-30

\*BT1 uranium mines

RT elliot lake

**STANNATES**

1997-06-17

Specific compounds, except those of significance to energy research and development, should be indexed by coordination of a descriptor of the form (cation) compounds and the above anion descriptor.

BT1 oxygen compounds

BT1 tin compounds

NT1 cadmium stannates

RT tin oxides

**STAPHYLOCOCCUS**

\*BT1 bacteria

**stapp theory**

1996-07-08

(Until June 1996 this was a valid descriptor.)

SEE nucleons

SEE wave propagation

**stapp-ypsilantis-metropolis theory**

1996-07-08

(Prior to August 1996 STAPP THEORY was a valid ETDE descriptor.)

SEE nucleons

SEE wave propagation

**STAR ACCRETION**

UF accretion (stars)

\*BT1 star evolution

RT accretion disks

RT cosmic dust

RT cosmological models

RT eruptive variable stars

RT interstellar grains

RT interstellar space

RT planet-system accretion

RT protostars

RT stars

**STAR BURNING**

INIS: 1978-08-30; ETDE: 1978-10-19

Astrophysical processes only.

UF stellar burning

NT1 carbon burning

NT1 cno cycle

NT1 helium burning

NT1 hydrogen burning

**STAR CLUSTERS**

UF clusters (star)

RT stars

**STAR EVOLUTION**

BT1 evolution

NT1 r process

NT1 s process

NT1 star accretion

RT carbon burning

RT cno cycle

RT cosmology

RT galactic evolution

RT gravitational collapse

RT helium burning

RT herbig-haro objects

RT hertzsprung-russell diagram

RT hydrogen burning

RT origin

RT solar system evolution

RT star models

RT stars

**STAR MODELS**

INIS: 1975-10-23; ETDE: 1975-12-16

Mathematical models of stars.

UF models (star)

UF solar models

BT1 mathematical models

RT carbon burning

RT cno cycle

RT hydrogen burning

RT star evolution

RT stars

**STARCH**

UF amyllum

\*BT1 polysaccharides

BT1 reagents

RT polyacetals

**starch gum**

USE dextrin

**STARFIRE TOKAMAK**

INIS: 1981-07-06; ETDE: 1980-03-29

\*BT1 tokamak devices

**starfish event**

1994-10-14

A test made during PROJECT DOMINIC.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

**STARK EFFECT**

RT electric fields

RT line broadening

RT magneto-optical effects

RT spectral shift

**STAR REACTOR**

Schnell-Thermischen Argonaut Reaktor Karlsruhe.

UF sar-2 reactor

\*BT1 argonaut type reactors

\*BT1 thermal reactors

\*BT1 training reactors

**STARQUAKES**

INIS: 2000-04-12; ETDE: 1976-04-19

RT neutron stars

RT pulsars

**STARS**

NT1 binary stars

NT2 eruptive variable stars

NT3 novae

NT3 supernovae

NT3 t tauri stars

NT1 dwarf stars

NT2 black dwarf stars

NT2 red dwarf stars

NT2 white dwarf stars

NT1 giant stars

NT2 red giant stars

NT2 supergiant stars

NT1 magnetic stars

NT1 main sequence stars

NT2 carbon stars

NT2 sun

NT2 wolf-rayet stars

NT1 neutron stars

NT1 supermassive stars

NT1 symbiotic stars

NT1 variable stars

NT2 eruptive variable stars

NT3 novae

NT3 supernovae

NT3 t tauri stars

NT2 pulsating variable stars

NT3 cepheids

RT astronomy



RT black holes  
 RT carbon burning  
 RT chandrasekhar theory  
 RT nucleosynthesis  
 RT planetary nebulae  
 RT proper motion  
 RT protostars  
 RT quasars  
 RT r process  
 RT s process  
 RT star accretion  
 RT star clusters  
 RT star evolution  
 RT star models  
 RT stellar activity  
 RT stellar atmospheres  
 RT stellar flares  
 RT stellar winds  
 RT white holes

**STARSPOTS**

INIS: 1984-02-22; ETDE: 1984-03-06

*Small regions of stellar surfaces that have a luminosity different from that of their surroundings. For the Sun use SUNSPOTS.*

UF stellar spots  
 BT1 stellar activity  
 NT1 sunspots  
 RT stellar atmospheres  
 RT stellar flares  
 RT variable stars

**START TOKAMAK**

INIS: 1994-03-15; ETDE: 1994-02-25

*Small Tight Aspect Ratio Tokamak at Culham Laboratories, Culham, UK.*

UF small tight aspect ratio tokamak  
 \*BT1 tokamak devices

**START-UP**

INIS: 1986-04-04; ETDE: 1976-12-15

NT1 reactor start-up  
 RT operation  
 RT standby mode

**start-up (fission reactor)**

INIS: 1982-11-29; ETDE: 2002-06-13

USE reactor start-up

**start-up (reactor)**

2000-04-12

USE reactor start-up

**starvation**

USE fasting

**state buildings**

INIS: 2000-04-12; ETDE: 1981-01-09

USE public buildings

**state diagrams**

USE phase diagrams

**state enterprises**

INIS: 2000-04-12; ETDE: 1979-07-24

USE public enterprises

**STATE GOVERNMENT**

INIS: 1980-11-07; ETDE: 1977-08-09

*For the government of a major subdivision of a nation, e.g., the governments of the individual States of the United States of America. For the government of a nation state use NATIONAL GOVERNMENT.*

UF provincial government  
 RT compact commissions  
 RT government policies  
 RT institutional sector  
 RT legislation  
 RT local government  
 RT national government  
 RT public officials

RT regional cooperation  
 RT regulations  
 RT social services  
 RT state officials  
 RT us federal assistance programs

**state liability**

INIS: 1990-12-15; ETDE: 2002-06-13  
 (Prior to December 1990, this was a valid descriptor.)

USE liabilities

**STATE OFFICIALS**

INIS: 2000-04-12; ETDE: 1979-11-23

UF governors  
 \*BT1 public officials  
 RT state government

**states (energy)**

USE energy levels

**static electricity eliminators**

ETDE: 1976-05-19

USE electrostatic charge eliminators

**static experiment critical facility**

INIS: 2001-09-25; ETDE: 2001-11-30

USE stacy reactor

**STATIC LOADS**

INIS: 1981-02-27; ETDE: 1976-08-04

UF loads (static)  
 RT deformation  
 RT dynamic loads  
 RT mechanical tests  
 RT strain rate  
 RT stresses

**STATIC MASS SPECTROMETERS**

\*BT1 mass spectrometers

**static reservoir pressure**

INIS: 1986-07-09; ETDE: 1978-09-11

USE reservoir pressure

**stationary low power plant-1**

USE sl-1 reactor

**stationary medium power plant-1**

1993-11-09

USE sm-1 reactor

**stationary medium power plant-1a**

1993-11-09

USE sm-1a reactor

**STATIONARY POLLUTANT****SOURCES**

INIS: 1992-03-09; ETDE: 1977-03-08

*Use for general articles when sources are not named. See also specific stationary sources, e.g., FOSSIL-FUEL POWERPLANTS.*

BT1 pollution sources  
 RT air pollution  
 RT emission  
 RT mobile pollutant sources  
 RT pollution  
 RT water pollution

**STATISTICAL DATA**

INIS: 1980-09-12; ETDE: 1980-07-09

*Use only in conjunction with literary indicator N for data flagging.*

\*BT1 numerical data

**STATISTICAL MECHANICS**

BT1 mechanics  
 RT anyons  
 RT bbgky equation  
 RT boltzmann equation  
 RT boltzmann statistics  
 RT bose-einstein statistics  
 RT ergodic hypothesis

RT fermi statistics  
 RT kinetic equations  
 RT kinetics  
 RT kubo formula  
 RT liouville theorem  
 RT mean-field theory  
 RT occupation number  
 RT parastatistics  
 RT partition functions

**STATISTICAL MODELS**

UF models (statistical)  
 BT1 mathematical models  
 NT1 feynman gas model  
 NT1 thermodynamic model  
 NT2 hydrodynamic model  
 RT kriging  
 RT particle models  
 RT systems analysis

**STATISTICS**

1996-03-04

*Limited to the indexing of information on the mathematical discipline of statistics or its application in nuclear science; for indexing numerical values of a statistical nature use STATISTICAL DATA.*

UF kurtosis  
 UF skewness  
 BT1 mathematics  
 NT1 game theory  
 NT1 kriging  
 NT1 multivariate analysis  
 NT1 regression analysis  
 NT1 time-series analysis  
 RT chaos theory  
 RT data covariances  
 RT degrees of freedom  
 RT expectation value  
 RT fault tree analysis  
 RT gauss function  
 RT maximum-likelihood fit  
 RT probabilistic estimation  
 RT probability  
 RT probability density functions  
 RT random phase approximation  
 RT stochastic processes  
 RT systems analysis  
 RT virial theorem  
 RT weighting functions

**statni urad pro jadernou bezpecnost**

INIS: 1998-01-29; ETDE: 1998-02-24

USE subj

**STATORS**

1977-01-25

RT armatures  
 RT machine parts  
 RT rotors

**stauffer aquaclus process**

2000-04-12

*A simple and efficient absorption method capable of reducing sulfur dioxide levels in diverse waste gas streams to low limits. All sulfur compounds in the tail gases are incinerated to sulfur dioxide which is then absorbed in the aquaclus solvent.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**STEADY FLOW**

SF perfect flow  
 BT1 fluid flow  
 NT1 ideal flow  
 RT steady-state conditions

**STEADY-STATE CONDITIONS**

*Reached when all transients fade out.*

- RT equilibrium
- RT standing waves
- RT steady flow
- RT steady-state fusion reactors
- RT transients

**STEADY-STATE D-T REACTORS**

- \*BT1 d-t reactors
- \*BT1 steady-state fusion reactors

**STEADY-STATE FUSION REACTORS**

- BT1 thermonuclear reactors
- NT1 steady-state d-t reactors
- RT steady-state conditions

**STEAM**

- UF *steam coolant*
- NT1 natural steam
- RT bosch process
- RT coolants
- RT district heating
- RT flash heating
- RT flashed steam systems
- RT flashing
- RT mollier diagrams
- RT rankine cycle engines
- RT steam generation
- RT steam generators
- RT steam-iron process
- RT steam lines
- RT steam quality
- RT steam systems
- RT superheating
- RT total flow systems
- RT water
- RT water vapor

**STEAM CONDENSERS**

- UF *condensers (steam)*
- BT1 vapor condensers
- NT1 ice condensers
- NT1 isolation condensers
- RT film condensation
- RT heat exchangers
- RT heat transfer
- RT reactor cooling systems
- RT steam separators

**steam coolant**

- USE steam

**STEAM COOLED REACTORS**

- 1999-10-14
- BT1 reactors
  - RT gas cooled reactors

**steam drive process**

- INIS: 2000-04-12; ETDE: 1976-06-07
- USE fluid injection processes

**steam explosion process**

- INIS: 2000-04-12; ETDE: 1984-10-10
- USE autohydrolysis

**steam generating heavy water reactor**

- 1993-11-09
- USE sghwr reactor

**STEAM GENERATION**

- INIS: 1986-07-09; ETDE: 1975-10-01
- NT1 cogeneration
  - RT refuse-fueled power plants
  - RT steam
  - RT steam generators

**STEAM GENERATION PLANTS**

- INIS: 2000-07-24; ETDE: 1981-06-13
- RT central heating plants
  - RT district heating
  - RT total energy systems

**STEAM GENERATORS**

- UF *generators (steam)*
- \*BT1 vapor generators
- RT boiler fuels
- RT boiling
- RT economizers
- RT feedwater
- RT heat exchangers
- RT heat transfer
- RT reactor cooling systems
- RT steam
- RT steam generation
- RT superheaters
- RT waterwall incinerators

**STEAM INJECTION**

- INIS: 1992-08-12; ETDE: 1976-03-11
- BT1 fluid injection
  - RT thermal recovery
  - RT well stimulation

**STEAM-IRON PROCESS**

- 2000-04-12
- Reactions in multiplicity of steel cylindrical retorts for hydrogen production.*
- BT1 chemical reactions
  - RT hydrogen production
  - RT iron
  - RT steam

**STEAM JET EJECTORS**

- BT1 vapor jet ejectors
- RT reactor cooling systems

**STEAM LINES**

- 1975-11-27
- BT1 pipelines
  - RT pipe whip
  - RT reactor cooling systems
  - RT steam
  - RT steam mufflers
  - RT steam systems
  - RT steam traps

**STEAM MUFFLERS**

- 1992-07-20
- For reduction of noise from escaping steam.*
- RT noise
  - RT steam lines

**STEAM QUALITY**

- RT steam
- RT thermodynamics

**STEAM REFORMER PROCESSES**

- 1999-01-29
- UF *segas process*
  - \*BT1 reformer processes
  - RT gas recycle hydrogenation process
  - RT hydrogen production

**STEAM SEPARATORS**

- UF *separators (steam)*
- \*BT1 vapor separators
- RT flashed steam systems
- RT reactor cooling systems
- RT steam condensers

**STEAM SOAK PROCESSES**

- 2000-04-12
- BT1 fluid injection processes
  - RT oil sands

**STEAM STRIPPING**

- INIS: 2000-04-12; ETDE: 1984-12-10
- \*BT1 waste processing
  - BT1 water treatment
  - RT waste water

**steam superheaters**

- USE superheaters

**STEAM SYSTEMS**

- 2000-03-27
- SF *braun standard turbine island*
  - SF *c f braun standard turbine island*
  - BT1 energy systems
  - NT1 flashed steam systems
  - RT reactor cooling systems
  - RT steam
  - RT steam lines
  - RT steam traps

**STEAM TRAPS**

- INIS: 2000-03-27; ETDE: 1979-04-12
- Devices that drain and remove condensate automatically from steam lines.*
- BT1 traps
  - RT steam lines
  - RT steam systems

**STEAM TURBINES**

- \*BT1 turbines
- RT flashed steam systems
- RT gas turbines
- RT reactor cooling systems

**STEAMBOAT SPRINGS**

- 2000-04-12
- Undeveloped geothermal field under exploration.*
- \*BT1 nevada

**STEARATES**

- INIS: 2000-04-12; ETDE: 1976-11-01
- BT1 carboxylic acid salts
  - RT octadecanoic acid

**stearic acid**

- USE octadecanoic acid

**steel-000kh18n13**

- INIS: 2000-04-12; ETDE: 1979-05-30
- (Prior to 1989 this was a valid ETDE descriptor.)
- USE chromium-nickel steels

**steel-000kh20n16ag6**

- INIS: 2000-04-12; ETDE: 1979-05-30
- (Prior to 1989 this was a valid ETDE descriptor.)
- USE chromium-nickel steels

**steel-000kh20n20**

- INIS: 2000-04-12; ETDE: 1979-05-30
- (Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 nickel-CHROMIUM STEELS was used for this concept in ETDE.)
- USE chromium alloys
  - USE nickel steels

**steel-000kh25**

- INIS: 2000-04-12; ETDE: 1979-05-30
- (Prior to 1989 this was a valid ETDE descriptor.)
- USE stainless steels

**steel-000kh28**

- INIS: 2000-04-12; ETDE: 1979-05-30
- (Prior to 1989 this was a valid ETDE descriptor.)
- USE stainless steels

**steel-00kh20n32t**

- INIS: 2000-04-12; ETDE: 1979-05-30
- (Prior to 1989 this was a valid ETDE descriptor.)
- USE stainless steels

**steel-03kh11n10m2t**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr11ni10mo2ti-1

**steel-03kh11n10m2tk6**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**steel-03kh13ag13**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE stainless steels

**steel-08g2sfb**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE carbon steels

**steel-08kh18n10t**

INIS: 1983-11-07; ETDE: 1982-02-11  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10ti

**steel-0kh16n15m3b**

INIS: 1983-11-07; ETDE: 1979-05-29

USE steel-cr16ni15mo3nb

**steel-0kh18g8n2t**

INIS: 2000-04-12; ETDE: 1979-06-21

USE stainless steels

**steel-0kh18n10t**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10ti

**steel-0kh18n9t**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)

USE steel-cr18ni9ti

**steel-0kh19nt**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**steel-0kh21n5t**

INIS: 1996-11-13; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 STEEL-CR21NI5TI was used for this concept in ETDE.)

USE chromium steels

USE nickel alloys

**steel-0kh22n5t**

INIS: 1996-11-13; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 STEEL-CR22NI5TI was used for this concept in ETDE.)

USE chromium steels

USE nickel alloys

**steel-1-kh18n20t3p**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)

USE chromium alloys

USE nickel steels

**steel-10cd9-10**

INIS: 1997-01-28; ETDE: 1979-05-30  
(Until October 1996 this was a valid descriptor.)

USE steel-cr2mo

**steel-10crninb910**

ETDE: 1979-05-30

USE steel-cr2moninb

**steel-12kh1mf**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-crmov

**steel-12kh2mv8fb**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steels

**steel-12kh2nch**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-ni3cr

**steel-12kh2v5fb**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steels

**steel-12khm**

INIS: 1983-11-07; ETDE: 1979-05-30

USE steel-crmo

**steel-12khn3**

INIS: 1983-11-07; ETDE: 1979-05-31  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-ni3cr

**steel-12khn3a**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-ni3cr

**steel-13cr6nimo**

INIS: 1996-11-13; ETDE: 2002-06-13

USE austenitic steels

USE chromium-nickel-molybdenum steels

**steel-15cd9-10**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr2mo

**steel-15kh1m1f**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-crmov

**steel-15kh1m1fl**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-crmov

**steel-15kh2mfa**

INIS: 1983-11-07; ETDE: 1982-01-07  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-cr2mov

**steel-15khg2sfmr**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-molybdenum steels

**steel-18kh16n6**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**steel-18kh2n4va**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-ni4crw

**steel-18mnv6**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steels

**steel-1kh12v2mf**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium steels

**steel-1kh16n14v2br ehp17**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**steel-1kh16n15m3b**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-cr16ni15mo3nb

**steel-1kh16n4b**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**steel-1kh18n10t**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10ti

**steel-1kh18n9**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to December 1988 this was a valid ETDE descriptor.)

USE steel-cr18ni9

**steel-1kh18n9t**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to December 1988 this was a valid ETDE descriptor.)

USE steel-cr18ni9ti

**steel-20kh**

INIS: 1983-11-07; ETDE: 1979-06-21  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-crni

**steel-20kh2n2m**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**steel-20kxmf**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-molybdenum steels

**steel-20kxnmf**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-20m5**

INIS: 1994-06-27; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE manganese steels

**steel-20n14**

INIS: 1996-11-13; ETDE: 1979-06-21  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 STEEL-NI4 was used for this concept in ETDE.)  
USE low alloy steels  
USE nickel alloys

**steel-22nimocr37**

INIS: 1981-02-27; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE steel-nimocr

**steel-28cdv508**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE steel-crmov

**steel-2kh13**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to June 1989 this was as valid ETDE descriptor.)  
USE steel-cr13

**steel-2kh18n8v2**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-2kh8v8m2k8**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-molybdenum steels

**steel-30n9k4**

INIS: 1994-07-01; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE nickel steels

**steel-37kxnm3t**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept in ETDE.)  
USE chromium alloys  
USE nickel steels

**steel-38kx5msfa**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-molybdenum steels

**steel-38kxmyua**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cralnimo

**steel-3hk5s**

ETDE: 1979-05-31  
USE steel-cr2moninb

**steel-3kh15n13yu3**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-40k14g18f**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to May 2001 this was a valid descriptor.)  
USE chromium steels  
USE manganese alloys  
USE vanadium alloys

**steel-40kh**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-crni

**steel-40kh13n8g8**

INIS: 1996-11-13; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 STEEL-CR13MN8NI8 was used for this concept.)  
USE austenitic steels  
USE chromium-nickel steels  
USE manganese alloys

**steel-40kh2n5sm**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**steel-40kxnm**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-nicr

**steel-40kxnmma**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-nicrmo

**steel-42kh2gsmn**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel-molybdenum steels

**steel-4kh12n8g8mfb**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-4kh14nv2m**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-5kh2mf**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-crmov

**steel-60kh3g8n8v**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)  
SEE chromium alloys  
SEE steels

**steel-7kh18n9**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni9

**steel-9cr**

INIS: 1988-03-08; ETDE: 2002-06-13  
USE steel-cr10mo2

**steel-9kh18**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr18

**steel-9kxms**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium steels

**STEEL-ASTM-A105**

INIS: 2000-04-12; ETDE: 1979-05-29  
\*BT1 carbon steels

**STEEL-ASTM-A106**

1993-10-03  
\*BT1 carbon steels

**STEEL-ASTM-A212**

1993-10-03  
\*BT1 carbon steels

**STEEL-ASTM-A285**

INIS: 1993-10-03; ETDE: 1978-12-20  
UF a 285 steel  
\*BT1 carbon steels

**STEEL-ASTM-A302**

1993-10-03  
\*BT1 steel-mnmo

**STEEL-ASTM-A350**

2000-04-12  
\*BT1 low alloy steels

**steel-astm-a350 (gr 1)**

INIS: 1983-11-09; ETDE: 2002-06-13  
USE carbon steels

**steel-astm-a350 (gr 2)**

INIS: 1983-11-09; ETDE: 2002-06-13  
USE carbon steels

**steel-astm-a350 (gr 3)**

INIS: 1996-11-13; ETDE: 2002-06-13  
USE low alloy steels  
USE nickel alloys

**steel-astm-a350 (gr 4)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-crni

**STEEL-ASTM-A387**

INIS: 2000-04-12; ETDE: 1979-03-27  
\*BT1 low alloy steels

**steel-astm-a387 (gr 11)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-crmo

**steel-astm-a387 (gr 12)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-crmo

**steel-astm-a387 (gr 2)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-crmo

**steel-astm-a387 (gr 21)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-cr2mo

**steel-astm-a387 (gr 22)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-cr2mo

**steel-astm-a387 (gr 5)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-cr5mo

**steel-astm-a416**

INIS: 1997-01-28; ETDE: 1979-03-28  
(Until October 1996 this was a valid descriptor.)  
USE carbon steels

**STEEL-ASTM-A508**

1999-02-18  
\*BT1 low alloy steels

**steel-astm-a508 (gr 2)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-nimocr

**steel-astm-a508 (gr 3)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-mnnimo

**steel-astm-a508 (gr 4)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-ni3crmo

**steel-astm-a508 (gr 5)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-ni3crmov

**STEEL-ASTM-A516**

INIS: 1993-10-03; ETDE: 1976-02-19  
\*BT1 carbon steels

**STEEL-ASTM-A533**

1993-01-28  
For grade A or B use STEEL-MNNIMO, and  
for grade C or D use STEEL-MNMO.  
\*BT1 low alloy steels

**steel-astm-a533 (gr a)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-mnnimo

**steel-astm-a533 (gr b)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-astm-a533-b

**steel-astm-a533 (gr c)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-mnmo

**steel-astm-a533 (gr d)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-mnmo

**STEEL-ASTM-A533-B**

1999-05-27  
UF steel-astm-a533 (gr b)  
\*BT1 carbon steels  
\*BT1 steel-mnnimo

**STEEL-ASTM-A537**

INIS: 1993-10-03; ETDE: 1981-01-27  
\*BT1 steel-mncumo

**STEEL-ASTM-A542**

1993-10-03  
\*BT1 steel-cr2mo

**STEEL-ASTM-A543**

1993-10-03  
\*BT1 steel-ni3crmo

**STEEL-ASTM-A572**

INIS: 2000-04-12; ETDE: 1979-12-17  
\*BT1 steels

**STEEL-CD-4MCU**

INIS: 2000-04-12; ETDE: 1979-09-06  
UF cd-4mcu  
\*BT1 chromium alloys  
\*BT1 copper alloys  
\*BT1 corrosion resistant alloys  
\*BT1 iron base alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel alloys

**STEEL-CR10MO2**

INIS: 1988-03-08; ETDE: 1989-11-06  
UF steel-9cr  
UF steel-ifms  
\*BT1 chromium steels  
\*BT1 martensitic steels  
\*BT1 molybdenum alloys  
RT first wall

**STEEL-CR11NI10MO2TI-L**

1983-11-07  
UF steel-03kh11n10m2t  
UF steel-ehp 678  
UF steel-ehp 679  
UF steel-ehp678  
UF steel-ehp679  
\*BT1 chromium-nickel-molybdenum steels  
\*BT1 corrosion resistant alloys  
\*BT1 low carbon-high alloy steels  
\*BT1 titanium alloys

**STEEL-CR12**

1983-11-07  
UF steel-kh12  
\*BT1 chromium steels  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 martensitic steels  
NT1 stainless steel-403

**STEEL-CR12MONIV**

INIS: 1984-02-23; ETDE: 1990-11-26  
UF steel-x20crmov 121  
\*BT1 chromium steels  
\*BT1 corrosion resistant alloys  
\*BT1 ferritic steels  
\*BT1 heat resisting alloys  
\*BT1 molybdenum additions  
\*BT1 nickel additions  
\*BT1 vanadium additions

**STEEL-CR12MOV**

1983-11-08  
UF steel-ht-9  
UF steel-kh12m  
\*BT1 chromium steels  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 martensitic steels  
\*BT1 molybdenum additions  
\*BT1 vanadium additions  
NT1 alloy-ht-9

**STEEL-CR13**

INIS: 1999-10-08; ETDE: 1983-11-19  
UF croloy 12

UF steel-2kh13

UF steel-kh13

\*BT1 chromium steels  
\*BT1 corrosion resistant alloys  
\*BT1 croloy  
\*BT1 heat resisting alloys  
\*BT1 martensitic steels  
NT1 stainless steel-410

**STEEL-CR13AL**

1983-11-07  
\*BT1 aluminium additions  
\*BT1 chromium steels  
\*BT1 corrosion resistant alloys  
\*BT1 ferritic steels  
\*BT1 heat resisting alloys  
NT1 stainless steel-405

**steel-cr13mn8ni8**

INIS: 1997-01-28; ETDE: 1983-11-19  
(Until October 1996 this was a valid descriptor.)  
USE austenitic steels  
USE chromium-nickel steels  
USE manganese alloys

**steel-cr13ni6mo-l**

INIS: 1997-01-28; ETDE: 1990-11-26  
(Until October 1996 this was a valid descriptor.)  
USE austenitic steels  
USE chromium-nickel-molybdenum steels  
USE low carbon-high alloy steels

**STEEL-CR15NI15MOTIB**

1983-11-07  
UF steel-din-1-4970  
\*BT1 austenitic steels  
\*BT1 boron additions  
\*BT1 chromium-nickel-molybdenum steels  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 titanium additions

**STEEL-CR16**

1983-11-07  
UF croloy 18  
\*BT1 chromium steels  
\*BT1 corrosion resistant alloys  
\*BT1 croloy  
\*BT1 ferritic steels  
\*BT1 heat resisting alloys  
NT1 stainless steel-430

**STEEL-CR16NI**

INIS: 1996-11-13; ETDE: 1983-11-19  
(From April 1977 till March 1997  
STAINLESS STEEL-431 was a valid ETDE  
descriptor.)  
UF stainless steel-431  
\*BT1 chromium steels  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 martensitic steels  
\*BT1 nickel alloys

**STEEL-CR16NI13MONBV**

1983-11-07  
UF steel-din-1-4988  
\*BT1 austenitic steels  
\*BT1 chromium-nickel-molybdenum steels  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 niobium additions  
\*BT1 vanadium additions

**STEEL-CR16NI15MO3NB**

1983-11-07  
UF steel-0kh16n15m3b  
UF steel-1kh16n15m3b  
UF steel-kh16n15m3b

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions

**STEEL-CR16NI16MONB**

1983-11-07

- UF *steel-din-1-4981*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions

**STEEL-CR16NI8MO2**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-16-8-2

**STEEL-CR16NI9MO2**

2003-01-23

- UF *steel-kh16n9m2*
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 manganese additions
- \*BT1 silicon additions

**STEEL-CR17CU4NI4NB-L**

INIS: 1983-11-07; ETDE: 1989-11-06

- \*BT1 chromium steels
- \*BT1 copper alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 low carbon-high alloy steels
- \*BT1 martensitic steels
- \*BT1 nickel alloys
- \*BT1 niobium additions
- NT1 stainless steel-17-4ph

**steel-cr17mn15ni**

INIS: 1996-07-23; ETDE: 1984-01-27

- (Until July 1996 this was a valid descriptor.)
- USE stainless steels

**STEEL-CR17MO**

1983-11-07

- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 martensitic steels
- \*BT1 molybdenum additions
- NT1 stainless steel-440

**STEEL-CR17NI12MO3**

1983-11-07

- UF *stainless steel-z6cnd17-12*
- UF *steel-din-1-4919*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-316

**STEEL-CR17NI12MO3-L**

1983-11-07

- UF *stainless steel-z2cnd17-12*
- UF *stainless steel-z3cnd17-12*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 low carbon-high alloy steels
- NT1 stainless steel-316l
- NT1 stainless steel-zcnd17-13

**STEEL-CR17NI12MONB**

1983-11-07

- UF *stainless steel-fv548*
- \*BT1 austenitic steels

- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions

**STEEL-CR17NI13**

INIS: 1985-09-06; ETDE: 1990-11-26

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys

**STEEL-CR17NI13MO2TI**

1983-11-07

- UF *steel-kh17n13m2t*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 titanium additions

**STEEL-CR17NI13MO3TI**

1983-11-07

- UF *alloy-ehi 183*
- UF *alloy-ehi 397*
- UF *alloy-ehi 432*
- UF *steel-kh17n13m3t*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 titanium additions

**STEEL-CR17NI4MO3**

INIS: 1996-11-13; ETDE: 1983-11-16

(From 1974 till March 1997 STAINLESS STEEL-AM-350 was a valid ETDE descriptor.)

- UF *stainless steel-am-350*
- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys

**STEEL-CR17NI7**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-301

**STEEL-CR18**

1983-11-07

- UF *steel-9kh18*
- UF *steel-kh18*
- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 martensitic steels

**STEEL-CR18NI10**

1983-11-07

- UF *croloy 3035*
- UF *stainless steel-z6cn18-10*
- UF *steel-kh18n10*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 croloy
- \*BT1 heat resisting alloys
- NT1 stainless steel-18-10

**STEEL-CR18NI10-L**

INIS: 1996-11-13; ETDE: 1983-11-16

(From May 1979 till March 1997 STAINLESS STEEL-Z2CN18-10 was a valid ETDE descriptor.)

- UF *stainless steel-z2cn18-10*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys

- \*BT1 heat resisting alloys
- \*BT1 low carbon-high alloy steels

**STEEL-CR18NI10TI**

1983-11-07

- UF *stainless steel-z6cnt18-10*
- UF *stainless steel-z8cnt18-10*
- UF *steel-08kh18n10t*
- UF *steel-0kh18n10t*
- UF *steel-1kh18n10t*
- UF *steel-kh18n10t*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 titanium additions
- NT1 stainless steel-321

**STEEL-CR18NI11**

1983-11-07

- UF *steel-din-1-4948*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 steel-x6crni1811

**STEEL-CR18NI11NB**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions
- NT1 stainless steel-347

**STEEL-CR18NI11NBCO**

INIS: 1983-11-07; ETDE: 1984-02-10

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 cobalt additions
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions
- NT1 stainless steel-348

**STEEL-CR18NI12**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-305

**STEEL-CR18NI12TI**

1983-11-07

- UF *steel-kh18n12t*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 titanium additions

**STEEL-CR18NI8**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-18-8

**STEEL-CR18NI9**

1983-11-07

- UF *steel-1kh18n9*
- UF *steel-7kh18n9*
- UF *steel-din-1-4301*
- UF *steel-kh18n9*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-302

**STEEL-CR18NI9TI**

1983-11-07

*UF steel-0kh18n9t**UF steel-1kh18n9t**UF steel-kh18n9t*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 titanium additions

**STEEL-CR19NI10**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1** stainless steel-304

**STEEL-CR19NI10-L**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 low carbon-high alloy steels
- NT1** stainless steel-304I

**STEEL-CR20NI11**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1** stainless steel-308

**STEEL-CR20NI11-L**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 low carbon-high alloy steels
- NT1** stainless steel-308I

**STEEL-CR21MN9NI6**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 manganese alloys
- \*BT1 nickel alloys
- \*BT1 nitrogen additions
- \*BT1 stainless steels
- NT1** stainless steel-21-6-9

**steel-cr21ni5ti***INIS: 1997-01-28; ETDE: 1983-11-19*

(Until October 1996 this was a valid descriptor.)

- USE chromium steels
- USE nickel alloys

**steel-cr22ni5ti***INIS: 1997-01-28; ETDE: 1983-11-19*

(Until October 1996 this was a valid descriptor.)

- USE chromium steels
- USE nickel alloys

**STEEL-CR23NI14**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1** stainless steel-309
- NT1** stainless steel-309s

**STEEL-CR23NI18**

1983-11-07

*UF steel-kh23n18*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys

**STEEL-CR25**

1983-11-07

*UF steel-kh25*

- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 ferritic steels
- \*BT1 heat resisting alloys
- NT1** stainless steel-446

**STEEL-CR25NI20**

1983-11-07

*UF alloy-ck-20**UF hk 40*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1** alloy-hk-40
- NT1** stainless steel-310

**steel-cr26ni5mo-l***INIS: 1997-01-28; ETDE: 1983-11-19*

(Until October 1996 this was a valid descriptor.)

- USE chromium steels
- USE low carbon-high alloy steels
- USE molybdenum alloys
- USE nickel alloys

**STEEL-CR2MO***INIS: 1996-11-13; ETDE: 1983-11-09*

(From May 1979 till March 1997 STEEL-10CD9-10 was a valid ETDE descriptor; from May 1979 till June 1989 STEEL-15CD9-10 was a valid ETDE descriptor.)

*UF croloy 2**UF steel-10cd9-10**UF steel-15cd9-10**UF steel-astm-a387 (gr 21)**UF steel-astm-a387 (gr 22)*

- \*BT1 chromium alloys
- \*BT1 croloy
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- NT1** steel-astm-a542

**STEEL-CR2MONINB**

1983-11-07

*UF sandvik-ht8x6**UF steel-10crninb910**UF steel-3hk5s**UF steel-din-1-6770*

- \*BT1 chromium alloys
- \*BT1 heat resisting alloys
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions
- \*BT1 niobium additions
- RT* ferrite

**STEEL-CR2MOV**

1983-11-07

*UF steel-15kh2mfa*

- \*BT1 chromium alloys
- \*BT1 copper additions
- \*BT1 heat resisting alloys
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions
- \*BT1 vanadium additions

**STEEL-CR2NIMOV***INIS: 1986-05-23; ETDE: 1990-11-26*

- \*BT1 chromium alloys
- \*BT1 copper additions
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel alloys
- \*BT1 vanadium additions

**STEEL-CR5MO**

1983-11-07

*UF croloy 5**UF steel-astm-a387 (gr 5)**UF steel-kh5m*

- \*BT1 chromium alloys
- \*BT1 croloy
- \*BT1 low alloy steels
- \*BT1 molybdenum additions

**STEEL-CR9MO***INIS: 1984-02-23; ETDE: 1990-11-26*

- \*BT1 chromium steels
- \*BT1 ferritic steels
- \*BT1 molybdenum additions

**STEEL-CR9MONBV***INIS: 1996-11-13; ETDE: 1983-11-19*

(Until October 1996 this was a valid descriptor.)

- UF steel-z10cdnby9*
- \*BT1 chromium steels
- \*BT1 ferritic steels
- \*BT1 molybdenum alloys
- \*BT1 niobium additions
- \*BT1 vanadium additions

**STEEL-CRALNIMO**

1983-11-07

*UF steel-38khmyua*

- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions

**STEEL-CRMO**

1983-11-07

*UF steel-12khm**UF steel-astm-a387 (gr 11)**UF steel-astm-a387 (gr 12)**UF steel-astm-a387 (gr 2)*

- \*BT1 chromium additions
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions

**STEEL-CRMOV**

1983-11-07

*UF steel-12kh1mf**UF steel-15kh1m1f**UF steel-15kh1m1f1**UF steel-28cdv508**UF steel-5kh2mf*

- \*BT1 chromium alloys
- \*BT1 copper additions
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions
- \*BT1 vanadium additions

**STEEL-CRNI**

1983-11-07

*UF steel-20kh**UF steel-40kh**UF steel-astm-a350 (gr 4)*

- \*BT1 chromium additions
- \*BT1 copper additions
- \*BT1 low alloy steels
- \*BT1 nickel additions

**steel-din-1-4301**

INIS: 1983-11-07; ETDE: 1980-08-12  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni9

**steel-din-1-4449**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-din-1-4919**

INIS: 1983-11-18; ETDE: 1980-08-12  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr17ni12mo3

**steel-din-1-4948**

INIS: 1983-11-07; ETDE: 1979-05-29  
Equivalent to STAINLESS STEEL-304.  
(prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr18ni11

**steel-din-1-4970**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr15ni15motib

**steel-din-1-4981**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr16ni16monb

**steel-din-1-4988**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr16ni13monbv

**steel-din-1-6310**

INIS: 1983-11-08; ETDE: 1980-05-07  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-mnnimo

**steel-din-1-6342**

INIS: 1983-11-07; ETDE: 1980-08-12  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-mnnimov

**steel-din-1-6343**

INIS: 1983-11-08; ETDE: 1980-08-12  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-mnnimo

**steel-din-1-6348**

INIS: 1996-07-23; ETDE: 1980-08-12  
(Prior to March 1989 this was a valid ETDE descriptor; from March 1989 till March 1997 STEEL-NI3MOV was used for this concept.)  
USE low alloy steels  
USE nickel alloys

**steel-din-1-6742**

INIS: 1983-11-08; ETDE: 1980-08-12  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-ni3crmo

**steel-din-1-6751**

INIS: 1983-11-07; ETDE: 1980-08-12  
USE steel-nimocr

**steel-din-1-6770**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr2moninb

**steel-din-1-6950**

INIS: 1983-11-07; ETDE: 1980-08-12  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-ni3crmov

**steel-ehp 678**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-cr11ni10mo2ti-1

**steel-ehp 679**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-cr11ni10mo2ti-1

**steel-ehp678**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr11ni10mo2ti-1

**steel-ehp679**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr11ni10mo2ti-1

**steel-ehp699**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel-molybdenum steels

**steel-ht-9**

INIS: 1985-09-06; ETDE: 2002-06-13  
USE steel-cr12mov

**STEEL-IN-787**

INIS: 2000-04-12; ETDE: 1976-08-24  
\*BT1 carbon steels  
\*BT1 copper alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel alloys  
\*BT1 niobium alloys

**steel industry**

INIS: 1992-03-10; ETDE: 1979-12-10  
USE metal industry

**steel-jfms**

INIS: 1988-03-08; ETDE: 2002-06-13  
USE steel-cr10mo2

**steel-kh12**

INIS: 1983-11-07; ETDE: 1979-05-31  
USE steel-cr12

**steel-kh12m**

INIS: 1983-11-08; ETDE: 1979-05-29  
USE steel-cr12mov

**steel-kh12n20t3p**

INIS: 2000-04-12; ETDE: 1979-05-31  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 nickel-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**steel-kh13**

INIS: 1983-11-07; ETDE: 1979-05-31  
USE steel-cr13

**steel-kh13s2yu2bt**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium steels

**steel-kh14k9n6m5**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel-molybdenum steels

**steel-kh14n8yum2**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-kh15n20m2t2**

INIS: 2000-04-12; ETDE: 1979-05-29  
USE chromium-nickel-molybdenum steels

**steel-kh15n7yum2**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-kh15n9yu**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-kh16n15m3b**

INIS: 1983-11-07; ETDE: 1979-05-29  
USE steel-cr16ni15mo3nb

**steel-kh16n9m2**

INIS: 2003-01-23; ETDE: 1979-05-29  
(Prior to January 2003 this was a valid descriptor.)  
USE steel-cr16ni9mo2

**steel-kh17n13m2t**

INIS: 1983-11-07; ETDE: 1979-05-29  
USE steel-cr17ni13mo2ti

**steel-kh17n13m3t**

INIS: 1983-11-07; ETDE: 1979-05-29  
USE steel-cr17ni13mo3ti

**steel-kh17n5m3**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel-molybdenum steels

**steel-kh18**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18

**steel-kh18n10**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni10

**steel-kh18n10t**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni10ti

**steel-kh18n12t**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni12ti



**steel-kh18n22v2t2**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**steel-kh18n8**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-kh18n9**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni9

**steel-kh18n9t**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni9ti

**steel-kh20n45b**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE alloy-ni45fe34cr20

**steel-kh23n18**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr23ni18

**steel-kh25**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr25

**steel-kh5m**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr5mo

**steel-khn35vt**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**STEEL-MNCUMO**

1983-11-07  
\*BT1 chromium additions  
\*BT1 copper additions  
\*BT1 low alloy steels  
\*BT1 manganese alloys  
\*BT1 molybdenum additions  
\*BT1 nickel additions  
NT1 steel-astm-a537

**STEEL-MNMO**

1983-11-07  
UF steel-astm-a533 (gr c)  
UF steel-astm-a533 (gr d)  
\*BT1 low alloy steels  
\*BT1 manganese alloys  
\*BT1 molybdenum additions  
NT1 steel-astm-a302

**STEEL-MNNIMO**

INIS: 1999-05-27; ETDE: 1983-11-09  
UF steel-astm-a508 (gr 3)  
UF steel-astm-a533 (gr a)  
UF steel-din-1-6310  
UF steel-din-1-6343  
\*BT1 low alloy steels  
\*BT1 manganese alloys  
\*BT1 molybdenum additions  
\*BT1 nickel additions  
NT1 steel-astm-a533-b

**STEEL-MNNIMOV**

1983-11-07  
UF steel-din-1-6342  
\*BT1 low alloy steels  
\*BT1 manganese alloys  
\*BT1 molybdenum additions  
\*BT1 nickel alloys  
\*BT1 vanadium additions

**steel-n26kht1**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**steel-n36khtyu**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-ni36cr12ti3al-l

**steel-ni17cr14moti-l**

INIS: 1997-01-28; ETDE: 1990-11-26  
(Until October 1996 this was a valid descriptor.)  
USE austenitic steels  
USE chromium-nickel-molybdenum steels  
USE low carbon-high alloy steels

**STEEL-NI25CR20**

1983-11-07  
\*BT1 austenitic steels  
\*BT1 chromium-nickel steels  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
NT1 stainless steel-20-25

**STEEL-NI26CR15TI2MOVALB**

1983-11-07  
\*BT1 aluminium additions  
\*BT1 austenitic steels  
\*BT1 boron additions  
\*BT1 chromium-nickel-molybdenum steels  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 titanium alloys  
\*BT1 vanadium additions  
NT1 alloy-a-286

**STEEL-NI36CR12TI3AL-L**

1983-11-07  
UF steel-n36khtyu  
SF alloy-ehi 702  
\*BT1 aluminium additions  
\*BT1 chromium-nickel steels  
\*BT1 corrosion resistant alloys  
\*BT1 low carbon-high alloy steels  
\*BT1 titanium alloys

**steel-ni36cr18**

INIS: 1997-01-28; ETDE: 1983-11-19  
(Until October 1996 this was a valid descriptor.)  
USE austenitic steels  
USE chromium-nickel steels

**STEEL-NI3CR**

1983-11-07  
UF steel-12kh2nch  
UF steel-12khn3  
UF steel-12khn3a  
\*BT1 chromium additions  
\*BT1 copper additions  
\*BT1 low alloy steels  
\*BT1 nickel alloys

**STEEL-NI3CRMO**

1983-11-07  
UF steel-astm-a508 (gr 4)  
UF steel-din-1-6742  
\*BT1 chromium alloys  
\*BT1 low alloy steels  
\*BT1 molybdenum additions  
\*BT1 nickel alloys  
\*BT1 vanadium additions  
NT1 steel-astm-a543

**STEEL-NI3CRMV**

1983-11-07  
UF steel-astm-a508 (gr 5)  
UF steel-din-1-6950  
\*BT1 chromium alloys  
\*BT1 low alloy steels  
\*BT1 molybdenum additions  
\*BT1 nickel alloys  
\*BT1 vanadium additions

**steel-ni3mov**

INIS: 1996-07-23; ETDE: 1983-11-10  
(Until July 1996 this was a valid descriptor.)  
USE low alloy steels  
USE nickel alloys

**steel-ni4**

INIS: 1997-01-28; ETDE: 1984-02-10  
(Until October 1996 this was a valid descriptor.)  
USE low alloy steels  
USE nickel alloys

**STEEL-NI4CRW**

1983-11-07  
UF steel-18kh2n4va  
\*BT1 chromium alloys  
\*BT1 copper additions  
\*BT1 low alloy steels  
\*BT1 nickel alloys  
\*BT1 tungsten additions

**STEEL-NICR**

1983-11-07  
UF steel-40khn  
\*BT1 chromium additions  
\*BT1 copper additions  
\*BT1 low alloy steels  
\*BT1 nickel alloys

**STEEL-NICRMO**

1983-11-07  
UF steel-40khnma  
\*BT1 chromium additions  
\*BT1 copper additions  
\*BT1 low alloy steels  
\*BT1 molybdenum additions  
\*BT1 nickel alloys  
\*BT1 nitrogen additions

**STEEL-NIMOCR**

1983-11-07  
UF steel-22nimocr37  
UF steel-astm-a508 (gr 2)  
UF steel-din-1-6751  
\*BT1 chromium additions  
\*BT1 heat resisting alloys  
\*BT1 low alloy steels  
\*BT1 molybdenum additions  
\*BT1 nickel additions

**steel-r18**

*INIS: 2000-04-12; ETDE: 1979-06-21*  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium steels

**steel-sae-1006**

*INIS: 1997-01-28; ETDE: 1977-04-13*  
(Until October 1996 this was a valid descriptor.)

USE carbon steels

**STEEL-SAE-1045**

*INIS: 2000-04-12; ETDE: 1979-06-21*

\*BT1 carbon steels

**steel vnt**

*INIS: 1997-01-28; ETDE: 1978-12-20*  
(Prior to March 1997 this was a valid ETDE descriptor.)

USE manganese steels

**steel-vzh102**

*INIS: 2000-04-12; ETDE: 1979-05-29*  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)

USE chromium alloys

USE nickel steels

**steel-x20crmov 121**

*INIS: 1984-04-25; ETDE: 2002-06-13*

USE steel-cr12moniv

**STEEL-X6CRNI1811**

*INIS: 1993-10-03; ETDE: 1979-05-29*

\*BT1 steel-cr18ni11

**steel-z10cndbv9**

*INIS: 1997-01-28; ETDE: 1979-05-29*  
(Prior to March 1997 this was a valid ETDE descriptor.)

USE steel-cr9monbv

**steel-z10cdv7**

*INIS: 2000-04-12; ETDE: 1979-05-29*  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-molybdenum steels

**STEELS**

UF steel-12kh2mv8fb

UF steel-12kh2v5fb

UF steel-18mmv6

SF steel-60kh3g8n8v

\*BT1 carbon additions

\*BT1 iron base alloys

NT1 austenitic steels

NT2 steel-cr15ni15motib

NT2 steel-cr16ni13monbv

NT2 steel-cr16ni15mo3nb

NT2 steel-cr16ni16monb

NT2 steel-cr16ni8mo2

NT3 stainless steel-16-8-2

NT2 steel-cr17ni12mo3

NT3 stainless steel-316

NT2 steel-cr17ni12mo3-l

NT3 stainless steel-316l

NT3 stainless steel-zcnd17-13

NT2 steel-cr17ni12monb

NT2 steel-cr17ni13

NT2 steel-cr17ni13mo2ti

NT2 steel-cr17ni13mo3ti

NT2 steel-cr17ni7

NT3 stainless steel-301

NT2 steel-cr18ni10

NT3 stainless steel-18-10

NT2 steel-cr18ni10-l

NT2 steel-cr18ni10ti

NT3 stainless steel-321

NT2 steel-cr18ni11

NT3 steel-x6crni1811

NT2 steel-cr18ni11nb

NT3 stainless steel-347

NT2 steel-cr18ni11nbco

NT3 stainless steel-348

NT2 steel-cr18ni12

NT3 stainless steel-305

NT2 steel-cr18ni12ti

NT2 steel-cr18ni8

NT3 stainless steel-18-8

NT2 steel-cr18ni9

NT3 stainless steel-302

NT2 steel-cr18ni9ti

NT2 steel-cr19ni10

NT3 stainless steel-304

NT2 steel-cr19ni10-l

NT3 stainless steel-304l

NT2 steel-cr20ni11

NT3 stainless steel-308

NT2 steel-cr20ni11-l

NT3 stainless steel-308l

NT2 steel-cr21mn9ni6

NT3 stainless steel-21-6-9

NT2 steel-cr23ni14

NT3 stainless steel-309

NT3 stainless steel-309s

NT2 steel-cr23ni18

NT2 steel-cr25ni20

NT3 alloy-hk-40

NT3 stainless steel-310

NT2 steel-ni25cr20

NT3 stainless steel-20-25

NT2 steel-ni26cr15ti2moyalb

NT3 alloy-a-286

NT1 carbon steels

NT2 steel-astm-a105

NT2 steel-astm-a106

NT2 steel-astm-a212

NT2 steel-astm-a285

NT2 steel-astm-a516

NT2 steel-astm-a533-b

NT2 steel-in-787

NT2 steel-sae-1045

NT1 colroy

NT2 steel-cr13

NT3 stainless steel-410

NT2 steel-cr16

NT3 stainless steel-430

NT2 steel-cr18ni10

NT3 stainless steel-18-10

NT2 steel-cr2mo

NT3 steel-astm-a542

NT2 steel-cr5mo

NT1 ferritic steels

NT2 steel-cr12moniv

NT2 steel-cr13al

NT3 stainless steel-405

NT2 steel-cr16

NT3 stainless steel-430

NT2 steel-cr25

NT3 stainless steel-446

NT2 steel-cr9mo

NT2 steel-cr9monbv

NT1 high alloy steels

NT2 stainless steels

NT3 chromium-nickel steels

NT4 alloy-d-9

NT4 carpenter

NT4 chromium-nickel-molybdenum steels

NT5 alloy-m-813

NT5 steel-cr11ni10mo2ti-l

NT5 steel-cr15ni15motib

NT5 steel-cr16ni13monbv

NT5 steel-cr16ni15mo3nb

NT5 steel-cr16ni16monb

NT5 steel-cr16ni8mo2

NT6 stainless steel-16-8-2

NT5 steel-cr16ni9mo2

NT5 steel-cr17ni12mo3

NT6 stainless steel-316

NT5 steel-cr17ni12mo3-l

NT6 stainless steel-316l

NT6 stainless steel-zcnd17-13

NT5 steel-cr17ni12monb

NT5 steel-cr17ni13mo2ti

NT5 steel-cr17ni13mo3ti

NT5 steel-ni26cr15ti2moyalb

NT6 alloy-a-286

NT4 durco

NT4 enduro

NT4 stainless steel-17-7ph

NT4 stainless steel-303

NT4 stainless steel-329

NT4 stainless steel-ph-15-7-mo

NT4 steel-cr17ni13

NT4 steel-cr17ni7

NT5 stainless steel-301

NT4 steel-cr18ni10

NT5 stainless steel-18-10

NT4 steel-cr18ni10-l

NT4 steel-cr18ni10ti

NT5 stainless steel-321

NT4 steel-cr18ni11

NT5 steel-x6crni1811

NT4 steel-cr18ni11nb

NT5 stainless steel-347

NT4 steel-cr18ni11nbco

NT5 stainless steel-348

NT4 steel-cr18ni12

NT5 stainless steel-305

NT4 steel-cr18ni12ti

NT4 steel-cr18ni8

NT5 stainless steel-18-8

NT4 steel-cr18ni9

NT5 stainless steel-302

NT4 steel-cr18ni9ti

NT4 steel-cr19ni10

NT5 stainless steel-304

NT4 steel-cr19ni10-l

NT5 stainless steel-304l

NT4 steel-cr20ni11

NT5 stainless steel-308

NT4 steel-cr20ni11-l

NT5 stainless steel-308l

NT4 steel-cr23ni14

NT5 stainless steel-309

NT5 stainless steel-309s

NT4 steel-cr23ni18

NT4 steel-cr25ni20

NT5 alloy-hk-40

NT5 stainless steel-310

NT4 steel-ni25cr20

NT5 stainless steel-20-25

NT4 steel-ni36cr12ti3al-l

NT4 timken alloys

NT3 chromium steels

NT4 chromium-molybdenum steels

NT5 chromium-nickel-molybdenum steels

NT6 alloy-m-813

NT6 steel-cr11ni10mo2ti-l

NT6 steel-cr15ni15motib

NT6 steel-cr16ni13monbv

NT6 steel-cr16ni15mo3nb

NT6 steel-cr16ni16monb

NT6 steel-cr16ni8mo2

NT7 stainless steel-16-8-2

NT6 steel-cr16ni9mo2

NT6 steel-cr17ni12mo3

NT7 stainless steel-316

NT6 steel-cr17ni12mo3-l

NT7 stainless steel-316l

NT7 stainless steel-zcnd17-13

NT6 steel-cr17ni12monb

NT6 steel-cr17ni13mo2ti

NT6 steel-cr17ni13mo3ti

**NT6** steel-ni26cr15ti2movalb  
**NT7** alloy-a-286  
**NT4** magnet steel-ks  
**NT4** miduale  
**NT4** stainless steel-406  
**NT4** steel-cr10mo2  
**NT4** steel-cr12  
**NT5** stainless steel-403  
**NT4** steel-cr12moniv  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr13al  
**NT5** stainless steel-405  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr16ni  
**NT4** steel-cr17cu4ni4nb-1  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17mo  
**NT5** stainless steel-440  
**NT4** steel-cr17ni4mo3  
**NT4** steel-cr18  
**NT4** steel-cr25  
**NT5** stainless steel-446  
**NT4** steel-cr9mo  
**NT4** steel-cr9monbv  
**NT3** low carbon-high alloy steels  
**NT4** steel-cr11ni10mo2ti-1  
**NT4** steel-cr17cu4ni4nb-1  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17ni12mo3-1  
**NT5** stainless steel-316l  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr18ni10-1  
**NT4** steel-cr19ni10-1  
**NT5** stainless steel-304l  
**NT4** steel-cr20ni11-1  
**NT5** stainless steel-308l  
**NT4** steel-ni36cr12ti3al-1  
**NT3** stainless steel-317  
**NT3** stainless steel-318  
**NT3** stainless steel-422  
**NT3** stainless steel-fv-548  
**NT3** stainless steel-jbk-75  
**NT3** stainless steel m-50  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** sweetalloy  
**NT1** low alloy steels  
**NT2** steel-astm-a350  
**NT2** steel-astm-a387  
**NT2** steel-astm-a508  
**NT2** steel-astm-a533  
**NT2** steel-cr2mo  
**NT3** steel-astm-a542  
**NT2** steel-cr2moninb  
**NT2** steel-cr2mov  
**NT2** steel-cr2nimov  
**NT2** steel-cr5mo  
**NT2** steel-cralnimo  
**NT2** steel-crmo  
**NT2** steel-crmov  
**NT2** steel-crimi  
**NT2** steel-mncumo  
**NT3** steel-astm-a537  
**NT2** steel-mnmo  
**NT3** steel-astm-a302  
**NT2** steel-mnnimo  
**NT3** steel-astm-a533-b  
**NT2** steel-mnnimov  
**NT2** steel-ni3cr  
**NT2** steel-ni3crmo  
**NT3** steel-astm-a543  
**NT2** steel-ni3crmov  
**NT2** steel-ni4crw  
**NT2** steel-nicr  
**NT2** steel-nicrmo

**NT2** steel-nimocr  
**NT1** manganese steels  
**NT1** martensitic steels  
**NT2** maraging steels  
**NT2** steel-cr10mo2  
**NT2** steel-cr12  
**NT3** stainless steel-403  
**NT2** steel-cr12mov  
**NT3** alloy-ht-9  
**NT2** steel-cr13  
**NT3** stainless steel-410  
**NT2** steel-cr16ni  
**NT2** steel-cr17cu4ni4nb-1  
**NT3** stainless steel-17-4ph  
**NT2** steel-cr17mo  
**NT3** stainless steel-440  
**NT2** steel-cr18  
**NT1** nickel steels  
**NT2** sweetalloy  
**NT1** steel-astm-a572  
*RT* bainite  
*RT* cementite  
*RT* decarburization  
*RT* ferrite  
*RT* martensite  
*RT* pearlite

### steenstrupine

*INIS: 1997-01-28; ETDE: 1991-10-22*  
 (Until October 1996 this was a valid descriptor.)

USE phosphate minerals  
 USE silicate minerals  
 USE thorium minerals  
 USE uranium minerals

### STEK REACTOR

*UF* krito critical assembly  
*UF* petten stek reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

### STELLAR ACTIVITY

1984-12-04

**NT1** solar activity  
**NT2** faculae  
**NT2** plages  
**NT2** solar flares  
**NT2** solar granulation  
**NT2** solar prominences  
**NT2** solar radio bursts  
**NT2** solar wind  
**NT2** solar x-ray bursts  
**NT2** sunspots  
**NT1** starspots  
**NT2** sunspots  
**NT1** stellar flares  
**NT2** solar flares  
**NT1** stellar winds  
**NT2** solar wind  
*RT* cosmic radiation  
*RT* stars  
*RT* stellar radiation

### STELLAR ATMOSPHERES

*For the Sun use SOLAR ATMOSPHERE or one of its NTs.*

BT1 atmospheres  
**NT1** solar atmosphere  
**NT2** chromosphere  
**NT2** heliosphere  
**NT2** photosphere  
**NT2** solar corona  
**NT1** stellar chromospheres  
**NT1** stellar coronae  
**NT2** solar corona  
**NT1** stellar magnetospheres  
*RT* stars  
*RT* starspots

### stellar burning

*INIS: 1978-08-30; ETDE: 1978-10-19*  
 USE star burning

### STELLAR CHROMOSPHERES

*INIS: 1984-11-30; ETDE: 1984-12-27*  
 \*BT1 stellar atmospheres

### STELLAR CORONAE

*INIS: 1984-02-22; ETDE: 1984-03-06*  
*For the Sun use SOLAR CORONA.*  
*UF* coronae (stellar)  
 \*BT1 stellar atmospheres  
**NT1** solar corona

### STELLAR FLARES

*For the Sun use SOLAR FLARES.*  
**BT1** stellar activity  
**NT1** solar flares  
*RT* stars  
*RT* starspots  
*RT* stellar winds

### STELLAR MAGNETOSPHERES

*UF* magnetospheres (stellar)  
 \*BT1 stellar atmospheres  
*RT* magnetic stars

### STELLAR RADIATION

*INIS: 1976-02-11; ETDE: 1975-07-29*  
**BT1** radiations  
**NT1** solar radiation  
**NT2** diffuse solar radiation  
**NT2** direct solar radiation  
**NT2** solar particles  
**NT3** solar alpha particles  
**NT3** solar electrons  
**NT3** solar neutrinos  
**NT3** solar neutrons  
**NT3** solar protons  
**NT2** solar radiowave radiation  
*RT* cosmic radiation  
*RT* stellar activity

### stellar spots

*INIS: 1984-02-22; ETDE: 1984-03-06*  
 USE starspots

### STELLAR WINDS

*For the Sun use SOLAR WIND.*  
*SF* mass loss  
**BT1** stellar activity  
**NT1** solar wind  
*RT* stars  
*RT* stellar flares

### STELLARATOR MODEL C

\*BT1 stellarators

### STELLARATOR TYPE REACTORS

*INIS: 1995-01-16; ETDE: 1976-09-15*  
**BT1** thermonuclear reactors  
*RT* stellarators

### STELLARATORS

1996-07-18  
 (CLASP DEVICE, PULSATOR  
 STELLARATOR, TOR DEVICES, and W  
 STELLARATORS have been valid ETDE  
 descriptors.)

*UF* clasp device  
*UF* pulsator stellarator  
*UF* tor devices  
 \*BT1 closed plasma devices  
**NT1** cleo stellarator  
**NT1** heliac stellarators  
**NT2** h-1 heliac  
**NT2** hsx stellarator  
**NT2** sheila heliac  
**NT2** tj-ii heliac  
**NT1** heliotron-e stellarator  
**NT1** ims stellarator

**NT1** jipp stellarator  
**NT1** jippt-2 device  
**NT1** l-2 stellarator  
**NT1** proto-cleo stellarators  
**NT1** sirius device  
**NT1** stellarator model c  
**NT1** torsatron stellarators  
   **NT2** atf torsatron  
   **NT2** chs torsatron  
   **NT2** tj-iu torsatron  
   **NT2** vint torsatron  
**NT1** uragan stellarator  
**NT1** wega stellarator  
**NT1** wendelstein-2b stellarator  
**NT1** wendelstein-7 stellarator  
*RT* banana regime  
*RT* divertors  
*RT* kruskal limit  
*RT* magnetic surfaces  
*RT* marfe  
*RT* mode rational surfaces  
*RT* pfirsch-schlueter regime  
*RT* plasma radial profiles  
*RT* sawtooth oscillations  
*RT* stellarator type reactors

**STELLITE**

1996-11-13

*UF* alloy-co62cr28mo6ni3  
*UF* alloy-co64cr29w4  
*UF* alloy-co66cr26w6  
*UF* alloy-hs-21  
*UF* haynes stellite no 21  
*UF* stellite 156  
**\*BT1** cobalt base alloys  
**NT1** alloy-co54cr20w15ni10  
   **NT2** alloy-hs-25  
   **NT2** haynes 25 alloy  
**NT1** alloy-co60cr30w4  
   **NT2** stellite 6  
**NT1** alloy-hs-31

**stellite 156**

INIS: 1996-07-17; ETDE: 1978-10-30

(Until July 1996 this was a valid descriptor.)

*USE* chromium alloys  
*USE* stellite  
*USE* tungsten alloys

**STELLITE 6**

INIS: 1993-10-03; ETDE: 1978-10-30

*UF* alloy-hs-6  
*UF* stooody  
**\*BT1** alloy-co60cr30w4

**stellite 6 (deloro)**

INIS: 1996-11-13; ETDE: 1984-07-10

*USE* deloro stellite 6**stem (plant)***USE* plant stems**STEM CELLS**

**\*BT1** somatic cells  
*RT* blood formation  
*RT* bone marrow  
*RT* colony forming units  
*RT* spermatogenesis

**STEMMING MATERIALS**

INIS: 2000-04-12; ETDE: 1979-08-08

**BT1** materials  
*RT* boreholes  
*RT* grouting

**STENDAL-1 REACTOR**

INIS: 1986-08-19; ETDE: 1986-09-05

Stendal, Federal Republic of Germany.

**\*BT1** wwer type reactors**stepanov method**

INIS: 2000-04-12; ETDE: 1980-02-11

*SEE* inverted stepanov method**stepper motors**

2006-07-03

*Electric motors which turn through a certain angle, e.g. 90 deg, when a pulsed signal is applied.*

*SEE* electric motors**STEREOCHEMISTRY**

*RT* enantiomorphs  
*RT* isomers  
*RT* ligands  
*RT* molecular structure  
*RT* optical activity  
*RT* racemates  
*RT* racemization

**STERILE INSECT RELEASE**

*RT* agriculture  
*RT* insect dispersal  
*RT* pest control  
*RT* radiosterilization  
*RT* sterile male technique  
*RT* sterility  
*RT* sterilization

**STERILE MALE TECHNIQUE**

*RT* agriculture  
*RT* insect dispersal  
*RT* insects  
*RT* mass rearing  
*RT* parasites  
*RT* pest control  
*RT* radiosterilization  
*RT* sterile insect release  
*RT* sterilization

**STERILITY**

*RT* fertility  
*RT* genetic control  
*RT* reproductive disorders  
*RT* sterile insect release

**STERILIZATION**

*UF* disinfection  
**NT1** radiosterilization  
   **NT2** radappertization  
*RT* bacterial spores  
*RT* chemosterilants  
*RT* disinfestation  
*RT* food  
*RT* germicides  
*RT* grain disinfestation  
*RT* inactivation  
*RT* pasteurization  
*RT* preservation  
*RT* sterile insect release  
*RT* sterile male technique

**STERLING-1 REACTOR**

*Rochester Gas and Electric Corp., Oswego, New York, USA. Canceled in 1980 before construction began.*

**\*BT1** pwr type reactors**STERLING-2 REACTOR**

2000-04-12

*Rochester Gas and Electric Corp., Oswego, New York, USA. Canceled in 1980 before construction began.*

**\*BT1** pwr type reactors**STERLING EVENT****BT1** vela project**STERN-GERLACH EXPERIMENT**

*RT* beams  
*RT* measuring methods  
*RT* spin orientation

**STERNHEIMER FORMULA***RT* multipoles**STEROID HORMONES**

**BT1** hormones  
**NT1** androgens  
   **NT2** androstenedione  
   **NT2** androsterone  
   **NT2** hydroxyandrostenedione  
   **NT2** testosterone  
**NT1** corticosteroids  
   **NT2** glucocorticoids  
     **NT3** corticosterone  
     **NT3** cortisone  
     **NT3** dexamethasone  
     **NT3** hydrocortisone  
     **NT3** prednisolone  
     **NT3** prednisone  
   **NT2** mineralocorticoids  
     **NT3** aldosterone  
**NT1** estrogens  
   **NT2** estradiol  
   **NT2** estriol  
   **NT2** estrone  
**NT1** progesterone  
*RT* adrenal hormones

**STEROIDS**

**BT1** organic compounds  
**NT1** androstanes  
   **NT2** androgens  
     **NT3** androstenedione  
     **NT3** androsterone  
     **NT3** hydroxyandrostenedione  
     **NT3** testosterone  
**NT1** estranes  
   **NT2** estradiol  
   **NT2** estriol  
   **NT2** estrone  
**NT1** pregnanes  
   **NT2** corticosteroids  
     **NT3** glucocorticoids  
       **NT4** corticosterone  
       **NT4** cortisone  
       **NT4** dexamethasone  
       **NT4** hydrocortisone  
       **NT4** prednisolone  
       **NT4** prednisone  
     **NT3** mineralocorticoids  
       **NT4** aldosterone  
   **NT2** hydroxypregnenone  
   **NT2** progesterone  
**NT1** sterols  
   **NT2** bile acids  
     **NT3** cholic acid  
   **NT2** cholesterol  
   **NT2** ergosterol  
   **NT2** sitosterol  
*RT* cardiotonics  
*RT* hormones  
*RT* urinary ketosteroids

**STEROLS**

1996-10-23

*UF* lanolin  
*UF* wool fat  
**\*BT1** hydroxy compounds  
**\*BT1** steroids  
**NT1** bile acids  
   **NT2** cholic acid  
**NT1** cholesterol  
**NT1** ergosterol  
**NT1** sitosterol

**stes**

INIS: 2000-04-12; ETDE: 1982-05-24

*USE* seasonal thermal energy storage

**STF REACTOR**

INIS: 1977-06-13; ETDE: 1976-11-17

ANL, Argonne, Illinois, USA.

UF safety test facility reactor

\*BT1 air cooled reactors

\*BT1 fast reactors

\*BT1 research reactors

\*BT1 test reactors

**STH**

UF growth hormone

UF somatotropic hormone

\*BT1 pituitary hormones

RT acromegaly

RT anabolism

RT growth

RT hpl

RT somatostatin

**stiffness**

INIS: 1984-04-04; ETDE: 2002-06-13

USE flexibility

**stilbamidine**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE amidines

**STILBENE**

UF 1,2-diphenylethylene

\*BT1 aromatics

\*BT1 hydrocarbons

RT organic crystal phosphors

RT stilbestrol

**STILBESTROL**

\*BT1 polyphenols

RT estrogens

RT stilbene

**still gas**

INIS: 2000-04-12; ETDE: 1979-12-10

USE refinery gases

**STILLAGE**

INIS: 2000-04-12; ETDE: 1980-11-25

The mash from an alcoholic fermentation after removal of the alcohol in a still.

\*BT1 organic wastes

RT distillation

RT distillers dried grains

RT fermentation

RT waste product utilization

**stilton-hushed echo event**

INIS: 2000-04-12; ETDE: 1975-09-11

USE bedrock project

**stimulants (central nervous system)**

INIS: 1993-11-09; ETDE: 1981-04-20

USE analeptics

**STIMULATED EMISSION**

1999-10-14

BT1 emission

BT1 energy-level transitions

NT1 superradiance

RT einstein coefficients

RT electrical pumping

RT electron beam pumping

RT gasers

RT lasers

RT masers

RT nuclear pumping

RT optical pumping

**stimulated emission devices**

INIS: 2000-01-06; ETDE: 1981-08-21

SEE gasers

SEE lasers

SEE masers

**STIMULATION**

1999-04-16

UF growth stimulation

NT1 well stimulation

NT2 explosive stimulation

RT hormones

RT metabolic activation

RT mitogens

RT stimuli

**stimulation (explosive)**

INIS: 1975-08-22; ETDE: 2002-06-13

USE explosive stimulation

**STIMULI**

RT bioelectricity

RT stimulation

**STIR REACTOR**

Atomics International Div., Rockwell

International, Santa Susana, California, USA.

Shut down in 1972.

UF shield test reactor

UF str reactor (shield test)

\*BT1 enriched uranium reactors

\*BT1 hydride moderated reactors

\*BT1 pool type reactors

\*BT1 thermal reactors

**STIRLING CYCLE**

BT1 thermodynamic cycles

RT stirling engines

RT thermodynamics

**STIRLING ENGINES**

Engines that operate on the stirling

thermodynamic cycle.

\*BT1 heat engines

RT aaps

RT regeneration

RT regenerators

RT solar heat engines

RT stirling cycle

**STIRRING**

RT mixing

RT turbulence

**STISHOVITE**

INIS: 2000-04-12; ETDE: 1977-10-20

A mineral consisting essentially of silicon dioxide.

\*BT1 oxide minerals

RT silicon oxides

**stm**

INIS: 2000-04-12; ETDE: 1999-09-09

USE scanning tunneling microscopy

**STOCHASTIC COOLING**

INIS: 1981-08-31; ETDE: 1979-10-23

Gradual reduction of emittance of coasting charged-particle beams by feedback sensing and correcting statistical fluctuations of beam position or momentum.

BT1 beam cooling

NT1 momentum cooling

**stochastic momentum cooling**

INIS: 1982-04-13; ETDE: 1982-05-07

USE momentum cooling

**STOCHASTIC PROCESSES**

NT1 markov process

RT chaos theory

RT chapman-kolmogorov equation

RT gaussian processes

RT monte carlo method

RT statistics

**STOCKBARGER METHOD**

BT1 crystal growth methods

RT crystal growth

**stockholm r-1 reactor**

USE r-1 reactor

**STOCKPILES**

1999-07-12

(Until July 1999 this information was indexed by INVENTORIES.)

RT reserves

**stocks**

INIS: 2000-04-12; ETDE: 1979-05-02

USE inventories

**STOERMER THEORY**

RT charged particles

RT magnetic fields

**STOICHIOMETRY**

1986-05-26

(Prior to June 1986 CHEMICAL

COMPOSITION was used for this concept.)

RT chemical composition

RT chemical reactions

RT chemistry

**STOKERS**

INIS: 1992-03-16; ETDE: 1976-09-14

Mechanical devices used in boilers or furnaces for feeding coal, removing refuse, controlling air supply, and mixing with combustibles for efficient combustion.

\*BT1 fuel feeding systems

RT boilers

RT burners

RT coal

RT furnaces

**STOKES LAW**

RT viscous flow

**STOKES PARAMETERS**

RT polarization

**STOMACH**

UF rumen

\*BT1 gastrointestinal tract

\*BT1 organs

RT gastrectomy

RT gastric acid

RT gastrin

RT intrinsic factor

RT pepsin

RT vomiting

**STOMATA**

INIS: 1992-09-04; ETDE: 1976-01-07

BT1 openings

RT plants

RT transpiration

**stone and webster coal solution gasification process**

INIS: 2000-04-12; ETDE: 1976-08-24

USE coal gasification

**stone and webster gasification process**

INIS: 2000-04-12; ETDE: 1976-08-04

Process for production of low-sulfur fuels from coal by stepwise addition of hydrogen to coal. Enough hydrogen is added in the first step to convert coal to liquids, which are then hydrogasified to methane, ethane, and aromatic liquid products.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**STONE AND WEBSTER IONICS PROCESS**

2000-04-12

Desulfurization process using aqueous caustic soda solution to absorb sulfur dioxide; solution is regenerated in electrolytic cells.

\*BT1 desulfurization

**STONE METEORITES**

BT1 meteorites

NT1 achondrites

NT1 chondrites

RT rocks

**stone-webster reference pwr**

INIS: 1984-06-21; ETDE: 2002-06-13

USE swessar standard plant

**stoddy**

INIS: 2000-04-12; ETDE: 1978-12-20

USE stellite 6

**stopping (particle absorption)**

USE absorption

**STOPPING POWER**

Includes the concepts of total atomic, total linear, and total mass stopping power.

RT absorption

RT atomic number

RT density

RT energy losses

RT range

**stoppings (ventilation barriers)**

1996-04-18

USE ventilation barriers

**STOR-M TOKAMAK**

INIS: 1999-07-26; ETDE: 1999-09-03

Saskatchewan Torus-Modified.

\*BT1 tokamak devices

**STORAGE**

1996-04-16

NT1 dry storage

NT1 energy storage

NT2 cold storage

NT2 compressed air energy storage

NT2 flywheel energy storage

NT2 heat storage

NT3 latent heat storage

NT3 seasonal thermal energy storage

NT3 sensible heat storage

NT3 thermochemical heat storage

NT2 magnetic energy storage

NT3 superconducting magnetic energy storage

NT2 off-peak energy storage

NT2 photochemical energy storage

NT2 pumped storage

NT1 hydrogen storage

NT1 spent fuel storage

NT2 away-from-reactor storage

NT2 monitored retrievable storage

NT1 underground storage

NT1 waste storage

NT2 radioactive waste storage

NT3 monitored retrievable storage

NT1 wet storage

RT inventories

RT storage facilities

RT stowage

RT transport

RT water reservoirs

**storage (spent fuel)**

2000-04-12

USE spent fuel storage

**storage (wastes)**

2000-04-12

USE waste storage

**storage batteries**

INIS: 2000-04-12; ETDE: 1976-05-13

USE electric batteries

**storage batteries (lead-acid)**

INIS: 1992-05-04; ETDE: 1976-05-13

USE lead-acid batteries

**storage devices (data)**

USE memory devices

**STORAGE FACILITIES**

INIS: 1984-01-18; ETDE: 1977-01-28

UF facilities (storage)

UF tank farms

RT energy facilities

RT floating roof tanks

RT inventories

RT maintenance facilities

RT natural gas

RT nuclear facilities

RT radioactive waste facilities

RT spent fuel storage

RT spent fuels

RT storage

RT terminal facilities

RT wastes

**STORAGE LIFE**

UF market life

RT food processing

RT lifetime

RT radiopreservation

RT sprout inhibition

**storage pools (fuel)**

INIS: 1985-01-17; ETDE: 2002-06-13

USE fuel storage pools

**STORAGE RINGS**

1996-07-08

(Prior to August 1996 PRECETRON STORAGE RING was a valid ETDE descriptor.)

UF precetron storage ring

UF rings (storage)

NT1 adone

NT1 advanced light source

NT1 advanced photon source

NT1 astrid storage ring

NT1 beijing electron-positron collider

NT1 bessy storage ring

NT1 brookhaven rhic

NT1 celsius storage ring

NT1 cern cesar

NT1 cern isr

NT1 cern lhc

NT1 cesr storage ring

NT1 cosy storage ring

NT1 dci orsay storage ring

NT1 doris storage ring

NT1 escar storage ring

NT1 esr storage ring

NT1 euterpe storage ring

NT1 hera storage ring

NT1 indus-1

NT1 indus-2

NT1 isabelle storage rings

NT1 lep storage rings

NT1 lnl storage ring

NT1 nap-m storage ring

NT1 orsay storage rings

NT1 pampus storage ring

NT1 pep storage rings

NT2 epic storage ring

NT1 petra storage ring

NT1 popae storage ring

NT1 serpukhov tevatron

NT1 spear

NT1 spring-8 storage ring

NT1 superconducting super collider

NT1 surf ii storage ring

NT1 tristan storage rings

NT1 tsr storage ring

NT1 vep-1

NT1 vepp-2

NT1 vepp-3

NT1 vepp-4

RT accelerators

RT synchrotron radiation sources

**storage tubes**

USE electron tubes

USE image storage tubes

**STORED ENERGY**

BT1 energy

\*BT1 thermodynamic properties

RT tank circuits

**stores**

INIS: 2000-04-12; ETDE: 1981-01-09

USE commercial buildings

**STORM DOORS**

INIS: 2000-04-12; ETDE: 1977-06-21

\*BT1 doors

RT thermal insulation

RT weatherization

**STORM WINDOWS**

INIS: 2000-04-12; ETDE: 1977-06-21

\*BT1 windows

RT thermal insulation

RT weatherization

**STORMS**

INIS: 1992-03-31; ETDE: 1975-11-26

NT1 hurricanes

NT1 monsoons

NT1 tornadoes

RT atmospheric precipitations

RT cloud cover

RT clouds

RT lightning

RT meteorology

RT natural disasters

RT rain

RT runoff

RT snow

RT water waves

RT wave forces

RT weather

RT wind loads

**stover**

INIS: 1991-12-11; ETDE: 1979-04-11

(This concept in ETDE should be indexed by the coordination of the descriptor AGRICULTURAL WASTES with a descriptor indicating the field crop.)

USE agricultural wastes

**STOVES**

INIS: 1993-02-15; ETDE: 1976-08-04

UF stoves (coal burning)

UF stoves (electric)

UF stoves (gas burning)

UF stoves (wood burning)

UF wood stoves

\*BT1 appliances

RT coal burning appliances

RT ovens

RT wood burning appliances

**stoves (coal burning)**

INIS: 1993-02-15; ETDE: 2001-03-07

USE coal burning appliances

USE stoves

**stoves (electric)**

INIS: 1993-02-15; ETDE: 2001-03-07

USE electric appliances

USE stoves

**stoves (gas burning)**

INIS: 1993-02-15; ETDE: 2001-03-07

USE gas appliances

USE stoves

**stoves (wood burning)**

INIS: 1993-02-15; ETDE: 2001-03-07

USE stoves

USE wood burning appliances

**STOWAGE**

INIS: 2000-04-12; ETDE: 1979-12-17

*Positioning for safekeeping, e.g., heliostat inversion during hailstorms.*

RT positioning

RT storage

**STOWING**

INIS: 2000-04-12; ETDE: 1979-06-06

UF packing

RT backfilling

RT strata control

RT underground mining

**STP-3M DEVICE**

INIS: 1993-03-10; ETDE: 1993-04-16

*Nagoya University, Japan.*

\*BT1 toroidal screw pinch devices

**str reactor (shield test)**

USE stir reactor

**str reactor (split table)**

USE split table reactor

**STRAHLENSCHUTZKOMMISSION**

INIS: 1978-11-24; ETDE: 1980-07-23

\*BT1 german fr organizations

RT radiation protection

**STRAIGHT-LINE PATH****APPROXIMATION**

INIS: 1975-09-16; ETDE: 1975-10-01

*Assumes that transverse-momentum transfer is small in high-energy particle interactions.*

\*BT1 approximations

RT eikonal approximation

RT linear momentum transfer

RT particle interactions

RT transverse momentum

**STRAIN AGING**

BT1 aging

RT cold working

**STRAIN GAGES**

(From September 1976 till March 1997

TENSIOLOGY was a valid ETDE descriptor.)

UF gages (strain)

SF tensiometers

BT1 measuring instruments

RT extensometers

RT mechanical tests

RT strains

**STRAIN HARDENING**

UF shock wave hardening

UF shock-wave hardening

UF work hardening

BT1 hardening

RT cold working

RT strains

**STRAIN RATE**

INIS: 1986-05-23; ETDE: 1976-01-07

RT static loads

RT strains

RT tensile properties

**STRAIN SOFTENING**

1977-07-05

*A softening of a metal exhibited during deformation. It can occur at either high or low temperatures, depending upon the metal.*

UF work softening

RT strains

**STRAINS**

RT deformation

RT elasticity

RT poisson ratio

RT ratcheting

RT strain gages

RT strain hardening

RT strain rate

RT strain softening

RT stresses

RT tensile properties

**strait event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**STRAIT OF HORMUZ**

INIS: 1992-06-04; ETDE: 1980-10-27

\*BT1 persian gulf

**STRAND BREAKS**

1998-02-16

BT1 dna damages

RT biological radiation effects

RT chemical radiation effects

RT decomposition

RT dna

RT dna repair

RT molecular biology

RT pyrimidine dimers

RT radiation effects

RT radiation injuries

RT rna

**strange baryons**

INIS: 1987-12-21; ETDE: 1988-03-16

USE hyperons

**STRANGE MESONS**

INIS: 1995-08-07; ETDE: 1988-02-02

UF k-1240 resonances

UF k-1871 resonances

UF k\*resonances

UF l-1770 resonances

\*BT1 mesons

\*BT1 strange particles

NT1 b s mesons

NT1 d s-2536 mesons

NT1 d s mesons

NT1 d\*s-2110 mesons

NT1 k-1460 mesons

NT1 k-1830 mesons

NT1 k\*-1410 mesons

NT1 k\*-1680 mesons

NT1 k\*-892 mesons

NT1 k\*-0-1430 mesons

NT1 k\*2-1430 mesons

NT1 k\*3-1780 mesons

NT1 k\*4-2045 mesons

NT1 k1-1270 mesons

NT1 k1-1400 mesons

NT1 k2-1770 mesons

NT1 k2-1820 mesons

NT1 kaons

NT2 antikaons

NT3 antikaons neutral

NT2 cosmic kaons

NT2 kaons minus

NT2 kaons neutral

NT3 antikaons neutral

NT3 kaons neutral long-lived

NT3 kaons neutral short-lived

NT2 kaons plus

**STRANGE PARTICLES**

1995-10-04

BT1 elementary particles

NT1 hyperons

NT2 antihyperons

NT3 antilambda particles

NT3 antiomega particles

NT3 antisigma particles

NT3 antixi particles

NT2 lambda baryons

NT3 lambda-1405 baryons

NT3 lambda-1520 baryons

NT3 lambda-1600 baryons

NT3 lambda-1670 baryons

NT3 lambda-1690 baryons

NT3 lambda-1800 baryons

NT3 lambda-1810 baryons

NT3 lambda-1820 baryons

NT3 lambda-1830 baryons

NT3 lambda-1890 baryons

NT3 lambda-2100 baryons

NT3 lambda-2110 baryons

NT3 lambda particles

NT4 antilambda particles

NT2 lambda-n-2130 dibaryons

NT2 omega baryons

NT3 omega-2250 baryons

NT3 omega particles

NT4 antiomega particles

NT4 omega minus particles

NT2 sigma baryons

NT3 sigma-1385 baryons

NT3 sigma-1660 baryons

NT3 sigma-1670 baryons

NT3 sigma-1750 baryons

NT3 sigma-1770 baryons

NT3 sigma-1775 baryons

NT3 sigma-1915 baryons

NT3 sigma-1940 baryons

NT3 sigma-2030 baryons

NT3 sigma-2455 baryons

NT3 sigma particles

NT4 antisigma particles

NT4 sigma minus particles

NT4 sigma neutral particles

NT4 sigma plus particles

NT2 xi baryons

NT3 xi-1530 baryons

NT3 xi-1690 baryons

NT3 xi-1820 baryons

NT3 xi-1950 baryons

NT3 xi-2030 baryons

NT3 xi-2250 baryons

NT3 xi-2500 baryons

NT3 xi particles

NT4 antixi particles

NT4 xi minus particles

NT4 xi neutral particles

NT2 z\*baryons

NT1 s quarks

NT2 s antiquarks

NT1 spurious

NT1 strange mesons

NT2 b s mesons

NT2 d s-2536 mesons

NT2 d s mesons

NT2 d\*s-2110 mesons

NT2 k-1460 mesons

NT2 k-1830 mesons

NT2 k\*-1410 mesons

**NT2** k\*-1680 mesons  
**NT2** k\*-892 mesons  
**NT2** k\*0-1430 mesons  
**NT2** k\*2-1430 mesons  
**NT2** k\*3-1780 mesons  
**NT2** k\*4-2045 mesons  
**NT2** k1-1270 mesons  
**NT2** k1-1400 mesons  
**NT2** k2-1770 mesons  
**NT2** k2-1820 mesons  
**NT2** kaons  
**NT3** antikaons  
**NT4** antikaons neutral  
**NT3** cosmic kaons  
**NT3** kaons minus  
**NT3** kaons neutral  
**NT4** antikaons neutral  
**NT4** kaons neutral long-lived  
**NT4** kaons neutral short-lived  
**NT3** kaons plus  
*RT* strangeness  
*RT* strangeonium

**STRANGENESS**

*BT1* particle properties  
*RT* gauge invariance  
*RT* gell-mann theory  
*RT* strange particles  
*RT* strangeness analog resonances

**STRANGENESS ANALOG****RESONANCES**

*UF* analog resonances (*strangeness*)  
*RT* energy levels  
*RT* nuclear reactions  
*RT* strangeness

**STRANGENESS-EXCHANGE****REACTIONS**

*INIS: 1981-11-27; ETDE: 1979-04-12*  
*Nuclear reactions in which strangeness of reactants is altered.*  
*BT1* nuclear reactions

**STRANGEONIUM**

*INIS: 1995-10-04; ETDE: 1988-02-01*  
*A bound state of strange and anti strange quarks.*  
*\*BT1* mesons  
*BT1* quarkonium  
**NT1** f2 prime-1525 mesons  
*RT* s quarks  
*RT* strange particles

**STRASBOURG-CRONENBOURG REACTOR**

*Univ. of Strasbourg Reactor Dept., Strasbourg, France.*  
*\*BT1* argon type reactors  
*\*BT1* training reactors

**STRATA CONTROL**

*INIS: 1993-02-16; ETDE: 1978-05-03*  
*Measures taken to control movement of geologic strata.*  
*UF* ground control  
*RT* caving  
*RT* rock mechanics  
*RT* roof bolts  
*RT* slope stability  
*RT* stowing  
*RT* strata movement

**STRATA MOVEMENT**

*INIS: 1992-08-28; ETDE: 1978-05-03*  
*RT* caving  
*RT* geologic strata  
*RT* ground motion  
*RT* ground uplift  
*RT* rock falls  
*RT* rock mechanics

*RT* strata control  
*RT* underground mining

**strategic defense initiative**

*INIS: 1994-09-22; ETDE: 1984-11-29*  
*USE* ballistic missile defense

**STRATEGIC PETROLEUM****RESERVE**

*INIS: 1999-10-08; ETDE: 1977-10-20*  
*\*BT1* reserves  
*RT* energy supplies  
*RT* petroleum  
*RT* underground storage

**STRATEGIC POINTS**

*Points in the fuel cycle at which measurement of the flow of nuclear material would be useful for safeguards purposes.*  
*RT* material balance area  
*RT* safeguards

**STRATIFICATION**

*RT* geologic strata  
*RT* layers  
*RT* stratified charge engines

**STRATIFIED CHARGE ENGINES**

*2000-04-12*  
*\*BT1* internal combustion engines  
*RT* automobiles  
*RT* combustion  
*RT* fuel injection systems  
*RT* stratification

**STRATIGRAPHY**

*That branch of geology which treats of the formation, composition, sequence, and correlation of the stratified rocks as parts of the earth's crust.*  
*BT1* geology  
*RT* geologic strata  
*RT* geologic structures  
*RT* geomorphology  
*RT* layers  
*RT* palynology  
*RT* site characterization

**STRATOSPHERE**

*UF* high altitude (*stratosphere*)  
*BT1* earth atmosphere  
*RT* global fallout  
*RT* magnetic rigidity  
*RT* ozone layer  
*RT* supersonic transport  
*RT* tropopause

**STRAW**

*INIS: 1991-12-11; ETDE: 1978-12-11*  
*RT* agricultural wastes  
*RT* plant stems

**STRAWBERRIES**

*\*BT1* berries  
*\*BT1* rosaceae

**STRAY RADIATION**

*BT1* radiations  
*RT* scattering  
*RT* shielding

**STREAK CAMERAS**

*INIS: 1986-10-29; ETDE: 1984-09-21*  
*Cameras which produce two-dimensional images where time is one coordinate.*  
*BT1* cameras  
*RT* radiation detectors  
*RT* streak photography

**STREAK PHOTOGRAPHY**

*BT1* photography  
*RT* streak cameras

**STREAMER SPARK CHAMBERS**

*\*BT1* spark chambers

**streaming (radiation)**

*USE* radiation streaming

**STREAMS**

*INIS: 1999-03-15; ETDE: 1976-04-19*  
*(Until March 1999 this concept was indexed in INIS by RIVERS.)*  
*UF* brooks  
*UF* creeks  
*\*BT1* rivers  
*RT* water currents  
*RT* watersheds

**streets**

*1992-03-05*  
*USE* roads

**strelkinite**

*INIS: 2000-04-12; ETDE: 1975-12-16*  
*(Prior to August 1996 this was a valid ETDE descriptor.)*  
*USE* oxide minerals  
*USE* uranium minerals

**strength (compression)**

*USE* compression strength

**strength (flexural)**

*USE* flexural strength

**strength (fracture)**

*USE* fracture properties

**strength (impact)**

*USE* impact strength

**strength (shear)**

*USE* shear properties

**strength (tensile)**

*USE* tensile properties

**strength (ultimate)**

*1980-05-14*  
*USE* ultimate strength

**strength (yield)**

*USE* yield strength

**STRENGTH FUNCTIONS**

*BT1* functions  
*RT* energy levels  
*RT* oscillator strengths

**streptidine kinase**

*INIS: 2000-04-12; ETDE: 1981-04-20*  
*(Prior to March 1997 this was a valid ETDE descriptor.)*  
*USE* fibrinolytic agents  
*USE* phosphotransferases

**STREPTOCOCCAL PROTEINASE**

*INIS: 1984-01-18; ETDE: 1981-01-12*  
*Code number 3.4.22.10.*  
*UF* streptokinase  
*\*BT1* sh-proteinases  
*RT* fibrinolysis  
*RT* streptococcus  
*RT* thrombosis

**STREPTOCOCCUS**

*\*BT1* bacteria  
*RT* streptococcal proteinase

**streptokinase**

*1984-01-18*  
*(Prior to January 1984 this was a valid descriptor, and older material is so indexed.)*  
*USE* streptococcal proteinase



**STREPTOMYCES**

- \*BT1 bacteria
- RT streptomycin

**STREPTOMYCIN**

- \*BT1 antibiotics
- RT streptomycins
- RT tuberculosis

**STREPTOZOCIN**

INIS: 2000-03-29; ETDE: 1981-04-20

- UF streptozotocin
- UF streptozotocin 7

- \*BT1 antibiotics
- \*BT1 antineoplastic drugs

**streptozotocin**

2000-03-29

ANTIBIOTICS, ANTINEOPLASTIC DRUGS.

(Prior to March 2000, this concept was indexed by SACCHARIDES and NITROSO COMPOUNDS in combination with a descriptor for the application, e.g.)

- USE streptozocin

**streptozotocin 7**

2000-04-12

(Prior to April 1981, this concept in ETDE was indexed by ANTIBIOTICS, NITROSO COMPOUNDS, and SACCHARIDES.)

- USE streptozocin

**stress (biological)**

- USE biological stress

**STRESS ANALYSIS**

- RT homalite
- RT photoelasticity
- RT stress intensity factors
- RT stresses

**stress concentration factors**

INIS: 1978-08-14; ETDE: 2002-06-13

- USE stress intensity factors

**STRESS CORROSION**

- \*BT1 corrosion

**STRESS INTENSITY FACTORS**

INIS: 1978-08-14; ETDE: 1978-10-19

- UF stress concentration factors
- RT crack propagation
- RT cracks
- RT defects
- RT fracture mechanics
- RT fracture properties
- RT fractures
- RT mechanical tests
- RT stress analysis

**STRESS RELAXATION**

- UF relaxation (stress)
- UF relieving (stress)
- UF stress relieving
- BT1 relaxation
- RT annealing
- RT creep
- RT heat treatments
- RT stresses

**stress relieving**

- USE stress relaxation

**STRESSES**

For mechanical stress only; see also

BIOLOGICAL STRESS.

- UF loads (stresses)
- NT1 flow stress
- NT1 residual stresses
- NT1 thermal stresses
- RT dilatancy
- RT dynamic loads

- RT materials testing
- RT mechanical properties
- RT mechanical tests
- RT pore pressure
- RT ratcheting
- RT s-n diagram
- RT shear
- RT static loads
- RT strains
- RT stress analysis
- RT stress relaxation
- RT tensile properties
- RT thermoelasticity
- RT wind loads

**stretch model**

- USE aligned coupling scheme

**STRETFORD PROCESS**

2000-04-12

Process for sweetening natural and industrial gases by complete removal of hydrogen sulfide and partial removal of organic sulfur compounds; gas is washed with aqueous solution containing sodium carbonate, sodium vanadate, anthraquinonedisulfonic acid.

- \*BT1 desulfurization

**STRIATIONS**

- RT electric discharges

**STRING MODELS**

Treating the interactions of extended particles through breaking and connection of strings.

- \*BT1 extended particle model
- \*BT1 quark model
- NT1 superstring models
- RT particle interactions
- RT particle structure
- RT quantum chromodynamics
- RT string theory

**STRING THEORY**

2007-08-13

Attempt to unify all the fundamental interactions in nature; it has five components: one bosonic string theory and four superstring theories.

- BT1 m-theory
- NT1 superstring theory
- RT anti de sitter space
- RT branes
- RT de sitter space
- RT field theories
- RT quark matter
- RT string models

**strip mining**

INIS: 1975-10-09; ETDE: 2002-02-27

- USE surface mining

**STRIPED BASS**

INIS: 1992-09-08; ETDE: 1978-01-23

- \*BT1 anadromous fishes

**stripper foils**

- USE beam strippers

**strippers**

- USE beam strippers

**STRIPPING**

For nuclear reactions only; for electron stripping use ELECTRON LOSS.

- \*BT1 transfer reactions
- RT butler theory
- RT oppenheimer-phillips process
- RT serber theory

**STRONG-ABSORPTION MODEL**

- \*BT1 nuclear models

**STRONG-COUPLING MODEL**

- \*BT1 particle models
- RT coupling
- RT strong interactions
- RT weak-coupling model

**STRONG INTERACTIONS**

- \*BT1 basic interactions
- NT1 charge-exchange interactions
- NT1 peripheral collisions
- RT annihilation
- RT charge independence
- RT chew-low method
- RT cim model
- RT grand unified theory
- RT hadron-hadron interactions
- RT hadronic particle decay
- RT quark-gluon interactions
- RT rescattering
- RT standard model
- RT strong-coupling model

**strongly damped heavy ion reactions**

INIS: 1993-11-09; ETDE: 2002-06-13

- USE deep inelastic heavy ion reactions

**STRONGLY IONIZED GASES**

*Ionization factor above 10(-4).*

- \*BT1 ionized gases

**STRONTIUM**

- \*BT1 alkaline earth metals

**STRONTIUM 100**

INIS: 1979-04-27; ETDE: 1979-05-25

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 101**

INIS: 1984-06-21; ETDE: 1984-03-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 102**

INIS: 1986-01-21; ETDE: 1985-08-08

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 103**

2007-07-27

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 104**

2007-07-27

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 105**

2007-07-27

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 73**

2007-07-27

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 74**

2007-07-27

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 75**

INIS: 1996-06-17; ETDE: 1996-05-31

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 76**

INIS: 1992-03-26; ETDE: 1992-08-12

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 77**

INIS: 1976-10-29; ETDE: 1976-12-16

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 78**

1976-01-27

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 79**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 80**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 81**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 82**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 83**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes

- \*BT1 seconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 84**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 strontium isotopes

**STRONTIUM 84 TARGET**

ETDE: 1976-07-09

- BT1 targets

**STRONTIUM 85**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 strontium isotopes

**STRONTIUM 86**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 strontium isotopes

**STRONTIUM 86 TARGET**

ETDE: 1976-07-09

- BT1 targets

**STRONTIUM 87**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 strontium isotopes

**STRONTIUM 87 TARGET**

INIS: 1976-03-17; ETDE: 1976-07-12

- BT1 targets

**STRONTIUM 88**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 strontium isotopes

**STRONTIUM 88 TARGET**

ETDE: 1976-07-09

- BT1 targets

**STRONTIUM 89**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 90**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes
- \*BT1 years living radioisotopes
- RT radioisotope generators

**STRONTIUM 90 TARGET**

INIS: 1983-09-01; ETDE: 1976-11-01

- BT1 targets

**STRONTIUM 91**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 92**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei

- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 94**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 96**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 99**

1976-03-17

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM ADDITIONS**

*Alloys containing not more than 1% Sr are listed here.*

- \*BT1 strontium alloys

**STRONTIUM ALLOYS**

1996-07-23

*Alloys containing more than 1% Sr.*

- UF strontium base alloys
- BT1 alloys
- NT1 strontium additions

**strontium base alloys**

1996-07-23

(Until July 1996 this was a valid descriptor.)

- USE strontium alloys

**STRONTIUM BORIDES**

1996-07-23

(From July 1996 to February 2008 STRONTIUM COMPOUNDS + BORIDES was used for this concept.)

- \*BT1 borides
- \*BT1 strontium compounds

**STRONTIUM BROMIDES**

- \*BT1 bromides
- \*BT1 strontium compounds

**STRONTIUM CARBIDES**

- \*BT1 carbides
- \*BT1 strontium compounds

**STRONTIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 strontium compounds

**STRONTIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 strontium compounds

**STRONTIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**STRONTIUM COMPOUNDS**

1996-07-23

- BT1 alkaline earth metal compounds
- NT1 strontium borides
- NT1 strontium bromides
- NT1 strontium carbides
- NT1 strontium carbonates
- NT1 strontium chlorides
- NT1 strontium fluorides
- NT1 strontium hydrides
- NT1 strontium hydroxides
- NT1 strontium iodides
- NT1 strontium nitrates
- NT1 strontium oxides
- NT1 strontium perchlorates
- NT1 strontium phosphates
- NT1 strontium silicates
- NT1 strontium sulfates
- NT1 strontium sulfides
- NT1 strontium titanates
- NT1 strontium tungstates
- NT1 strontium uranates

**STRONTIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 strontium compounds

**STRONTIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 strontium compounds

**STRONTIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 strontium compounds

**STRONTIUM IODIDES**

- \*BT1 iodides
- \*BT1 strontium compounds

**STRONTIUM IONS**

- \*BT1 ions

**STRONTIUM ISOTOPES**

1999-02-01

- \*BT1 alkaline earth isotopes
- NT1 strontium 100
- NT1 strontium 101
- NT1 strontium 102
- NT1 strontium 103
- NT1 strontium 104
- NT1 strontium 105
- NT1 strontium 73
- NT1 strontium 74
- NT1 strontium 75
- NT1 strontium 76
- NT1 strontium 77
- NT1 strontium 78
- NT1 strontium 79
- NT1 strontium 80
- NT1 strontium 81
- NT1 strontium 82
- NT1 strontium 83
- NT1 strontium 84
- NT1 strontium 85
- NT1 strontium 86
- NT1 strontium 87
- NT1 strontium 88

NT1 strontium 89

NT1 strontium 90

NT1 strontium 91

NT1 strontium 92

NT1 strontium 93

NT1 strontium 94

NT1 strontium 95

NT1 strontium 96

NT1 strontium 97

NT1 strontium 98

NT1 strontium 99

RT bone seekers

**STRONTIUM NITRATES**

- \*BT1 nitrates
- \*BT1 strontium compounds

**STRONTIUM OXIDES**

- \*BT1 oxides
- \*BT1 strontium compounds

**STRONTIUM PERCHLORATES**

INIS: 1988-02-02; ETDE: 1977-11-28

- \*BT1 perchlorates
- \*BT1 strontium compounds

**STRONTIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 strontium compounds

**STRONTIUM SILICATES**

- \*BT1 silicates
- \*BT1 strontium compounds

**STRONTIUM SULFATES**

- \*BT1 strontium compounds
- \*BT1 sulfates

**STRONTIUM SULFIDES**

- \*BT1 strontium compounds
- \*BT1 sulfides

**STRONTIUM TITANATES**

INIS: 1990-05-17; ETDE: 1976-09-28

- \*BT1 strontium compounds
- \*BT1 titanates

**STRONTIUM TUNGSTATES**

INIS: 1979-04-27; ETDE: 1976-11-17

- \*BT1 strontium compounds
- \*BT1 tungstates

**STRONTIUM URANATES**

INIS: 1991-09-16; ETDE: 1978-11-14

- \*BT1 strontium compounds
- \*BT1 uranates

**strophanthin**

INIS: 1990-12-07; ETDE: 1984-06-14  
(Prior to December 1990, this was a valid descriptor.)

- USE cardiotonics

**STROPHANTHINS**

INIS: 2000-04-12; ETDE: 1981-04-20

- \*BT1 cardiac glycosides
- NT1 ouabain

**STROPHANTIN**

2000-04-12

- \*BT1 glycosides

**STRUCTURAL BEAMS**

INIS: 2000-04-03; ETDE: 1977-08-24

- UF beams (structural)
- RT building materials
- RT construction

**structural buckling**

- USE deformation

**STRUCTURAL CHEMICAL ANALYSIS**

- UF analysis (structural chemical)

UF sequence analysis

NT1 dna sequencing

RT absorption spectroscopy

RT amino acid sequence

RT chemical analysis

RT coordination valences

RT debye-scherrer method

RT derivatization

RT electron spin resonance

RT extreme ultraviolet spectra

RT infrared spectra

RT laue method

RT magnetic circular dichroism

RT moessbauer effect

RT molecular structure

RT neutron diffraction

RT nuclear magnetic resonance

RT thermal analysis

RT ultraviolet spectra

RT x-ray diffraction

RT x-ray diffractometers

**structural materials**

- USE building materials

**STRUCTURAL MODELS**

UF models (structural)

NT1 mockup

NT2 phantoms

NT1 scale models

RT comparative evaluations

RT functional models

RT hypothesis

RT mathematical models

RT morphology

RT response functions

**structure (crystal)**

- USE crystal structure

**structure (molecular)**

INIS: 2000-04-12; ETDE: 1975-12-16

- USE molecular structure

**STRUCTURE-ACTIVITY RELATIONSHIPS**

INIS: 1984-12-04; ETDE: 1983-11-23

RT biological effects

RT biological functions

RT dynamic function studies

RT enzyme activity

RT molecular structure

RT protein engineering

RT protein structure

**STRUCTURE FACTORS**

INIS: 1981-05-11; ETDE: 1978-12-20

*In macroscopic particle systems, for factors related to intensity of diffracted beam used in structure determination for liquids and solids, as by X-ray diffraction.*

BT1 dimensionless numbers

RT crystal structure

RT liquids

RT solids

**STRUCTURE FUNCTIONS**

*Momentum distribution of constituents within an elementary particle.*

BT1 functions

RT emc effect

RT gribov-lipatov relation

RT particle models

RT particle structure

**structures (buildings)**

- USE buildings

**structures (mechanics)**

- USE mechanical structures

**STRUTINSKY THEORY**

RT fission  
RT nuclear models

**STRYCHNINE**

\*BT1 alkaloids  
\*BT1 indoles

**STSF ASSEMBLY**

*Gulf, San Diego, California, USA. Subcritical Time-of-Flight Spectrum Facility.*  
UF *subcritical time-of-flight spectrum facility*  
\*BT1 subcritical assemblies

**STTFUA**

INIS: 2000-04-12; ETDE: 1981-06-13  
*Solar thermal Test Facility Users Association.*  
RT mstsf  
RT test facilities

**stud welding**

INIS: 1976-03-17; ETDE: 2002-06-13  
USE welding

**studs**

USE fasteners

**studsvik fr-0 reactor**

USE fr-0 reactor

**studsvik r-2 reactor**

USE r-2 reactor

**studsvik r2-0 reactor**

USE r2-0 reactor

**sturgis-floating nuclear power plant**

1993-11-09  
USE mh-1a reactor

**STURM-LIOUVILLE EQUATION**

\*BT1 differential equations  
RT eigenfunctions  
RT green function

**STX DEVICES**

INIS: 1999-03-03; ETDE: 1986-03-04  
*A very low aspect ratio toroidal confinement device that can operate as a tokamak, as a pinch, or as a reversed-field pinch. As a tokamak, the spherical torus confines a plasma that is characterized by high toroidal beta, low poloidal beta, large neutral elongation, high plasma current for a given edge q, and strong paramagnetism.*  
\*BT1 tokamak devices  
RT reverse-field pinch

**STYRENE**

UF *phenylethylene*  
UF *vinylbenzene*  
\*BT1 alkylated aromatics  
\*BT1 hydrocarbons  
RT polystyrene  
RT vinyl monomers

**styrene-divinylbenzene copolymer**

USE polystyrene-dvb

**styrene polymers**

USE polystyrene

**SU-2 GROUPS**

\*BT1 su groups

**SU-3 GROUPS**

\*BT1 su groups  
RT charm particles  
RT higgs model  
RT quantum chromodynamics

**SU-4 GROUPS**

\*BT1 su groups

**SU-5 GROUPS**

\*BT1 su groups  
RT grand unified theory

**SU-6 GROUPS**

\*BT1 su groups

**SU-7 GROUPS**

INIS: 1981-02-27; ETDE: 1981-03-13  
\*BT1 su groups

**SU-8 GROUPS**

INIS: 1976-10-07; ETDE: 1976-11-01  
\*BT1 su groups

**SU-9 GROUPS**

INIS: 1981-02-27; ETDE: 1989-09-18  
\*BT1 su groups

**SU GROUPS**

\*BT1 lie groups  
NT1 su-2 groups  
NT1 su-3 groups  
NT1 su-4 groups  
NT1 su-5 groups  
NT1 su-6 groups  
NT1 su-7 groups  
NT1 su-8 groups  
NT1 su-9 groups  
RT goldstone bosons  
RT instantons  
RT unitary symmetry

**SUBBITUMINOUS COAL**

1992-05-22  
*Coal that is intermediate between bituminous coal and lignite.*  
\*BT1 coal  
RT bituminous coal  
RT lignite

**SUBCELLULAR DISTRIBUTION**

INIS: 1987-04-28; ETDE: 1985-12-13  
BT1 distribution  
RT cell constituents  
RT cell membranes  
RT cell nuclei  
RT lysosomes  
RT mitochondria  
RT ribosomes  
RT ultracentrifugation

**subcellular organelles**

INIS: 2000-04-12; ETDE: 1991-08-21  
USE cell constituents

**subcontractors**

INIS: 1986-07-09; ETDE: 1983-03-23  
USE contractors

**SUBCOOLED BOILING**

UF *local boiling*  
UF *surface boiling*  
\*BT1 boiling

**SUBCOOLING**

BT1 cooling  
RT vapor condensation

**SUBCRITICAL ASSEMBLIES**

UF *exponential piles*  
UF *fast breeder blanket facility (fbbf)*  
UF *neutron multiplier facility*  
UF *sr-ob reactor*  
\*BT1 experimental reactors  
NT1 pse reactor  
NT1 stsf assembly

**subcritical flow**

USE laminar flow

**subcritical time-of-flight spectrum facility**

1993-11-09  
USE stsf assembly

**subcriticality**

INIS: 1979-01-18; ETDE: 1994-08-18  
(Prior to August 1994, this was a valid ETDE descriptor.)  
USE criticality

**SUBCUTANEOUS INJECTION**

\*BT1 injection

**SUBDUCTION ZONES**

INIS: 2000-04-12; ETDE: 1985-08-22  
*Narrow belts in which one lithospheric plate descends under another.*  
UF *benioff zone*  
RT plate tectonics  
RT seismicity

**SUBLETHAL IRRADIATION**

BT1 irradiation  
RT dose-response relationships  
RT lethal irradiation  
RT lethal radiation dose  
RT radiation doses

**SUBLIMATION**

\*BT1 evaporation  
RT refining  
RT separation processes  
RT sublimation cooling  
RT sublimation heat

**SUBLIMATION COOLING**

BT1 cooling  
RT sublimation

**SUBLIMATION HEAT**

UF *heat of sublimation*  
UF *latent heat of sublimation*  
\*BT1 transition heat  
RT ablation  
RT sublimation

**SUBMARINE CANYONS**

INIS: 2000-04-12; ETDE: 1981-10-24  
*Steep valley-like submarine depressions crossing the continental margin.*  
RT continental shelf  
RT continental slope  
RT sea bed  
RT topography

**SUBMARINES**

*Any self-powered underwater craft or towed underwater barges and arrays.*  
UF *underwater vehicles*  
BT1 ships  
RT nuclear ships

**SUBMERGED ARC WELDING**

\*BT1 arc welding

**subsidence (ground)**

INIS: 1982-07-22; ETDE: 1975-10-01  
USE ground subsidence

**subsidies**

INIS: 1982-12-03; ETDE: 1979-05-03  
(Prior to April 1997 this was a valid ETDE descriptor.)  
USE financial incentives

**SUBSONIC FLOW**

BT1 fluid flow  
RT aerodynamics  
RT compressible flow

**substitution equivalent**

INIS: 2000-04-12; ETDE: 1979-05-31  
USE energy substitution equivalent

**substitution techniques**

USE pile replacement techniques

**SUBSTOICHIOMETRY**

RT activation analysis  
RT impurities  
RT isotope dilution  
RT quantitative chemical analysis

**SUBSTRATES**

RT catalyst supports  
RT enzymes  
RT layers  
RT thin films

**subsurface environments**

INIS: 2000-04-12; ETDE: 1985-06-21  
(Prior to August 1992 this was a valid ETDE descriptor.)  
SEE underground

**SUBSURFACE STRUCTURES**

1999-10-15  
RT civil defense  
RT earth-covered buildings  
RT fallout shelters  
RT shelters  
RT tunnels  
RT underground facilities  
RT underground storage

**subsystem test facility**

INIS: 2000-04-12; ETDE: 1980-11-08  
USE msstf

**SUBTERRENE PENETRATORS**

Rock-melting equipment for excavation, drilling, and tunneling.  
\*BT1 drills  
\*BT1 earth penetrators  
RT boreholes  
RT excavation  
RT heating  
RT materials drilling  
RT melting  
RT rock drilling  
RT tunnels

**suburbs**

USE urban areas

**SUCCINIC ACID**

\*BT1 dicarboxylic acids  
RT aspartic acid

**sucker rod pumps**

INIS: 2000-04-12; ETDE: 1984-05-10  
USE rod pumps

**sucrose**

USE saccharose

**SUDAN**

BT1 africa  
BT1 arab countries  
BT1 developing countries  
RT nile river  
RT red sea

**SUDBURY NEUTRINO OBSERVATORY**

INIS: 1992-08-06; ETDE: 1992-09-10  
Sudbury, Ontario, Canada.  
RT neutrino detection  
RT underground facilities

**SUDDEN APPROXIMATION**

1975-08-22  
A high energy limit which assumes that the internal motions of the target are slow compared with the duration of the collision.  
\*BT1 approximations  
RT collisions  
RT hamiltonians  
RT quantum mechanics  
RT transients  
RT wave functions

**SUDDEN COMMENCEMENTS**

RT magnetic storms

**SUDDEN IONOSPHERIC DISTURBANCE**

UF sid  
\*BT1 ionospheric storms  
RT ionosphere

**SUEZ CANAL**

INIS: 1992-06-04; ETDE: 1978-02-14  
\*BT1 inland waterways  
RT egyptian arab republic

**sugar**

USE saccharose

**SUGAR BEETS**

INIS: 1991-12-16; ETDE: 1977-06-02  
\*BT1 beets

**SUGAR CANE**

\*BT1 reeds  
RT crops  
RT molasses

**SUGAR INDUSTRY**

INIS: 2000-05-08; ETDE: 1981-08-04  
BT1 industry  
RT biomass  
RT saccharides  
RT saccharose

**sugars**

USE saccharides

**SUGAWARA THEORY**

RT quantum field theory

**SUJB**

INIS: 1998-01-29; ETDE: 1998-02-24  
State Office for Nuclear Safety, Czech Republic.  
UF statni urad pro jadernou bezpecnost  
\*BT1 czech organizations

**SULF-X PROCESS**

INIS: 2000-04-12; ETDE: 1985-02-22  
The sulf-x process is a wet absorption process that utilizes a slurry of regenerated ferrous sulfide solids to achieve removal of 90 to 99% of sulfur dioxide from boiler flue gases by wet scrubbing. It is technically feasible for use with all fossil-fuel types.  
\*BT1 desulfurization

**sulfadiazine**

1996-10-23  
(Until October 1996 this was a valid descriptor.)  
USE pyrimidines  
USE sulfonamides

**SULFAMIC ACID**

1994-07-01  
\*BT1 inorganic acids

**SULFANILIC ACID**

UF aminobenzenesulfonic acid-para  
\*BT1 amines  
\*BT1 sulfonic acids

**SULFATE MINERALS**

INIS: 1996-11-13; ETDE: 1982-05-12  
UF johannite  
UF schroeckingerite  
UF zippeite  
BT1 minerals  
NT1 alunite  
NT1 anhydrite  
NT1 barite  
NT1 gypsum  
NT1 polyhalite  
RT aluminium sulfates  
RT barium sulfates  
RT calcium sulfates  
RT copper sulfates  
RT magnesium sulfates  
RT potassium sulfates  
RT sodium sulfates  
RT uranium sulfates

**SULFATE-REDUCING BACTERIA**

INIS: 1991-10-24; ETDE: 1984-05-08  
\*BT1 bacteria  
NT1 desulfovibrio  
RT desulfurization  
RT sulfur cycle

**SULFATES**

1997-06-19  
For salts only; see also SULFURIC ACID ESTERS.

BT1 oxygen compounds  
BT1 sulfur compounds  
NT1 acid sulfates  
NT1 actinium sulfates  
NT1 aluminium sulfates  
NT1 americium sulfates  
NT1 ammonium sulfates  
NT1 antimony sulfates  
NT1 barium sulfates  
NT1 berkelium sulfates  
NT1 beryllium sulfates  
NT1 bismuth sulfates  
NT1 cadmium sulfates  
NT1 calcium sulfates  
NT1 cerium sulfates  
NT1 cesium sulfates  
NT1 chromium sulfates  
NT1 cobalt sulfates  
NT1 copper sulfates  
NT1 dysprosium sulfates  
NT1 erbium sulfates  
NT1 europium sulfates  
NT1 gadolinium sulfates  
NT1 gallium sulfates  
NT1 hafnium sulfates  
NT1 holmium sulfates  
NT1 indium sulfates  
NT1 iridium sulfates  
NT1 iron sulfates  
NT1 lanthanum sulfates  
NT1 lead sulfates  
NT1 lithium sulfates  
NT1 lutetium sulfates  
NT1 magnesium sulfates  
NT1 manganese sulfates  
NT1 mercury sulfates  
NT1 molybdenum sulfates  
NT1 neodymium sulfates  
NT1 neptunium sulfates  
NT1 nickel sulfates  
NT1 niobium sulfates  
NT1 osmium sulfates  
NT1 platinum sulfates  
NT1 plutonium sulfates  
NT1 potassium sulfates  
NT1 praseodymium sulfates  
NT1 protactinium sulfates  
NT1 radium sulfates

**NT1** rhenium sulfates  
**NT1** rubidium sulfates  
**NT1** ruthenium sulfates  
**NT1** samarium sulfates  
**NT1** scandium sulfates  
**NT1** silver sulfates  
**NT1** sodium sulfates  
**NT1** strontium sulfates  
**NT1** tantalum sulfates  
**NT1** terbium sulfates  
**NT1** thallium sulfates  
**NT1** thorium sulfates  
**NT1** thulium sulfates  
**NT1** tin sulfates  
**NT1** titanium sulfates  
**NT1** uranium sulfates  
**NT1** uranyl sulfates  
**NT1** vanadium sulfates  
**NT1** ytterbium sulfates  
**NT1** yttrium sulfates  
**NT1** zinc sulfates  
**NT1** zirconium sulfates  
*RT* glucuronide conjugates  
*RT* glutathione conjugates  
*RT* sulfation  
*RT* sulfuric acid  
*RT* thiosulfates

**SULFATION**

*INIS: 2000-04-12; ETDE: 1991-07-08*  
 Conversion of a compound into a sulfate by the oxidation of sulfur or the addition of a sulfate group.

**BT1** chemical reactions  
*RT* oxidation  
*RT* sulfates

**SULFENAMIDES**

2000-04-12

\***BT1** amides  
 \***BT1** organic sulfur compounds

**sulfex process**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

USE reprocessing

**sulphydryl compounds**

USE thiols

**SULFHYDRYL RADICALS**

**BT1** radicals

**SULFIBAN PROCESS**

*INIS: 2000-04-12; ETDE: 1976-09-14*

A process for coke oven gas desulfurization using mono-ethanolamine scrubbing.

\***BT1** desulfurization

**SULFIDATION**

*INIS: 1982-09-21; ETDE: 1979-07-24*

**BT1** chemical reactions

**SULFIDE MINERALS**

*INIS: 1984-04-25; ETDE: 1982-05-12*

(From March 1977 till February 1995

CINNABAR was a valid ETDE descriptor;

from April 1975 till March 1997

SPHALERITE was a valid ETDE descriptor.)

*UF* cinnabar  
*UF* sphalerite

**BT1** minerals  
**NT1** chalcocopyrite  
**NT1** galena  
**NT1** marcasite  
**NT1** pyrite  
**NT1** pyrrhotite  
**NT2** troilite  
*RT* copper sulfides  
*RT* iron sulfides

*RT* lead sulfides  
*RT* mercury sulfides

**SULFIDES**

1997-06-18

*UF* polysulfides  
**BT1** chalcogenides  
**BT1** sulfur compounds  
**NT1** aluminium sulfides  
**NT1** americium sulfides  
**NT1** antimony sulfides  
**NT1** arsenic sulfides  
**NT1** barium sulfides  
**NT1** berkelium sulfides  
**NT1** beryllium sulfides  
**NT1** bismuth sulfides  
**NT1** boron sulfides  
**NT1** cadmium sulfides  
**NT1** calcium sulfides  
**NT1** californium sulfides  
**NT1** carbon sulfides  
**NT1** cerium sulfides  
**NT1** cesium sulfides  
**NT1** chromium sulfides  
**NT1** cobalt sulfides  
**NT1** copper sulfides  
**NT1** curium sulfides  
**NT1** dimethyl sulfide  
**NT1** dysprosium sulfides  
**NT1** erbium sulfides  
**NT1** europium sulfides  
**NT1** gadolinium sulfides  
**NT1** gallium sulfides  
**NT1** germanium sulfides  
**NT1** hafnium sulfides  
**NT1** holmium sulfides  
**NT1** hydrogen sulfides  
**NT1** indium sulfides  
**NT1** iron sulfides  
**NT1** lanthanum sulfides  
**NT1** lead sulfides  
**NT1** lithium sulfides  
**NT1** lutetium sulfides  
**NT1** magnesium sulfides  
**NT1** manganese sulfides  
**NT1** mercury sulfides  
**NT1** molybdenum sulfides  
**NT1** neodymium sulfides  
**NT1** neptunium sulfides  
**NT1** nickel sulfides  
**NT1** niobium sulfides  
**NT1** osmium sulfides  
**NT1** palladium sulfides  
**NT1** phosphorus sulfides  
**NT1** platinum sulfides  
**NT1** plutonium sulfides  
**NT1** potassium sulfides  
**NT1** praseodymium sulfides  
**NT1** rhenium sulfides  
**NT1** rhodium sulfides  
**NT1** rubidium sulfides  
**NT1** ruthenium sulfides  
**NT1** samarium sulfides  
**NT1** scandium sulfides  
**NT1** selenium sulfides  
**NT1** silicon sulfides  
**NT1** silver sulfides  
**NT1** sodium sulfides  
**NT1** strontium sulfides  
**NT1** tantalum sulfides  
**NT1** technetium sulfides  
**NT1** tellurium sulfides  
**NT1** terbium sulfides  
**NT1** thallium sulfides  
**NT1** thorium sulfides  
**NT1** thulium sulfides  
**NT1** tin sulfides  
**NT1** titanium sulfides  
**NT1** tungsten sulfides

**NT1** uranium sulfides  
**NT1** vanadium sulfides  
**NT1** ytterbium sulfides  
**NT1** yttrium sulfides  
**NT1** zinc sulfides  
**NT1** zirconium sulfides  
*RT* oxysulfides

**sulfinic acids**

*INIS: 1984-04-04; ETDE: 2000-11-27*

USE organic acids  
 USE organic sulfur compounds

**SULFINOL PROCESS**

2000-04-12

Process for removal of acidic gas constituents, such as hydrogen sulfide, carbon dioxide, COS, and mercaptans, from natural, refinery, and synthesis gases and lng feedstocks.

\***BT1** desulfurization

**sulfite waste liquor**

*INIS: 1993-02-15; ETDE: 1978-08-08*

USE spent liquors

**SULFITES**

Specific compounds should be indexed by coordination of a descriptor of the form (cation) compounds and the above anion descriptor.

**BT1** oxygen compounds  
**BT1** sulfur compounds  
**NT1** acid sulfites  
*RT* sulfurous acid

**SULFOCHLORINATION**

\***BT1** chlorination

\***BT1** sulfonation

**sulfocyanides**

USE thiocyanates

**SULFONAMIDES**

1996-10-23

*UF* sulfadiazine

\***BT1** amides  
 \***BT1** antimicrobial agents  
 \***BT1** organic sulfur compounds  
*RT* sulfonic acids

**SULFONATES**

1997-06-19

For salts of sulfonic acids; for esters see SULFONIC ACID ESTERS.

\***BT1** organic sulfur compounds  
**NT1** indocyanine green  
**NT1** petroleum sulfonates  
*RT* sulfonic acid esters  
*RT* sulfonic acids

**SULFONATION**

**BT1** chemical reactions  
**NT1** sulfochlorination

**SULFONES**

1996-10-23

*UF* spadns

*UF* sulfophenyl-naphthalene-sulfonic acid

\***BT1** organic sulfur compounds

**SULFONIC ACID ESTERS**

1997-06-19

\***BT1** esters  
 \***BT1** organic sulfur compounds  
**NT1** alkyl benzenesulfonates  
**NT1** ethyl methanesulfonate  
**NT1** methyl methanesulfonate  
**NT1** petroleum sulfonates  
*RT* sulfonates  
*RT* sulfonic acids

**SULFONIC ACIDS**

1996-10-23

UF acid chrome dyes  
 UF beryllon  
 UF congo red  
 UF dsnadns  
 UF erioglaucine  
 UF spadns  
 UF sulfophenyl-naphthalene-sulfonic acid  
 SF syntans  
 \*BT1 organic acids  
 \*BT1 organic sulfur compounds  
 NT1 arsenazo  
 NT1 bromosulphthalein  
 NT1 chromotropic acid  
 NT1 eriochrome dyes  
 NT1 evans blue  
 NT1 ferron  
 NT1 methyl orange  
 NT1 nitroso-r salt  
 NT1 sulfanilic acid  
 NT1 taurine  
 NT1 thorin  
 NT1 tiron  
 NT1 trypan blue  
 NT1 unithiol  
 RT chloramines  
 RT sulfonamides  
 RT sulfonates  
 RT sulfonic acid esters

**sulfophenyl-naphthalene-sulfonic acid**

1996-10-23

(Prior to March 1997 SPADNS was used for this concept in ETDE.)

USE sulfones  
 USE sulfonic acids

**sulfox process**

INIS: 2000-04-12; ETDE: 1976-01-23

*Conversion of hydrogen sulfide in some refinery gas or water streams to high-purity molten sulfur. Process operates on aqueous solution of ammonia and hydrogen sulfide, which may be refinery sour water or rich solution obtained by absorbing hydrogen sulfide from refinery gas with aqueous ammonia recycled from sulfox unit.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**SULFOXIDES**

\*BT1 organic sulfur compounds  
 NT1 dmso  
 NT1 dpso

**SULFREEN PROCESS**

2000-04-12

*Process for desulfurization of residue gas from Claus tail unit to produce liquid S; hydrogen sulfide and sulfur dioxide are made to react at temperatures below the S dew point of the reaction gas mixture.*

\*BT1 desulfurization

**SULFUR**

UF sulfur sulfides  
 \*BT1 nonmetals  
 RT otto process  
 RT penelec process  
 RT resox process  
 RT sour crudes  
 RT sulfur content

**SULFUR 24**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 even-even nuclei

\*BT1 light nuclei  
 \*BT1 sulfur isotopes

**SULFUR 26**

2007-04-23

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 proton decay radioisotopes  
 \*BT1 sulfur isotopes

**SULFUR 27**

INIS: 1986-08-19; ETDE: 1984-05-08

\*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 sulfur isotopes

**SULFUR 28**

INIS: 1989-09-14; ETDE: 1984-05-08

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 sulfur isotopes

**SULFUR 29**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 sulfur isotopes

**SULFUR 30**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 sulfur isotopes

**SULFUR 31**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 sulfur isotopes

**SULFUR 32**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
 \*BT1 sulfur isotopes  
 RT sulfur 32 beams  
 RT sulfur 32 reactions

**SULFUR 32 BEAMS**

\*BT1 ion beams  
 RT sulfur 32

**SULFUR 32 REACTIONS**

\*BT1 heavy ion reactions  
 RT sulfur 32

**SULFUR 32 TARGET**

ETDE: 1976-07-09  
 BT1 targets

**SULFUR 33**

\*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
 \*BT1 sulfur isotopes

**SULFUR 33 REACTIONS**

INIS: 1978-04-21; ETDE: 1978-07-06  
 \*BT1 heavy ion reactions

**SULFUR 33 TARGET**

ETDE: 1976-07-09  
 BT1 targets

**SULFUR 34**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 stable isotopes

\*BT1 sulfur isotopes  
 RT sulfur 34 reactions

**SULFUR 34 REACTIONS**

\*BT1 heavy ion reactions  
 RT sulfur 34

**SULFUR 34 TARGET**

ETDE: 1976-07-09  
 BT1 targets

**SULFUR 35**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 sulfur isotopes

**SULFUR 36**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
 \*BT1 sulfur isotopes

**SULFUR 36 REACTIONS**

INIS: 1980-07-24; ETDE: 1980-08-12  
 \*BT1 heavy ion reactions

**SULFUR 36 TARGET**

ETDE: 1976-07-09  
 BT1 targets

**SULFUR 37**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 sulfur isotopes

**SULFUR 38**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 light nuclei  
 \*BT1 sulfur isotopes

**SULFUR 38 BEAMS**

INIS: 1986-12-09; ETDE: 1987-02-24  
 \*BT1 radioactive ion beams

**SULFUR 39**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 sulfur isotopes  
 RT sulfur 39 reactions

**SULFUR 39 REACTIONS**

INIS: 1992-09-23; ETDE: 1985-07-18  
 \*BT1 heavy ion reactions  
 RT sulfur 39

**SULFUR 40**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 sulfur isotopes

**SULFUR 41**

INIS: 1976-03-17; ETDE: 1976-02-19  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 sulfur isotopes

**SULFUR 42**

INIS: 1976-03-17; ETDE: 1976-02-19  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 sulfur isotopes

**SULFUR 43***INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR 44***INIS: 1986-04-02; ETDE: 1986-07-03*

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR 45***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR 46***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR 47***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR 48***INIS: 1990-04-19; ETDE: 1990-05-16*

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR 49***2007-04-23*

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR ADDITIONS***2000-04-12*

- BT1 alloys
- NT1 ni-hard

**sulfur carbides**

USE carbon sulfides

**SULFUR CHLORIDES**

- \*BT1 chlorides
- BT1 sulfur compounds

**SULFUR COMPLEXES**

BT1 complexes

**SULFUR COMPOUNDS**

- UF polythionates
- UF polythionic acids
- NT1 carbon oxysulfide
- NT1 oxysulfides
- NT1 persulfates
- NT1 persulfuric acid
- NT1 sulfates
  - NT2 acid sulfates
  - NT2 actinium sulfates
  - NT2 aluminium sulfates
  - NT2 americium sulfates
  - NT2 ammonium sulfates
  - NT2 antimony sulfates
  - NT2 barium sulfates
  - NT2 berkelium sulfates
  - NT2 beryllium sulfates
  - NT2 bismuth sulfates
  - NT2 cadmium sulfates
  - NT2 calcium sulfates
  - NT2 cerium sulfates
  - NT2 cesium sulfates
  - NT2 chromium sulfates
  - NT2 cobalt sulfates

- NT2 copper sulfates
- NT2 dysprosium sulfates
- NT2 erbium sulfates
- NT2 europium sulfates
- NT2 gadolinium sulfates
- NT2 gallium sulfates
- NT2 hafnium sulfates
- NT2 holmium sulfates
- NT2 indium sulfates
- NT2 iridium sulfates
- NT2 iron sulfates
- NT2 lanthanum sulfates
- NT2 lead sulfates
- NT2 lithium sulfates
- NT2 lutetium sulfates
- NT2 magnesium sulfates
- NT2 manganese sulfates
- NT2 mercury sulfates
- NT2 molybdenum sulfates
- NT2 neodymium sulfates
- NT2 neptunium sulfates
- NT2 nickel sulfates
- NT2 niobium sulfates
- NT2 osmium sulfates
- NT2 platinum sulfates
- NT2 plutonium sulfates
- NT2 potassium sulfates
- NT2 praseodymium sulfates
- NT2 protactinium sulfates
- NT2 radium sulfates
- NT2 rhenium sulfates
- NT2 rubidium sulfates
- NT2 ruthenium sulfates
- NT2 samarium sulfates
- NT2 scandium sulfates
- NT2 silver sulfates
- NT2 sodium sulfates
- NT2 strontium sulfates
- NT2 tantalum sulfates
- NT2 terbium sulfates
- NT2 thallium sulfates
- NT2 thorium sulfates
- NT2 thulium sulfates
- NT2 tin sulfates
- NT2 titanium sulfates
- NT2 uranium sulfates
- NT2 uranyl sulfates
- NT2 vanadium sulfates
- NT2 ytterbium sulfates
- NT2 yttrium sulfates
- NT2 zinc sulfates
- NT2 zirconium sulfates
- NT1 sulfides
  - NT2 aluminium sulfides
  - NT2 americium sulfides
  - NT2 antimony sulfides
  - NT2 arsenic sulfides
  - NT2 barium sulfides
  - NT2 berkelium sulfides
  - NT2 beryllium sulfides
  - NT2 bismuth sulfides
  - NT2 boron sulfides
  - NT2 cadmium sulfides
  - NT2 calcium sulfides
  - NT2 californium sulfides
  - NT2 carbon sulfides
  - NT2 cerium sulfides
  - NT2 cesium sulfides
  - NT2 chromium sulfides
  - NT2 cobalt sulfides
  - NT2 copper sulfides
  - NT2 curium sulfides
  - NT2 dimethyl sulfide
  - NT2 dysprosium sulfides
  - NT2 erbium sulfides
  - NT2 europium sulfides
  - NT2 gadolinium sulfides
  - NT2 gallium sulfides
  - NT2 germanium sulfides

- NT2 hafnium sulfides
- NT2 holmium sulfides
- NT2 hydrogen sulfides
- NT2 indium sulfides
- NT2 iron sulfides
- NT2 lanthanum sulfides
- NT2 lead sulfides
- NT2 lithium sulfides
- NT2 lutetium sulfides
- NT2 magnesium sulfides
- NT2 manganese sulfides
- NT2 mercury sulfides
- NT2 molybdenum sulfides
- NT2 neodymium sulfides
- NT2 neptunium sulfides
- NT2 nickel sulfides
- NT2 niobium sulfides
- NT2 osmium sulfides
- NT2 palladium sulfides
- NT2 phosphorus sulfides
- NT2 platinum sulfides
- NT2 plutonium sulfides
- NT2 potassium sulfides
- NT2 praseodymium sulfides
- NT2 rhenium sulfides
- NT2 rhodium sulfides
- NT2 rubidium sulfides
- NT2 ruthenium sulfides
- NT2 samarium sulfides
- NT2 scandium sulfides
- NT2 selenium sulfides
- NT2 silicon sulfides
- NT2 silver sulfides
- NT2 sodium sulfides
- NT2 strontium sulfides
- NT2 tantalum sulfides
- NT2 technetium sulfides
- NT2 tellurium sulfides
- NT2 terbium sulfides
- NT2 thallium sulfides
- NT2 thorium sulfides
- NT2 thulium sulfides
- NT2 tin sulfides
- NT2 titanium sulfides
- NT2 tungsten sulfides
- NT2 uranium sulfides
- NT2 vanadium sulfides
- NT2 ytterbium sulfides
- NT2 yttrium sulfides
- NT2 zinc sulfides
- NT2 zirconium sulfides
- NT1 sulfites
  - NT2 acid sulfites
- NT1 sulfur chlorides
- NT1 sulfur fluorides
- NT1 sulfur nitrides
- NT1 sulfur oxides
  - NT2 sulfur dioxide
  - NT2 sulfur trioxide
- NT1 sulfuric acid
- NT1 sulfurous acid
- NT1 sulfuryl compounds
- RT organic sulfur compounds

**SULFUR CONTENT***INIS: 1992-02-04; ETDE: 1980-08-12*

- RT chemical composition
- RT coal
- RT sulfur

**SULFUR CYCLE***INIS: 1991-10-22; ETDE: 1979-03-05*

- RT ecological concentration
- RT ecosystems
- RT metabolism
- RT mineral cycling
- RT sulfate-reducing bacteria
- RT sulfur-oxidizing bacteria



**SULFUR DIOXIDE**

1991-12-11

(Prior to January 1992, this was indexed by SULFUR OXIDES.)

\*BT1 sulfur oxides

**SULFUR FLUORIDES**

\*BT1 fluorides

BT1 sulfur compounds

RT gas-insulated substations

**sulfur hydrides**

USE hydrogen sulfides

**SULFUR IONS**

\*BT1 ions

**SULFUR ISOTOPES**

1999-07-16

BT1 isotopes

NT1 sulfur 24

NT1 sulfur 26

NT1 sulfur 27

NT1 sulfur 28

NT1 sulfur 29

NT1 sulfur 30

NT1 sulfur 31

NT1 sulfur 32

NT1 sulfur 33

NT1 sulfur 34

NT1 sulfur 35

NT1 sulfur 36

NT1 sulfur 37

NT1 sulfur 38

NT1 sulfur 39

NT1 sulfur 40

NT1 sulfur 41

NT1 sulfur 42

NT1 sulfur 43

NT1 sulfur 44

NT1 sulfur 45

NT1 sulfur 46

NT1 sulfur 47

NT1 sulfur 48

NT1 sulfur 49

**SULFUR METERS**

INIS: 1983-02-04; ETDE: 1978-12-11

\*BT1 meters

RT chemical analysis

RT pollution control equipment

**SULFUR NITRIDES**

UF nitrogen sulfides

\*BT1 nitrides

BT1 sulfur compounds

**SULFUR ORES**

INIS: 2000-04-12; ETDE: 1978-06-14

BT1 ores

**SULFUR OXIDES**

\*BT1 oxides

BT1 sulfur compounds

NT1 sulfur dioxide

NT1 sulfur trioxide

RT oxysulfides

**SULFUR-OXIDIZING BACTERIA**

INIS: 1991-10-24; ETDE: 1984-01-27

\*BT1 bacteria

NT1 rhodococcus

NT1 thiobacillus ferrooxidans

NT1 thiobacillus oxidans

RT desulfurization

RT sulfur cycle

**sulfur sulfides**

USE sulfur

**SULFUR TRIOXIDE**

1992-05-22

\*BT1 sulfur oxides

**SULFURIC ACID**

UF hydrogen sulfates

\*BT1 inorganic acids

BT1 oxygen compounds

BT1 sulfur compounds

RT acid sulfates

RT acid sulfites

RT persulfuric acid

RT sulfates

RT sulfuric acid esters

RT sulfonyl compounds

**SULFURIC ACID ESTERS**

1978-04-21

UF sodium lauryl sulfates

\*BT1 esters

\*BT1 organic sulfur compounds

RT sulfuric acid

**SULFUROUS ACID**

\*BT1 inorganic acids

BT1 oxygen compounds

BT1 sulfur compounds

RT sulfites

**SULFURYL COMPOUNDS**

1994-09-29

BT1 sulfur compounds

RT sulfuric acid

**SUM RULES**

BT1 equations

RT quantum mechanics

**SUMMER-1 REACTOR**

South Carolina Electric and Gas Co.,

Jenkinsville, South Carolina, USA.

UF virgil c summer-1 reactor

\*BT1 pwr type reactors

**SUMMIT-1 REACTOR**

Delmarva Power and Light Co., Kent Co.,

Delaware, USA. Canceled in 1975 before

construction began.

\*BT1 enriched uranium reactors

\*BT1 helium cooled reactors

\*BT1 htgr type reactors

\*BT1 power reactors

**SUMMIT-2 REACTOR**

Delmarva Power and Light Co., Kent Co.,

Delaware, USA. Canceled in 1975 before

construction began.

\*BT1 enriched uranium reactors

\*BT1 helium cooled reactors

\*BT1 htgr type reactors

\*BT1 power reactors

**SUN**

\*BT1 main sequence stars

RT chromosphere

RT energy sources

RT international geophysical year

RT international quiet sun year

RT international solar maximum year

RT orbiting solar observatories

RT photosphere

RT sky

RT solar activity

RT solar atmosphere

RT solar corona

RT solar cycle

RT solar energy

RT solar flares

RT solar granulation

RT solar prominences

RT solar radiation

RT solar radio bursts

RT solar system

RT solar wind

RT solar x-ray bursts

**SUN BEAM OPERATION**

INIS: 2000-04-12; ETDE: 1986-11-20

\*BT1 nuclear explosions

\*BT1 underground explosions

RT contained explosions

**SUN CHARTS**

INIS: 2000-04-12; ETDE: 1980-03-04

Charts that map the height angle and horizontal angle of the sun for a given location and time.

\*BT1 diagrams

RT altitude

RT coordinates

RT insolation

RT solar radiation

**SUN SHADES**

INIS: 2000-04-12; ETDE: 1975-10-01

RT buildings

RT cooling load

RT curtains

RT shading

RT shutters

**SUNDESERT-1 REACTOR**

INIS: 1977-10-17; ETDE: 1977-05-07

San Diego Gas and Electric Co., Blythe, California, USA. Canceled in 1978 before construction began.

\*BT1 pwr type reactors

**SUNDESERT-2 REACTOR**

INIS: 1977-10-17; ETDE: 1977-05-07

San Diego Gas and Electric Co., Blythe, California, USA. Canceled in 1978 before construction began.

\*BT1 pwr type reactors

**SUNFLOWER OIL**

INIS: 2000-04-12; ETDE: 1984-03-06

\*BT1 vegetable oils

**SUNFLOWERS**

UF helianthus annuus

UF jerusalem artichokes

\*BT1 magnoliopsida

**SUNIST SPHEROMAK**

2006-07-25

Department of Engineering Physics, Tsinghua University, and Institute of Physics, China Academy of Science, Beijing, China.

UF sino united spherical tokamak

\*BT1 spheromak devices

**SUNNYSIDE DEPOSIT**

INIS: 2000-04-12; ETDE: 1977-05-07

\*BT1 oil sand deposits

RT oil sands

RT utah

**SUNSHINE PROJECT**

UF project sunshine

RT fallout

**SUNSPOTS**

\*BT1 solar activity

\*BT1 starspots

RT photosphere

RT solar cycle

RT solar flares

**super high frequency radiation**

1999-10-15

USE ghz range 01-100

USE radiowave radiation

**SUPER KUKLA REACTOR**

1975-11-27

Lawrence Livermore Laboratory, Livermore, California, USA. Prompt burst reactor. Shut down in 1979.

- \*BT1 pulsed reactors
- \*BT1 research and test reactors

**SUPER PHENIX REACTOR**

Creys Malville, Isere, France.

UF creys-malville reactor

- \*BT1 enriched uranium reactors
- \*BT1 Imfbr type reactors
- \*BT1 plutonium reactors
- \*BT1 sodium cooled reactors

**super power water boiler**

USE supo reactor

**superalloys**

INIS: 2000-04-12; ETDE: 1983-01-21

USE heat resisting alloys

**supercapacitors**

2005-07-05

SEE capacitive energy storage equipment

**SUPERCHARGERS**

2000-04-12

UF supercharging

- BT1 compressors
- NT1 turbochargers
- RT blowers
- RT internal combustion engines

**supercharging**

2000-04-12

USE superchargers

**SUPERCOMPUTERS**

INIS: 1997-06-17; ETDE: 1984-11-09

The largest, fastest, most powerful computers available at any given time.

- \*BT1 digital computers
- RT cdc computers
- RT cedar computers
- RT cray computers
- RT hypercube computers
- RT nec computers
- RT vector processing

**SUPERCONDUCTING CABLES**

- \*BT1 electric cables
- RT cryogenic cables
- RT gas-insulated cables
- RT superconducting composites
- RT superconducting devices
- RT superconductivity

**SUPERCONDUCTING CAVITY RESONATORS**

- \*BT1 cavity resonators
- BT1 superconducting devices
- RT cyclic accelerators
- RT microwave equipment
- RT rf systems

**SUPERCONDUCTING COILS**

INIS: 1995-02-27; ETDE: 1975-11-11

(Prior to January 1983 this concept was indexed by SUPERCONDUCTING DEVICES.)

- \*BT1 electric coils
- RT magnet coils
- RT magnetic energy storage equipment
- RT superconducting magnetic energy storage
- RT superconducting magnets

**SUPERCONDUCTING COLLOID DETECTORS**

INIS: 1976-10-07; ETDE: 1976-11-01

Operates on the principle that a charged particle passing through a superconducting colloid in the metastable, superheated state leads to a measurable change in the inductance of a surrounding pick-up coil.

- \*BT1 radiation detectors
- BT1 superconducting devices
- RT colloids
- RT position sensitive detectors

**SUPERCONDUCTING COMPOSITES**

Superconductors embedded or clad in a conductor matrix.

- \*BT1 composite materials
- RT superconducting cables

**SUPERCONDUCTING CYCLOTRONS**

INIS: 1991-10-08; ETDE: 1983-03-24

- \*BT1 cyclotrons
- NT1 milan superconducting cyclotron
- NT1 texas superconducting cyclotron
- RT superconducting devices

**SUPERCONDUCTING DEVICES**

1976-02-24

Restricted to general or review articles and bibliographies.

- NT1 cryotrons
- NT1 flux pumps
- NT1 squid devices
- NT1 superconducting cavity resonators
- NT1 superconducting colloid detectors
- NT1 superconducting generators
- NT1 superconducting magnets
- NT1 superconducting motors
- RT superconducting cables
- RT superconducting cyclotrons
- RT superconducting junctions

**SUPERCONDUCTING FILMS**

1983-06-30

- BT1 films
- RT superconductors

**superconducting flux pumps**

2000-04-12

USE flux pumps

**SUPERCONDUCTING GENERATORS**

- \*BT1 rotating generators
- BT1 superconducting devices

**SUPERCONDUCTING JUNCTIONS**

1999-10-15

- SF junctions
- NT1 josephson junctions
- RT superconducting devices
- RT superconductors
- RT tunnel effect

**SUPERCONDUCTING MAGNETIC ENERGY STORAGE**

INIS: 1995-01-11; ETDE: 1982-10-20

(Until January 1995 this concept was indexed to SUPERCONDUCTIVE ENERGY STORAGE.)

- UF smes
- UF superconductive energy storage
- \*BT1 magnetic energy storage
- RT superconducting coils
- RT superconducting magnets

**SUPERCONDUCTING MAGNETS**

1995-02-27

(From February 1979 to March 1997 LARGE COIL PROGRAM was a valid ETDE descriptor.)

- UF large coil program
- UF superconducting solenoids
- \*BT1 electromagnets
- BT1 superconducting devices
- RT magnet coils
- RT magnetic energy storage
- RT magnetic energy storage equipment
- RT superconducting coils
- RT superconducting magnetic energy storage
- RT superconductors

**SUPERCONDUCTING MOTORS**

- \*BT1 electric motors
- BT1 superconducting devices

**superconducting quantum interference devices**

1993-11-09

USE squid devices

**superconducting solenoids**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE solenoids
- USE superconducting magnets

**SUPERCONDUCTING SUPER COLLIDER**

INIS: 1985-01-18; ETDE: 1984-03-06

- UF deservtron
- UF ssc
- BT1 storage rings
- \*BT1 synchrotrons

**SUPERCONDUCTING WIRES**

1982-11-30

- BT1 wires
- RT superconductors

**superconductive energy storage**

INIS: 1995-01-11; ETDE: 2002-06-13

(Until January 1995 this was a valid descriptor.)

- USE superconducting magnetic energy storage

**SUPERCONDUCTIVITY**

1996-01-24

- \*BT1 electric conductivity
- RT abrikosov theory
- RT ac losses
- RT anyons
- RT bcs theory
- RT belyaev theory
- RT bogolyubov method
- RT coherence length
- RT collective excitations
- RT cooper pairs
- RT critical current
- RT critical field
- RT cryogenics
- RT electron-electron coupling
- RT electron-hole coupling
- RT electron-ion coupling
- RT electron-phonon coupling
- RT energy gap
- RT flux quantization
- RT ginzburg-landau theory
- RT gorkov-eliasberg theory
- RT helicon resonance
- RT high-*t<sub>c</sub>* superconductors
- RT hubbard model
- RT intermediate state
- RT josephson effect
- RT kisslinger-sorensen theory

RT kosterlitz-thouless theory  
 RT london equation  
 RT magnetic flux  
 RT meissner-ochsenfeld effect  
 RT mixed state  
 RT penetration depth  
 RT pippard theory  
 RT proximity effect  
 RT quenching  
 RT superconducting cables  
 RT tunnel effect

**SUPERCONDUCTORS**

NT1 organic superconductors  
 NT2 bedt-ttf  
 NT2 tmtsf  
 NT2 ttf-tcnq  
 NT1 stabilized superconductors  
 NT1 type-i superconductors  
 NT1 type-ii superconductors  
 NT2 high-*tc* superconductors  
 RT abrikosov theory  
 RT electric conductors  
 RT magnetic shielding  
 RT squid devices  
 RT superconducting films  
 RT superconducting junctions  
 RT superconducting magnets  
 RT superconducting wires

**SUPERCONVERGENCE RELATIONS**

RT convergence  
 RT mathematics  
 RT series expansion

**supercritical flow**

USE turbulent flow

**SUPERCRITICAL FLUID CHROMATOGRAPHY**

INIS: 1993-03-23; ETDE: 1983-07-07

\*BT1 chromatography  
 RT capillaries  
 RT chemical analysis

**SUPERCRITICAL GAS EXTRACTION**

INIS: 1994-09-08; ETDE: 1978-11-14

*Extraction of a substance with a solvent in its supercritical state.*

\*BT1 solvent extraction  
 RT coal liquefaction  
 RT coal liquids

**SUPERCRITICAL STATE**

INIS: 1992-01-30; ETDE: 1986-07-08

*Homogeneous phase existing above critical temperature and above critical pressure.*

RT critical pressure  
 RT critical temperature  
 RT phase transformations

**SUPERDEFORMED NUCLEI**

1994-04-12

\*BT1 deformed nuclei

**SUPERDISLOCATIONS**

*Groups of dislocations with specific space configuration.*

RT dislocations

**SUPERFLUID MODEL**

\*BT1 nuclear models

**SUPERFLUIDITY**

RT bose-einstein condensation  
 RT cryogenics  
 RT fifth sound  
 RT film flow  
 RT fluid flow  
 RT fourth sound  
 RT ginzburg-pitaevskii theory

RT helium 3 a  
 RT helium 3 a1  
 RT helium 3 b  
 RT helium ii  
 RT khalatnikov theory  
 RT kosterlitz-thouless theory  
 RT lambda point  
 RT landau liquid helium theory  
 RT second sound  
 RT third sound  
 RT viscosity  
 RT vortex flow  
 RT zero sound

**superfluorescence**

INIS: 1984-02-22; ETDE: 2002-06-13

USE superradiance

**superfund**

INIS: 2000-04-12; ETDE: 1985-01-28

*Comprehensive environmental response, compensation, and liability act of 1980; public law 96-510.*

*(Prior to November 1991 this was a valid ETDE descriptor.)*

USE us superfund

**SUPERGIANT STARS**

\*BT1 giant stars

**supergranulation**

USE solar granulation

**SUPERGRAVITY**

INIS: 1977-09-15; ETDE: 1977-11-10

*A theory connecting fermion-boson supersymmetry with gravitation.*

\*BT1 unified-field theories

RT compactification  
 RT gauge invariance  
 RT graded lie groups  
 RT gravitation  
 RT gravitons  
 RT kaluza-klein theory  
 RT m-theory  
 RT quantum field theory  
 RT quantum gravity  
 RT supersymmetry

**SUPERHEATERS**

UF steam superheaters  
 RT reactor cooling systems  
 RT steam generators  
 RT superheating

**SUPERHEATING**

BT1 heating  
 NT1 nuclear superheating  
 RT steam  
 RT superheaters

**superheavy elements**

USE transactinide elements

**superheterodyne receivers**

1976-02-11

USE heterodyne receivers

**SUPERHILAC**

UF berkeley superhilac

\*BT1 hilacs  
 RT bevalac

**SUPERIOR PROCESS**

INIS: 2000-04-12; ETDE: 1977-03-08

*Circular-grate retort used in processing shale; nahcolite and dawsonite are co-products with shale oil.*

RT oil shales

**SUPERLATTICES**

RT order-disorder transformations

RT solid solutions

**SUPERMASSIVE STARS**

*Of the order of 100000 solar masses.*

BT1 stars

**SUPERMULTIPLETS**

BT1 multiplets

**SUPERNOVA REMNANTS**

BT1 cosmic radio sources

NT1 crab nebula

RT pulsars

RT supernovae

**SUPERNOVAE**

\*BT1 eruptive variable stars

RT novae

RT supernova remnants

**SUPEROPERATORS**

*Acting on other mathematical operator(s).*

BT1 mathematical operators

**SUPEROXIDE DISMUTASE**

INIS: 1986-12-03; ETDE: 1984-02-10

UF sod

\*BT1 oxidoreductases

**SUPEROXIDE RADICALS**

INIS: 1984-04-04; ETDE: 1977-08-24

BT1 radicals

**SUPERPARAMAGNETISM**

INIS: 1976-02-11; ETDE: 1976-04-19

*Quasiparamagnetism of small magnetically ordered particles.*

BT1 magnetism

**SUPERPHOSPHATES**

BT1 fertilizers

\*BT1 phosphates

**SUPERRADIANCE**

INIS: 1984-02-22; ETDE: 1980-05-06

*A fast cooperative spontaneous deexcitation process in which an ensemble of atoms emit an intense burst of radiation.*

UF cooperative spontaneous emission

UF emission (cooperative spontaneous)

UF spontaneous emission (cooperative)

UF superfluorescence

\*BT1 photon emission

\*BT1 stimulated emission

RT atoms

RT fluorescence

RT laser radiation

**SUPERSATURATION**

BT1 saturation

RT precipitation

RT solubility

RT solutions

**SUPERSELECTION RULES**

BT1 selection rules

RT quantum mechanics

**SUPERSONIC FLOW**

BT1 fluid flow

RT aerodynamics

RT compressible flow

RT shock waves

RT transonic flow

RT wind tunnels

**SUPERSONIC TRANSPORT**

\*BT1 air transport

RT aircraft

RT cosmic radiation

RT solar flares

RT stratosphere

**SUPERSTRING MODELS**

INIS: 1992-05-25; ETDE: 1992-06-02

- \*BT1 string models
- RT particle structure
- RT superstring theory
- RT supersymmetry

**SUPERSTRING THEORY**

2007-08-13

*Attempt to explain all of the particles and fundamental forces of nature in one theory by modeling them as vibrations of tiny supersymmetric strings; four variations exist: Type I, Type IIA, Type IIB and Heterotic.*

- \*BT1 string theory
- RT anti de sitter space
- RT de sitter space
- RT superstring models
- RT supersymmetry

**supersymmetric particles**

INIS: 1987-12-21; ETDE: 1988-03-16

- USE sparticles

**SUPERSYMMETRY**

INIS: 1978-02-23; ETDE: 1978-05-01

- BT1 symmetry
- RT graded lie groups
- RT group theory
- RT m-theory
- RT quantum field theory
- RT supergravity
- RT superstring models
- RT superstring theory
- RT unified-field theories

**supertankers**

INIS: 2000-04-12; ETDE: 1976-03-31

- USE tanker ships

**SUPERTHERM**

INIS: 2000-04-12; ETDE: 1979-08-09

- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 iron alloys
- \*BT1 nickel alloys
- \*BT1 silicon alloys
- \*BT1 tungsten alloys

**supervisor codes**

INIS: 1988-11-16; ETDE: 2002-06-13

- USE executive codes

**supervoltage radiotherapy**

- USE radiotherapy

**SUPO REACTOR**

LASL, Los Alamos, New Mexico, USA. Shut down in 1974.

- UF los alamos water boiler reactor
- UF super power water boiler
- \*BT1 aqueous homogeneous reactors
- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**supply**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE availability

**SUPPLY AND DEMAND**

INIS: 1991-10-11; ETDE: 1978-03-08

*Relationship between the quantity that producers wish to sell at various prices and the quantity of a commodity that consumers wish to buy.*

- RT demand
- RT demand factors
- RT domestic supplies
- RT economics
- RT energy demand

- RT energy supplies
- RT market
- RT spot market
- RT supply disruption
- RT trade

**SUPPLY DISRUPTION**

INIS: 1991-12-17; ETDE: 1979-10-23

- RT embargoes
- RT energy supplies
- RT shortages
- RT supply and demand

**SUPPORT PILLARS**

INIS: 2000-04-12; ETDE: 1979-06-06

- RT supports

**SUPPORTED LIQUID MEMBRANES**

INIS: 1998-10-21; ETDE: 1985-09-24

- BT1 membranes
- RT membrane transport
- RT separation processes

**SUPPORTS**

- UF columns (structural)
- BT1 mechanical structures
- NT1 foundations
- NT1 fuel racks
- NT1 powered supports
- NT2 shield supports
- RT catalyst supports
- RT mining equipment
- RT reactor core restraints
- RT restraints
- RT roof bolts
- RT support pillars

**supports (catalyst)**

INIS: 1992-01-16; ETDE: 1980-10-07

- USE catalyst supports

**suppression**

INIS: 2000-04-12; ETDE: 1976-01-26

- USE inhibition

**supra-thermal electrons**

1994-02-28

- USE tail electrons

**supra-thermal ions**

INIS: 1994-02-28; ETDE: 2002-06-13

- USE tail ions

**supralethal doses**

- USE supralethal irradiation

**SUPRALETHAL IRRADIATION**

- UF supralethal doses
- BT1 irradiation
- RT death
- RT dose-response relationships
- RT lethal irradiation
- RT lethal radiation dose
- RT mortality
- RT radiation doses

**sur-100 aachen**

- USE sur-100 series reactor

**sur-100 berlin**

- USE sur-100 series reactor

**sur-100 bremen**

- USE sur-100 series reactor

**sur-100 darmstadt**

- USE sur-100 series reactor

**sur-100 hamburg**

- USE sur-100 series reactor

**sur-100 karlsruhe**

- USE sur-100 series reactor

**sur-100 kiel**

- USE sur-100 series reactor

**sur-100 muenchen**

- USE sur-100 series reactor

**SUR-100 SERIES REACTOR**

- UF siemens unterrichtsreaktor
- UF sur-100 aachen
- UF sur-100 berlin
- UF sur-100 bremen
- UF sur-100 darmstadt
- UF sur-100 hamburg
- UF sur-100 karlsruhe
- UF sur-100 kiel
- UF sur-100 muenchen
- UF sur-100 stuttgart
- UF sur-100 ulm
- \*BT1 enriched uranium reactors
- \*BT1 organic moderated reactors
- \*BT1 solid homogeneous reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**sur-100 stuttgart**

- USE sur-100 series reactor

**sur-100 ulm**

- USE sur-100 series reactor

**surcharges**

INIS: 2000-04-12; ETDE: 1979-11-23

*Extra or additional fees or taxes, usually for some special service.*

*(Prior to March 1997 this was a valid ETDE descriptor.)*

- SEE charges

- SEE taxes

**SURF II STORAGE RING**

INIS: 1984-07-20; ETDE: 1984-08-20

*NBS Synchrotron Ultraviolet Radiation Facility.*

- UF nbs synchrotron ultraviolet radiation facility

- UF synchrotron uv radiation facility (nbs)

- BT1 storage rings

- \*BT1 synchrotron radiation sources

**surface-active agents**

- USE surfactants

**SURFACE AIR**

- \*BT1 air
- RT earth atmosphere
- RT particle resuspension

**SURFACE AREA**

INIS: 1999-10-20; ETDE: 1977-09-19

*Extent of the area covered by a surface. See also SPECIFIC SURFACE AREA.*

- BT1 surface properties
- RT surfaces

**surface area (specific)**

INIS: 1982-09-21; ETDE: 2002-06-13

- USE specific surface area

**SURFACE BARRIER DETECTORS**

- \*BT1 semiconductor detectors
- RT depletion layer
- RT surface barrier transistors

**SURFACE BARRIER TRANSISTORS**

- \*BT1 transistors
- RT depletion layer
- RT surface barrier detectors

**surface boiling**

- USE subcooled boiling

**SURFACE CLEANING**

- BT1 cleaning
- BT1 surface finishing
- RT decontamination
- RT descaling
- RT polishing
- RT scrapers
- RT shot peening

**SURFACE COATING**

- UF coating (surface)
- UF coating processes
- BT1 deposition
- NT1 chemical coating
  - NT2 chemical vapor deposition
  - NT2 electrochemical coating
    - NT3 anodization
- NT1 cladding
- NT1 diffusion coating
- NT1 dip coating
  - NT2 hot dipping
- NT1 electrodeposition
  - NT2 electroplating
- NT1 energy beam deposition
- NT1 physical vapor deposition
- NT1 plating
  - NT2 electroplating
  - NT2 vapor plating
- NT1 screen printing
- NT1 spin-on coating
- NT1 spray coating
  - NT2 flame spraying
  - NT2 plasma arc spraying
- NT1 vacuum coating
  - RT coatings
  - RT corrosion protection
  - RT hard facing
  - RT liners
  - RT lining processes
  - RT surface finishing
  - RT waterproofing

**SURFACE CONTAMINATION**

*For radioactive contamination only; see also POLLUTION.*

- UF contamination (surface)
- UF soiling
- BT1 contamination
- RT decontamination
- RT radioactivity
- RT surface contamination monitors

**SURFACE CONTAMINATION MONITORS**

- \*BT1 radiation monitors
- RT surface contamination

**surface delta interaction**

- USE surface delta potential

**SURFACE DELTA POTENTIAL**

1999-10-20

- UF modified surface delta potential
- UF surface delta interaction
- \*BT1 nucleon-nucleon potential
- RT surface potential

**surface-effect machines**

INIS: 2000-04-12; ETDE: 1977-08-09

- USE air cushion vehicles

**SURFACE ENERGY**

1999-10-20

*The energy per unit area of an exposed surface of a liquid; generally greater than the surface tension.*

(Prior to June 1986 SURFACE TENSION was used for this concept.)

- \*BT1 free energy
- BT1 surface properties
- RT surface tension

**SURFACE EXPLOSIONS**

1996-06-26

- UF bravo event
- UF holly event
- UF middle gust event
- UF mike event
- UF zuni event
- BT1 explosions
  - RT castle project
  - RT cratering explosions
  - RT craters
  - RT nuclear excavation
  - RT nuclear explosions
  - RT plowshare project
  - RT redwing project

**SURFACE FINISHING**

- UF finishing (surface)
- NT1 descaling
- NT1 etching
- NT1 polishing
  - NT2 chemical polishing
  - NT2 electropolishing
  - NT2 mechanical polishing
- NT1 surface cleaning
  - RT coatings
  - RT machining
  - RT metallography
  - RT surface coating
  - RT surface hardening

**SURFACE FORCES**

INIS: 2000-04-12; ETDE: 1979-05-31

*External forces which act only on the surfaces of bodies.*

- RT mechanics

**SURFACE HARDENING**

- BT1 hardening
- BT1 surface treatments
- NT1 carburization
- RT cold working
- RT shot peening
- RT surface finishing

**SURFACE IONIZATION**

- BT1 ionization
- NT1 adiabatic surface ionization
- RT ion thrusters

**SURFACE MINING**

1991-08-09

- UF cross-ridge mining
- UF open pit mining
- UF quarrying
- UF strip mining
- BT1 mining
  - RT auger mining
  - RT coal mining
  - RT contained explosions
  - RT cratering explosions
  - RT culm
  - RT excavation
  - RT fracturing
  - RT mines
  - RT mining engineering
  - RT oil sand mining
  - RT oil shale mining
  - RT slope stability
  - RT underground mining

**SURFACE MINING ACTS**

INIS: 1992-02-21; ETDE: 1978-04-27

- \*BT1 mining laws

**SURFACE POTENTIAL**

INIS: 1999-10-20; ETDE: 1979-04-11

- BT1 potentials
  - RT surface delta potential
  - RT surface properties
  - RT work functions

**SURFACE PROPERTIES**

- NT1 absorptivity
- NT1 emissivity
- NT1 reflectivity
- NT1 roughness
- NT1 sorptive properties
- NT1 surface area
- NT1 surface energy
- NT1 surface tension
  - RT adhesion
  - RT adsorption
  - RT ceramography
  - RT corrosion
  - RT physical properties
  - RT surface potential
  - RT surface treatments
  - RT tribology
  - RT waterproofing
  - RT wettability

**SURFACE TENSION**

*The force acting on the surface of a liquid, tending to minimize the area of the surface; it equals the free energy per unit surface.*

- UF tension (surface)
- SF interfacial tension
- BT1 surface properties
- RT surface energy
- RT surfactants

**SURFACE TREATMENTS**

- NT1 pickling
  - NT2 corrosion pickling
- NT1 shot peening
- NT1 surface hardening
  - NT2 carburization
- RT sample preparation
- RT surface properties
- RT waterproofing

**SURFACE WATERS**

- NT1 coastal waters
  - NT2 bays
    - NT3 bay of biscay
    - NT3 bay of fundy
    - NT3 biscayne bay
    - NT3 chesapeake bay
    - NT3 delaware bay
    - NT3 galveston bay
    - NT3 matagorda bay
    - NT3 onslow bay
    - NT3 prudhoe bay
    - NT3 sequim bay
  - NT2 estuaries
    - NT3 fiords
    - NT3 long island sound
- NT1 inland waterways
  - NT2 manivier canal
  - NT2 panama canal
  - NT2 suex canal
- NT1 lakes
  - NT2 ambrosia lake
  - NT2 aral sea
  - NT2 athabasca lake
  - NT2 caspian sea
  - NT2 dead sea
  - NT2 great lakes
    - NT3 lake erie
    - NT3 lake huron
    - NT3 lake michigan
    - NT3 lake ontario
    - NT3 lake superior
  - NT2 great salt lake
  - NT2 lake baikal
  - NT2 lake balaton
  - NT2 lake drukshiai
  - NT2 lake wabamun
  - NT2 salton sea
- NT1 ponds
  - NT2 cooling ponds

- NT2 settling ponds
- NT2 solar ponds
- NT3 roof ponds
- NT1 rivers
  - NT2 allegheny river
  - NT2 altamaha river
  - NT2 amazon river
  - NT2 arkansas river
  - NT2 au sable river
  - NT2 blind river
  - NT2 brahmaputra river
  - NT2 brazos river
  - NT2 cape fear river
  - NT2 chattahoochee river
  - NT2 clinch river
  - NT2 colorado river
  - NT2 columbia river
  - NT2 connecticut river
  - NT2 cumberland river
  - NT2 danube river
  - NT2 delaware river
  - NT2 detroit river
  - NT2 dneiper river
  - NT2 dudvah river
  - NT2 fraser river
  - NT2 ganga river
  - NT2 grand river
  - NT2 gunnison river
  - NT2 hron river
  - NT2 hudson river
  - NT2 james river
  - NT2 kennebec river
  - NT2 lewis river
  - NT2 little tennessee river
  - NT2 menominee river
  - NT2 mississippi river
  - NT2 missouri river
  - NT2 mohawk river
  - NT2 nelson river
  - NT2 niagara river
  - NT2 niger river
  - NT2 Nile river
  - NT2 north platte river
  - NT2 ohio river
  - NT2 ottawa river
  - NT2 peace river
  - NT2 piceance creek
  - NT2 po river
  - NT2 potomac river
  - NT2 pripet river
  - NT2 rhine river
  - NT2 rhone river
  - NT2 rio grande river
  - NT2 saginaw river
  - NT2 saint clair river
  - NT2 saint john river
  - NT2 santee river
  - NT2 savannah river
  - NT2 severn river
  - NT2 skagit river
  - NT2 st lawrence river
  - NT2 streams
  - NT2 susquehanna river
  - NT2 techa river
  - NT2 tennessee river
  - NT2 thames river
  - NT2 tigris river
  - NT2 vah river
  - NT2 volga river
  - NT2 white river
  - NT2 yangtze river
  - NT2 yellow creek
  - NT2 yellow river
  - NT2 yukon river
- NT1 seas
  - NT2 antarctic ocean
  - NT3 weddell sea
  - NT2 aral sea
  - NT2 arctic ocean
- NT3 beaufort sea
- NT4 prudhoe bay
- NT3 chukchi sea
- NT2 atlantic ocean
- NT3 baltimore canyon
- NT3 bay of biscay
- NT3 bay of fundy
- NT3 biscayne bay
- NT3 caribbean sea
- NT4 gulf of mexico
- NT5 galveston bay
- NT5 san antonio bay
- NT3 chesapeake bay
- NT3 delaware bay
- NT3 gulf of maine
- NT3 irish sea
- NT3 long island sound
- NT3 mid-atlantic bight
- NT4 new york bight
- NT3 north sea
- NT4 wadden sea
- NT3 onslow bay
- NT3 sargasso sea
- NT3 south atlantic bight
- NT3 weddell sea
- NT2 baltic sea
- NT2 black sea
- NT2 caspian sea
- NT2 indian ocean
- NT3 arabian sea
- NT4 persian gulf
- NT5 strait of hormuz
- NT3 timor sea
- NT2 mediterranean sea
- NT3 adriatic sea
- NT3 aegean sea
- NT2 pacific ocean
- NT3 bering sea
- NT3 china sea
- NT3 gulf of alaska
- NT3 gulf of california
- NT3 puget sound
- NT3 san francisco bay
- NT3 santa barbara channel
- NT3 sequim bay
- NT3 tasman sea
- NT2 red sea
- NT3 gulf of suz
- NT1 swimming pools
- NT1 territorial waters
- NT1 water reservoirs
- NT2 cooling ponds
- RT air-water interactions
- RT alluvial deposits
- RT atmospheric precipitations
- RT fishes
- RT floods
- RT ground water
- RT hydrology
- RT hydrosphere
- RT irrigation
- RT liquid wastes
- RT marshes
- RT plankton
- RT swamps
- RT water
- RT water currents
- RT water resources
- RT watersheds
- RT wetlands

**surface waves (plasma)**

2001-01-08

USE plasma surface waves

**surface waves (seismic)**

INIS: 1980-05-14; ETDE: 1978-07-05

USE seismic surface waves

**SURFACES**

- UF crystal faces
- NT1 spectrally selective surfaces
- RT adsorption
- RT blisters
- RT interfaces
- RT rewetting
- RT surface area
- RT topological foliation
- RT two-dimensional calculations

**surfacing, hard**

INIS: 2000-07-24; ETDE: 1978-07-05

USE hard facing

**SURFACTANTS**

- UF dispersants (chemical)
- UF surface-active agents
- NT1 wetting agents
- NT2 detergents
- NT3 pluronics
- RT surface tension

**SURGERY**

- UF radiosurgery
- UF sympathectomy
- UF vagotomy
- BT1 medicine
- NT1 adrenalectomy
- NT1 castration
- NT1 gastrectomy
- NT1 hepatectomy
- NT1 hypophysectomy
- NT1 laryngectomy
- NT1 nephrectomy
- NT1 plastic surgery
- NT1 splenectomy
- NT1 thymectomy
- NT1 thyroidectomy
- RT anesthesia
- RT surgical materials
- RT therapy

**SURGES**

- RT electric controllers
- RT electric currents
- RT electric potential
- RT electrical transients
- RT fluid flow
- RT hydraulics
- RT overcurrent
- RT overvoltage
- RT pulses
- RT transients
- RT var control systems
- RT voltage regulators

**SURGICAL MATERIALS**

- BT1 materials
- BT1 medical supplies
- RT isomed
- RT prostheses
- RT surgery

**SURINAM**

- BT1 developing countries
- \*BT1 south america

**surmac reactors**

INIS: 2000-04-12; ETDE: 1978-01-23

(Prior to July 1985, this was a valid ETDE descriptor.)

USE surmac tokamak

**SURMAC TOKAMAK**

INIS: 1982-11-30; ETDE: 1983-02-09

- UF surmac reactors
- \*BT1 tokamak devices

**SURPLUS NUCLEAR FACILITIES**

*INIS: 1995-04-10; ETDE: 1986-01-15*  
*Nuclear facilities, usually radioactively contaminated, that have been declared surplus.*

BT1 nuclear facilities

**SURPLUS POWER**

*INIS: 1993-06-09; ETDE: 1984-02-10*  
*Electric power generating capacity in excess of firm load requirements.*

\*BT1 electric power  
 RT electric utilities  
 RT sellback

**SURRY-1 REACTOR**

*Virginia Electric and Power Co., Surry, Virginia, USA.*

UF surry power station unit-1  
 \*BT1 pwr type reactors

**SURRY-2 REACTOR**

*Virginia Electric and Power Co., Surry, Virginia, USA.*

UF surry power station unit-2  
 \*BT1 pwr type reactors

**SURRY-3 REACTOR**

*Virginia Electric and Power Co., Surry, Virginia, USA. Canceled in 1977 before construction began.*

\*BT1 pwr type reactors

**SURRY-4 REACTOR**

*Virginia Electric and Power Co., Surry, Virginia, USA. Canceled in 1977 before construction began.*

\*BT1 pwr type reactors

**surry power station unit-1**

USE surry-1 reactor

**surry power station unit-2**

USE surry-2 reactor

**surveillance**

*2000-03-29*  
*(Prior to May 1996 this was a valid ETDE descriptor.)*

SEE inspection  
 SEE medical surveillance  
 SEE monitoring  
 SEE security

**surveillance (medical)**

*ETDE: 2002-06-13*  
 USE medical surveillance

**surveillance (radioactivity)**

USE radiation monitoring

**survey (radioactivity)**

USE radiation monitoring

**SURVEY MONITORS**

\*BT1 radiation monitors

**surveys**

*INIS: 2000-04-12; ETDE: 1980-05-06*  
 SEE geochemical surveys  
 SEE geologic surveys  
 SEE geophysical surveys  
 SEE marine surveys  
 SEE public opinion

**SURVIVAL CURVES**

UF survival fraction  
 RT biological effects  
 RT dose-response relationships  
 RT lethal irradiation  
 RT mortality  
 RT radiosensitivity

**survival fraction**

USE survival curves

**SURVIVAL TIME**

RT lethal irradiation  
 RT time dependence

**susceptibility (magnetic)**

USE magnetic susceptibility

**suse cyclotron (munich)**

*INIS: 1984-07-20; ETDE: 1984-08-20*  
 USE munich suse cyclotron

**SUSPENSIONS**

BT1 dispersions  
 NT1 slurries  
 NT2 fuel slurries  
 RT drilling fluids  
 RT filters  
 RT fluidization  
 RT fluidized beds  
 RT turbidity

**suspensions (fuel)**

USE fuel slurries

**SUSQUEHANNA-1 REACTOR**

*PPL Susquehanna, LLC, Berwick, Pennsylvania, USA.*  
 UF susquehanna steam electric station unit-1  
 \*BT1 bwr type reactors

**SUSQUEHANNA-2 REACTOR**

*PPL Susquehanna, LLC, Berwick, Pennsylvania, USA.*  
 UF susquehanna steam electric station unit-2  
 \*BT1 bwr type reactors

**SUSQUEHANNA RIVER**

\*BT1 rivers  
 RT maryland  
 RT new york  
 RT pennsylvania

**susquehanna steam electric station unit-1**

*1993-11-09*  
 USE susquehanna-1 reactor

**susquehanna steam electric station unit-2**

*1993-11-09*  
 USE susquehanna-2 reactor

**SUSTAINABLE DEVELOPMENT**

*2000-09-26*  
*Development that meets the needs of the present while still allowing future generations to meet their own needs without shortages or harm to the environment.*

BT1 resource development  
 RT economic development  
 RT energy policy  
 RT energy source development  
 RT environmental policy  
 RT environmental protection  
 RT resource depletion  
 RT resource exploitation  
 RT resource management

**SUYDAM CRITERION**

UF suydam theory  
 RT mercier criterion  
 RT plasma instability

**suydam theory**

USE suydam criterion

**sv 40 virus**

USE simian virus

**sv40 virus**

*INIS: 1976-03-25; ETDE: 2000-11-24*  
 USE oncogenic viruses

**sw-3 groups**

*1996-07-23*  
*(Until July 1996 this was a valid descriptor.)*  
 USE sw groups

**SW GROUPS**

*1996-07-23*  
*(From April 1975 till March 1997 SW-3 GROUPS was a valid ETDE descriptor.)*  
 UF sw-3 groups  
 \*BT1 lie groups

**SWAGING**

\*BT1 materials working  
 RT forging

**SWAMPS**

*INIS: 1976-10-29; ETDE: 1976-07-07*  
*Waterlogged lands supporting a natural vegetation predominantly of shrubs and trees.*  
 UF bogs  
 \*BT1 terrestrial ecosystems  
 \*BT1 wetlands  
 RT everglades national park  
 RT marshes  
 RT surface waters

**SWAZILAND**

BT1 africa  
 BT1 developing countries

**SWEAT**

UF transpiration (animal)  
 \*BT1 biological wastes  
 \*BT1 body fluids  
 RT excretion  
 RT skin

**sweat glands**

USE glands  
 USE skin

**SWEDEN**

BT1 developed countries  
 \*BT1 scandinavia  
 RT oecd  
 RT ranstad deposit

**SWEDISH ORGANIZATIONS**

*INIS: 1976-09-06; ETDE: 1976-11-01*  
 BT1 national organizations

**swedish reactor r-1**

USE r-1 reactor

**swedish reactor r-2**

USE r-2 reactor

**swedish reactor r2-0**

USE r2-0 reactor

**SWEEP CIRCUITS**

BT1 electronic circuits  
 RT timing circuits

**SWEEP EFFICIENCY**

*INIS: 2000-04-12; ETDE: 1982-07-08*  
*The ratio of the volume of rock contacted by the displacing fluid to the total volume of rock subject to invasion by the displacing fluid.*  
 RT enhanced recovery

**SWEET GUMS**

*INIS: 1992-01-13; ETDE: 1987-03-24*  
*Liquidambar styraciflua.*  
 \*BT1 magnoliopsida

\*BT1 trees

**SWEETALLOY**  
2000-04-12  
\*BT1 chromium alloys  
\*BT1 nickel steels  
\*BT1 stainless steels

**SWELLING**  
BT1 deformation  
RT blisters  
RT expansion  
RT thermal expansion

**SWESSAR STANDARD PLANT**  
*Stone and Webster reference PWR nuclear power plant.*  
UF *stone-webster reference pwr*  
\*BT1 nuclear power plants

**swierk agata reactor**  
USE agata reactor

**swierk anna reactor**  
USE anna reactor

**swierk ewa reactor**  
USE ewa reactor

**SWIERK LINAC**  
\*BT1 linear accelerators

**swierk maria reactor**  
USE maria reactor

**SWIERK R-2 REACTOR**  
2000-04-12  
UF *r-ii swierk reactor*  
\*BT1 pool type reactors  
\*BT1 research reactors

**swierk research reactor maryla**  
USE maryla reactor

**swimming**  
USE exercise

**swimming pool reactors**  
USE pool type reactors

**swimming pool tank reactor austria**  
1993-11-09  
USE astra reactor

**SWIMMING POOLS**  
INIS: 2000-04-12; ETDE: 1975-10-28  
BT1 surface waters

**SWINE**  
UF *pigs*  
\*BT1 domestic animals  
\*BT1 mammals  
NT1 miniature swine  
RT meat

**swirl flow**  
INIS: 1984-04-04; ETDE: 1976-11-01  
(Prior to October 1981, this was a valid ETDE descriptor.)  
USE vortex flow

**swiss institute nuclear research cyclotron**  
1993-11-09  
USE sin cyclotron

**SWISS LIGHT SOURCE**  
2000-06-02  
*Paul Scherrer Institute, Villigen, Switzerland.*  
UF *sls (swiss synchrotron light source)*  
\*BT1 synchrotron radiation sources  
RT accelerator facilities  
RT light sources

RT x-ray sources

**SWISS ORGANIZATIONS**  
INIS: 1980-09-12; ETDE: 1980-10-07  
BT1 national organizations

**SWITCHES**  
UF *contactors*  
UF *electric contactors*  
UF *electric switches*  
\*BT1 electrical equipment  
NT1 cryotrons  
NT1 plasma switches  
NT1 semiconductor switches  
RT bimetals  
RT circuit breakers  
RT connectors  
RT electric contacts  
RT electric discharges  
RT electric fuses  
RT equipment protection devices  
RT insulating oils  
RT interlocks  
RT q-switching  
RT relays  
RT switching circuits

**SWITCHING CIRCUITS**  
BT1 electronic circuits  
NT1 transistor switching circuits  
RT circuit breakers  
RT counting circuits  
RT gating circuits  
RT relays  
RT switches  
RT thyatrons  
RT thyristors

**SWITCHING DIODES**  
\*BT1 semiconductor diodes  
RT transistor switching circuits

**SWITZERLAND**  
1995-04-03  
BT1 developed countries  
\*BT1 western europe  
RT alps  
RT oecd  
RT rhine river  
RT rhone river

**swordfish event**  
1994-10-14  
*A test made during PROJECT DOMINIC.*  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE nuclear explosions  
USE underwater explosions

**swpa**  
INIS: 2000-04-12; ETDE: 1980-03-29  
USE southwestern power administration

**SYCAMORES**  
INIS: 1992-01-13; ETDE: 1979-03-27  
\*BT1 magnoliopsida  
\*BT1 trees

**sydsvenska kraft ab reactor 1**  
USE barsebaeck-1 reactor

**sydsvenska kraft ab reactor 2**  
INIS: 1978-04-21; ETDE: 1978-07-06  
USE barsebaeck-2 reactor

**SYENITES**  
INIS: 1984-11-30; ETDE: 1980-08-12  
\*BT1 plutonic rocks  
RT feldspars

**SYMBIOSIS**  
INIS: 1999-10-21; ETDE: 1976-05-13  
*Limited to biology.*  
UF *commensalism*  
UF *mutualism*  
NT1 mycorrhizas  
RT animals  
RT biology  
RT ecology  
RT frankia  
RT plants  
RT predator-prey interactions  
RT rhizobium

**SYMBIOTIC STARS**  
1983-03-15  
*Objects whose spectra have characteristics of disparate spectral classes.*  
BT1 stars  
RT accretion disks  
RT binary stars

**symbolic logic**  
INIS: 1986-07-10; ETDE: 1975-11-11  
USE mathematical logic

**SYMMETRY**  
NT1 axial symmetry  
NT1 boson-fermion symmetry  
NT1 chiral symmetry  
NT1 crossing symmetry  
NT1 supersymmetry  
NT1 unitary symmetry  
RT asymmetry  
RT configuration  
RT distribution  
RT invariance principles  
RT orientation  
RT symmetry breaking  
RT symmetry groups

**SYMMETRY BREAKING**  
RT compactification  
RT higgs bosons  
RT instantons  
RT symmetry  
RT symmetry groups

**SYMMETRY GROUPS**  
1997-08-20  
NT1 dynamical groups  
NT2 o groups  
NT1 lie groups  
NT2 anti de sitter group  
NT2 conformal groups  
NT2 de sitter group  
NT2 graded lie groups  
NT2 o groups  
NT2 poincare groups  
NT3 lorentz groups  
NT2 sl groups  
NT2 so groups  
NT3 so-10 groups  
NT3 so-12 groups  
NT3 so-2 groups  
NT3 so-3 groups  
NT3 so-4 groups  
NT3 so-5 groups  
NT3 so-6 groups  
NT3 so-8 groups  
NT2 sp groups  
NT2 su groups  
NT3 su-2 groups  
NT3 su-3 groups  
NT3 su-4 groups  
NT3 su-5 groups  
NT3 su-6 groups  
NT3 su-7 groups  
NT3 su-8 groups  
NT3 su-9 groups



**NT2** sw groups  
**NT2** u groups  
**NT3** u-1 groups  
**NT3** u-12 groups  
**NT3** u-2 groups  
**NT3** u-3 groups  
**NT3** u-4 groups  
**NT3** u-5 groups  
**NT3** u-6 groups  
**NT1** quantum groups  
**NT1** space groups  
*RT* casimir operators  
*RT* current algebra  
*RT* group theory  
*RT* irreducible representations  
*RT* nonunitary representations  
*RT* symmetry  
*RT* symmetry breaking

**sympathectomy**

USE autonomic nervous system  
 USE surgery

**sympathetic nervous system**

USE autonomic nervous system

**SYMPATHOLYTICS**

*UF* adrenergics-blocking agents  
 \*BT1 autonomic nervous system agents  
**NT1** ergotamine  
**NT1** reserpine  
*RT* autonomic nervous system  
*RT* neuroregulators  
*RT* parasympatholytics  
*RT* parasympathomimetics  
*RT* sympathomimetics

**SYMPATHOMIMETICS**

*UF* adrenergics  
 \*BT1 autonomic nervous system agents  
**NT1** adrenaline  
**NT1** amphetamines  
**NT2** benzedrine  
**NT1** dopamine  
**NT1** ephedrine  
**NT1** noradrenaline  
**NT1** serotonin  
**NT2** bufotenine  
**NT1** tyramine  
*RT* autonomic nervous system  
*RT* neuroregulators  
*RT* parasympatholytics  
*RT* parasympathomimetics  
*RT* sympatholytics  
*RT* vasoconstriction  
*RT* vasodilation

**symplectic groups**

USE sp groups

**symposia**

USE meetings

**SYMPTOMS**

**NT1** anemias  
**NT2** ischemia  
**NT2** megaloblastic anemia  
**NT2** sickle cell anemia  
**NT2** thalassemia  
**NT1** ascites  
**NT1** constipation  
**NT1** diarrhea  
**NT1** edema  
**NT1** erythema  
**NT1** fever  
**NT1** heart failure  
**NT1** hemorrhage  
**NT1** hypertension  
**NT1** inflammation  
**NT1** jaundice  
**NT1** leukopenia

**NT2** lymphopenia  
**NT1** nausea  
**NT1** pain  
**NT1** splenomegaly  
**NT1** uremia  
**NT1** vomiting  
*RT* chlorosis  
*RT* diagnosis  
*RT* diseases  
*RT* pathological changes  
*RT* peritonitis

**SYNCHROCYCLOTRONS**

1996-07-18

(Prior to March 1997 CHICAGO SYNCHROCYCLOTRON was a valid ETDE descriptor.)

*UF* chicao synchrocyclotron  
*UF* fm cyclotrons  
*UF* frequency modulated cyclotrons  
*UF* phasotrons  
 \*BT1 cyclic accelerators  
**NT1** berkeley synchrocyclotron  
**NT1** cern synchrocyclotron  
**NT1** dubna synchrocyclotron  
**NT1** harvard synchrocyclotron  
**NT1** harwell synchrocyclotron  
**NT1** iko synchrocyclotron  
**NT1** leningrad synchrocyclotron  
**NT1** mcgill synchrocyclotron  
**NT1** orsay synchrocyclotron  
**NT1** uppsala synchrocyclotron  
*RT* cyclotrons  
*RT* synchrotrons

**SYNCHRONIZATION**

INIS: 1977-10-17; ETDE: 1976-12-16

*RT* antimetabolites  
*RT* cell cycle  
*RT* coincidence methods  
*RT* resonance  
*RT* synchronous cultures  
*RT* tuning

**SYNCHRONOUS CULTURES**

**BT1** cell cultures  
*RT* antimetabolites  
*RT* cell cycle  
*RT* synchronization

**synchrophasotrons**

USE synchrotrons

**SYNCHROTRON OSCILLATIONS**

\*BT1 beam dynamics  
**BT1** oscillations

**SYNCHROTRON RADIATION**

*UF* bremsstrahlung (magnetic)  
*UF* magnetic bremsstrahlung  
 \*BT1 bremsstrahlung  
*RT* cyclotron radiation  
*RT* synchrotron radiation sources  
*RT* wiggler magnets

**SYNCHROTRON RADIATION SOURCES**

INIS: 1981-07-06; ETDE: 1979-05-31  
**BT1** radiation sources  
**NT1** advanced light source  
**NT1** advanced photon source  
**NT1** european synchrotron radiation facility  
**NT1** indus-1  
**NT1** indus-2  
**NT1** kek photon factory  
**NT1** lnls storage ring  
**NT1** nsls  
**NT1** pohang light source  
**NT1** spring-8 storage ring  
**NT1** surf ii storage ring

**NT1** swiss light source  
*RT* light sources  
*RT* storage rings  
*RT* synchrotron radiation  
*RT* x-ray sources

**synchrotron uv radiation facility (nbs)**

INIS: 1993-11-09; ETDE: 2002-06-13

USE surf ii storage ring

**SYNCHROTRONS**

1996-07-18

(BIRMINGHAM SYNCHROTRON, CALTECH SYNCHROTRON, and OMNITRON have been valid ETDE descriptors.)

*UF* birmingham synchrotron  
*UF* caltech synchrotron  
*UF* cit synchrotron  
*UF* omnitron  
*UF* synchrophasotrons  
 \*BT1 cyclic accelerators  
**NT1** bevatron  
**NT1** bonn synchrotron  
**NT1** brookhaven ags  
**NT1** cambridge electron accelerator  
**NT1** cern lhc  
**NT1** cern ps synchrotron  
**NT1** cern sps synchrotron  
**NT1** cornell 10-gev synchrotron  
**NT1** cosmotron  
**NT1** cosy storage ring  
**NT1** desy  
**NT1** erivan synchrotron  
**NT1** escar storage ring  
**NT1** fermilab accelerator  
**NT1** fermilab tevatron  
**NT1** fian synchrotron  
**NT1** frascati synchrotron  
**NT1** himac accelerator  
**NT1** ipns-i synchrotron  
**NT1** itep synchrotron  
**NT1** j-parc  
**NT1** jinr synchrotron  
**NT1** kek synchrotron  
**NT1** lampf ii synchrotron  
**NT1** lep storage rings  
**NT1** lusy  
**NT1** mura synchrotron  
**NT1** nimrod  
**NT1** nina  
**NT1** pakhra synchrotron  
**NT1** princeton synchrotron  
**NT1** saturne  
**NT1** saturne ii  
**NT1** serpukhov synchrotron  
**NT1** serpukhov tevatron  
**NT1** sis synchrotron  
**NT1** superconducting super collider  
**NT1** tokyo synchrotron  
**NT1** tomsk synchrotron  
**NT1** zgs  
*RT* nsls  
*RT* synchrocyclotrons

**syncrude**

1994-09-29

USE synthetic petroleum

**SYNERGISM**

*RT* biochemistry  
*RT* biological effects

**SYNGAS PROCESS**

INIS: 2000-04-12; ETDE: 1981-08-04

\*BT1 waste processing  
*RT* intermediate btu gas  
*RT* materials recovery  
*RT* pyrolysis

**synovia**

USE bone joints

**synroc**

INIS: 1981-02-27; ETDE: 1981-03-13

USE synthetic rocks

**SYNROC PROCESS**

INIS: 1981-11-27; ETDE: 1980-03-29

RT hollandite

RT perovskite

RT radioactive waste processing

RT zirconolite

**syntans**

INIS: 2000-04-12; ETDE: 1976-09-28

Any class of synthetic tanning materials that are sulfonated condensation products of aromatic compounds with formaldehyde or some other aldehyde.

(Prior to April 1994, this was a valid ETDE descriptor.)

SEE aromatics

SEE sulfonic acids

**SYNTHANE PROCESS**

2000-04-12

U.S. Bureau of mines process for producing intermediate- or high-btu gas by reacting coal with steam and oxygen in a fluidized-bed gasifier at 1800 degrees F and 500-1000 psi pressure.

\*BT1 coal gasification

RT sng processes

**SYNTHESIS**

1999-03-09

UF formation (synthesis)

NT1 biosynthesis

NT2 post-translation modification

NT1 chemical preparation

NT1 hydrothermal synthesis

NT1 nucleosynthesis

NT2 heavy ion fusion reactions

NT2 thermonuclear reactions

NT3 impact fusion

NT3 muon-catalyzed fusion

NT1 photosynthesis

**SYNTHESIS GAS**

1997-06-17

A mixture of gases specifically for use in a synthesis process.

\*BT1 gases

RT beacon process

RT htw process

RT methanation

**synthetases**

USE ligases

**synthetic-aperture radar**

INIS: 2000-04-12; ETDE: 1980-03-29

A radar system in which an aircraft moving along a straight path emits microwave pulses continuously at a frequency constant enough to be coherent for a period during which the aircraft may have traveled one kilometer; all echoes returned during the period can then be processed as if a single antenna as long as the flight path had been used.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE radar

**synthetic crude oil**

1994-09-29

USE synthetic petroleum

**SYNTHETIC FUELS**

No natural occurrence; produced by chemical techniques.

SF alternate fuels

SF m-gas process

BT1 fuels

NT1 alcohol fuels

NT2 ethanol fuels

NT2 methanol fuels

NT1 hydrogen fuels

NT1 pyrolytic oils

NT1 synthetic petroleum

RT anaerobic digestion

RT autotrophs

RT biomass conversion plants

RT coal gasification

RT coal liquefaction

RT crg processes

RT fuel gas

RT gasohol program

RT mobil m-gasoline process

RT pyrolysis products

RT pyrolytic gases

RT refuse derived fuels

RT synthetic fuels corporation

RT synthetic fuels industry

RT synthetic fuels refineries

RT wood oils

**SYNTHETIC FUELS CORPORATION**

INIS: 2000-04-12; ETDE: 1980-07-23

Federally funded corporation to finance and expedite development of alternative energy sources.

UF energy security corporation

UF national energy security corporation

\*BT1 us organizations

RT energy policy

RT energy source development

RT renewable energy sources

RT synthetic fuels

RT us energy security act

**SYNTHETIC FUELS INDUSTRY**

INIS: 1992-07-16; ETDE: 1976-10-13

BT1 industry

RT synthetic fuels

RT synthetic fuels refineries

**SYNTHETIC FUELS REFINERIES**

INIS: 1992-07-16; ETDE: 1981-03-16

BT1 industrial plants

RT synthetic fuels

RT synthetic fuels industry

**synthetic lubricants**

INIS: 2000-04-12; ETDE: 1981-06-16

(Prior to March 1997 this was a valid ETDE descriptor.)

USE lubricants

USE synthetic materials

**SYNTHETIC MATERIALS**

INIS: 1999-03-04; ETDE: 1981-05-18

UF synthetic lubricants

BT1 materials

NT1 plastics

NT2 aramids

NT2 bakelite

NT2 formvar

NT2 lucite

NT2 mylar

NT2 nylon

NT2 perspex

NT2 plexiglas

NT2 polystyrene

NT2 polyurethanes

NT3 halthane

NT2 reinforced plastics

NT2 tedlar

NT2 teflon

NT2 thermoplastics

NT1 synthetic rocks

RT fibers

RT petrochemicals

RT rubbers

**synthetic natural gas**

2000-04-12

USE high btu gas

**SYNTHETIC PETROLEUM**

1994-09-29

UF syncrude

UF synthetic crude oil

\*BT1 synthetic fuels

RT coal liquids

RT mobil m-gasoline process

RT petroleum

RT shale oil

**SYNTHETIC ROCKS**

INIS: 1981-02-27; ETDE: 1981-03-13

UF synroc

BT1 rocks

\*BT1 synthetic materials

**synthine process**

2000-04-12

USE fischer-tropsch synthesis

**SYNTHOIL PROCESS**

2000-04-12

U.S. Bureau of mines process for converting coal to fuel oil by feeding coal slurry into a fixed-bed catalytic reactor with turbulently flowing hydrogen. The operating conditions are 2000 to 4000 psig and the coal is liquefied and desulfurized.

\*BT1 coal liquefaction

**SYNTHOL PROCESS**

2000-04-12

A reaction of carbon monoxide and hydrogen with an iron and sodium carbonate catalyst to produce synthetic gasoline.

\*BT1 coal liquefaction

**SYPHILIS**

\*BT1 bacterial diseases

RT spirochaetes

RT urogenital system diseases

**syracuse chemical comminution process**

INIS: 2000-04-12; ETDE: 1982-07-27

The process is based on the phenomenon that certain low molecular weight compounds, such as anhydrous ammonia, fracture coal along its natural maceral boundaries and mineral matter grain boundaries.

(Prior to March 1994, this was a valid ETDE descriptor.)

SEE coal preparation

SEE desulfurization

**SYRIA**

BT1 arab countries

BT1 asia

BT1 developing countries

BT1 middle east

RT oapec

**syrian hamster**

USE hamsters

**syrian miniature neutron source reactor**

2004-03-15

USE srr-1 reactor

**SYRIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**syrups**

INIS: 2000-04-12; ETDE: 1985-03-12

USE molasses

**SYSTEM FAILURE ANALYSIS***Techniques for analysing the events leading to, or following from, a potential, or actual, system failure.*

SF failure propagation

BT1 systems analysis

NT1 failure mode analysis

NT1 fault tree analysis

RT mathematical logic

**systeme accelerateur rhone-alpes**

INIS: 1993-11-09; ETDE: 2002-06-13

USE sara cyclotron

**SYSTEMS ANALYSIS**

1975-11-11

*Used in the fields of technology research and management for problems such as the calculation of failure probabilities and for reliability studies of systems and components.*

NT1 system failure analysis

NT2 failure mode analysis

NT2 fault tree analysis

RT control systems

RT energy analysis

RT failures

RT man-machine systems

RT ncsr

RT parametric analysis

RT reactor protection systems

RT reactor safety

RT reliability

RT safety engineering

RT simulation

RT statistical models

RT statistics

**SZILARD-CHALMERS REACTION**

\*BT1 hot atom chemistry

**SZR TYPE REACTORS**

UF sodium cooled zirconium hydride moderated reactors

\*BT1 hydride moderated reactors

\*BT1 liquid metal cooled reactors

NT1 knk-2 reactor

NT1 knk reactor

RT hydride moderators

RT power reactors

**T-10 TOKAMAK**

INIS: 1983-10-14; ETDE: 1983-11-09

\*BT1 tokamak devices

**T-14 TOKAMAK**

1993-08-09

UF tsp tokamak

\*BT1 tokamak devices

**T-15 TOKAMAK**

INIS: 1984-06-21; ETDE: 1984-07-10

\*BT1 tokamak devices

**t-2200 resonances**

1987-12-21

*(Prior to December 1987 this was a valid descriptor.)*

USE rho3-2250 mesons

**T-7 TOKAMAK**

INIS: 1983-10-14; ETDE: 1983-11-09

\*BT1 tokamak devices

**T ANTIQUARKS**

2007-06-26

\*BT1 antiquarks

\*BT1 t quarks

**T CHANNEL**

RT mandelstam representation

RT particle interactions

RT s channel

RT u channel

**T CODES**

BT1 computer codes

**T INVARIANCE**

UF time-reversal invariance

BT1 invariance principles

NT1 detailed balance principle

**t matrix**

USE s matrix

**T QUARKS**

INIS: 1995-09-14; ETDE: 1995-10-03

UF top quarks

\*BT1 quarks

\*BT1 top particles

NT1 t antiquarks

RT toponium

**T TAURI STARS**

\*BT1 eruptive variable stars

**t2ehp**

INIS: 2000-04-12; ETDE: 1982-12-01

*(Prior to April 1994, this was a valid ETDE descriptor.)*

USE phosphoric acid esters

**t3 hormone**

INIS: 2000-04-12; ETDE: 1975-09-11

USE triiodothyronine

**T3 PROCESS**

INIS: 2000-04-12; ETDE: 1982-08-24

*Semi-continuous surface oil shale retorting process based on N-T-U batch process with added improvements.*

RT oil shales

RT retorting

**t4 hormone**

INIS: 2000-04-12; ETDE: 1975-09-11

USE thyroxine

**TABAKIN POTENTIAL**

BT1 potentials

RT nuclear potential

RT nucleon-nucleon potential

RT nucleons

**TABLE MOUNTAIN AREA**

2000-04-12

\*BT1 south dakota

**tables**

2000-04-12

*(Prior to December 1991 this was a valid ETDE descriptor.)*

SEE data

**TACHYONS***Hypothesized particles that travel faster than the velocity of light; they have an imaginary rest mass.*

\*BT1 postulated particles

**tadpoles**

USE amphibians

USE larvae

**TAGGED PHOTON METHOD**

\*BT1 coincidence methods

RT bremsstrahlung

RT photons

RT polarization

**TAIL ELECTRONS**

1994-02-28

*Electrons that are not runaway but are in the high-energy tail of the kinetic energy distribution.*

UF energetic electrons

UF supra-thermal electrons

\*BT1 electrons

RT distribution functions

RT non-equilibrium plasma

RT runaway electrons

RT tail ions

**TAIL IONS**

1994-02-28

*Ions in the high-energy tail of the kinetic energy distribution.*

UF energetic ions

UF supra-thermal ions

\*BT1 ions

RT distribution functions

RT non-equilibrium plasma

RT tail electrons

**TAILINGS**

INIS: 1981-02-27; ETDE: 1979-05-31

*Solid residue separated in the preparation of various products.*

UF mine tailings

\*BT1 solid wastes

NT1 mill tailings

NT1 oil sand tailings

RT mineral wastes

RT ore processing

RT remedial action

RT separation processes

**TAIWAN**

1993-01-27

UF formosa

\*BT1 china

BT1 islands

**TAIWAN RESEARCH REACTOR**

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 materials testing reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

**TAJIKISTAN**

INIS: 1997-08-20; ETDE: 1993-04-08

*(Until January 1993, this was indexed by USSR.)*

SF soviet union

SF union of soviet socialist republics

SF ussr

BT1 asia

**TAKAHAMA-1 REACTOR**

KEPCO, Takahama, Fukui, Japan.

UF kansai-3 reactor

\*BT1 pwr type reactors

**TAKAHAMA-2 REACTOR**

KEPCO, Takahama, Fukui, Japan.

UF kansai-4 reactor

\*BT1 pwr type reactors

**TAKAHAMA-3 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04

KEPCO, Takahama, Fukui, Japan.

\*BT1 pwr type reactors

**TAKAHAMA-4 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04  
KEPCO, Takahama, Fukui, Japan.  
\*BT1 pwr type reactors

**TAKAHAX PROCESS**

2000-04-12  
Process for removal of up to 99.9% of hydrogen sulfide from gas streams particularly those with low initial hydrogen sulfide concentration and/or high carbon dioxide/hydrogen sulfide ratios.  
\*BT1 desulfurization

**TAKENOYU GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1977-08-09  
BT1 geothermal fields  
RT japan

**TAKINOUE GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1978-04-27  
BT1 geothermal fields  
RT hachimantai  
RT japan

**TALC**

\*BT1 silicate minerals  
RT magnesium silicates

**TALL OIL**

INIS: 1999-05-03; ETDE: 1980-11-08  
A yellow-black, malodorous, resinous admixture derived from wood pulping waste liquors. It is used in lubricants and greases.  
\*BT1 oils

**TALMI INTEGRALS**

BT1 integrals  
RT shell models

**TALSPEAK PROCESS**

INIS: 1979-01-18; ETDE: 1978-08-07  
\*BT1 reprocessing  
RT solvent extraction

**tam**

INIS: 1981-05-11; ETDE: 1981-06-13  
USE tamoxifen

**TAMM-DANCOFF METHOD**

BT1 calculation methods  
RT boson expansion  
RT quantum mechanics

**tammuz-1 reactor**

INIS: 1985-06-07; ETDE: 1985-07-18  
USE tz1 reactor

**tammuz-2 reactor**

INIS: 1985-06-07; ETDE: 1985-07-18  
USE tz2 reactor

**TAMOXIFEN**

INIS: 1981-05-11; ETDE: 1981-06-13  
UF tam  
\*BT1 organic nitrogen compounds  
RT estrogens  
RT receptors

**tan (triacetoneamine-n-oxyl)**

(Prior to July 1985 this was a valid ETDE descriptor.)  
USE triacetoneamine-n-oxyl

**TANDEM ELECTROSTATIC****ACCELERATORS**

INIS: 1996-07-18; ETDE: 1979-08-09  
(Prior to February 1979 this information was indexed to VAN DE GRAAFF ACCELERATORS.)  
UF learn tandem accelerator  
\*BT1 electrostatic accelerators  
NT1 antares tandem accelerator

NT1 crnl mp tandem accelerator  
NT1 jaeri tandem accelerator  
NT1 orsay tandem accelerator  
NT1 vivitron tandem accelerator  
RT dynamitrons  
RT van de graaff accelerators

**tandem mirror devices**

INIS: 2000-04-12; ETDE: 1981-04-17  
SEE tnr reactors  
SEE tmx devices

**tandem mirror experiment at uclll**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE tmx devices

**tandem mirror type reactors**

INIS: 1981-07-06; ETDE: 1981-08-04  
USE tnr reactors

**TANDEM MIRRORS**

1983-09-06  
(Prior to September 1983 this concept in ETDE was indexed to TMX DEVICES.)

\*BT1 magnetic mirrors  
NT1 gamma 10 devices  
NT1 phaedrus mirror devices  
NT1 tara devices  
NT1 tmx devices  
RT tlm configurations  
RT tnr reactors

**TANK CIRCUITS**

BT1 electronic circuits  
RT stored energy

**tank farms**

INIS: 2000-04-12; ETDE: 1979-12-10  
USE storage facilities

**tank type critical assembly**

USE tca reactor

**TANK TYPE REACTORS**

BT1 reactors  
NT1 aarr reactor  
NT1 alrr reactor  
NT1 aquilon reactor  
NT1 atr reactor  
NT1 atsr reactor  
NT1 borax-1 reactor  
NT1 borax-2 reactor  
NT1 borax-3 reactor  
NT1 borax-4 reactor  
NT1 borax-5 reactor  
NT1 br-02 reactor  
NT1 br-1 reactor  
NT1 br-2 reactor  
NT1 br-3-vn reactor  
NT1 cirus reactor  
NT1 cp-3 reactor  
NT1 cp-3m reactor  
NT1 cp-5 reactor  
NT1 dca reactor  
NT1 dido reactor  
NT1 diorit reactor  
NT1 dmtr reactor  
NT1 dr-3 reactor  
NT1 eco reactor  
NT1 el-1 reactor  
NT1 el-2 reactor  
NT1 el-3 reactor  
NT1 eocr reactor  
NT1 eole reactor  
NT1 esada-vesr reactor  
NT1 essor reactor  
NT1 etr reactor  
NT1 etrr-1 reactor  
NT1 ewa reactor  
NT1 ewg-1 reactor  
NT1 fir-1 reactor

NT1 fr-2 reactor  
NT1 frj-2 reactor  
NT1 getr reactor  
NT1 grenoble reactor  
NT1 gtrr reactor  
NT1 hbwr reactor  
NT1 hfbr reactor  
NT1 hfir reactor  
NT1 hfr reactor  
NT1 hifar reactor  
NT1 hwctr reactor  
NT1 igr reactor  
NT1 irr-2 reactor  
NT1 ispra-1 reactor  
NT1 janus reactor  
NT1 jeep-2 reactor  
NT1 jmtr reactor  
NT1 jrr-2 reactor  
NT1 jrr-3 reactor  
NT1 juno reactor  
NT1 kamini reactor  
NT1 litr reactor  
NT1 loft reactor  
NT1 lptr reactor  
NT1 mir reactor  
NT1 mitr reactor  
NT1 mnsr type reactors  
NT2 gharr-1 reactor  
NT2 mnsr-cia reactor  
NT2 mnsr-sd reactor  
NT2 mnsr-sh reactor  
NT2 mnsr-sz reactor  
NT2 nirr-1 reactor  
NT2 parr-2 reactor  
NT2 srr-1 reactor  
NT1 mrr reactor  
NT1 mtr reactor  
NT1 murr reactor  
NT1 nbsr reactor  
NT1 netr reactor  
NT1 nora reactor  
NT1 nru reactor  
NT1 nrx reactor  
NT1 ntr reactor  
NT1 nuclear furnace reactor  
NT1 orphee reactor  
NT1 orr reactor  
NT1 osiris reactor  
NT1 owr reactor  
NT1 pbf reactor  
NT1 pbr reactor  
NT1 pegase reactor  
NT1 pelinduna reactor  
NT1 pik reactor  
NT1 pluto reactor  
NT1 prf reactor  
NT1 prr reactor  
NT1 pse reactor  
NT1 pumima-3 reactor  
NT1 r-1 reactor  
NT1 r-2 reactor  
NT1 r-a reactor  
NT1 ra-0 reactor  
NT1 ra-2 reactor  
NT1 ra-3 reactor  
NT1 ra-4 reactor  
NT1 ra-5 reactor  
NT1 rake-2 reactor  
NT1 rb-3 reactor  
NT1 rospo reactor  
NT1 rpt reactor  
NT1 safari-1 reactor  
NT1 sm-2 reactor  
NT1 spert-1 reactor  
NT1 spert-2 reactor  
NT1 spert-3 reactor  
NT1 sr-1 reactor  
NT1 sr-0a reactor  
NT1 taiwan research reactor

**NT1** tca reactor  
**NT1** thermos reactor  
**NT1** triga-1-michigan reactor  
**NT1** tsr-1 reactor  
**NT1** venus reactor  
**NT1** wntr reactor  
**NT1** wr-1 reactor  
**NT1** wtr reactor  
**NT1** wwr type reactors  
**NT2** budapest training reactor  
**NT2** irt-1 libya reactor  
**NT2** irt-baghdad reactor  
**NT2** lvr-15 reactor  
**NT2** wwr-2 reactor  
**NT2** wwr-k-almaty reactor  
**NT2** wwr-m-kiev reactor  
**NT2** wwr-m-leningrad reactor  
**NT2** wwr-s-bucharest reactor  
**NT2** wwr-s-budapest reactor  
**NT2** wwr-s-cairo reactor  
**NT2** wwr-s-moscow reactor  
**NT2** wwr-s-prague reactor  
**NT2** wwr-s-tashkent reactor  
**NT2** wwr-sm rossendorf reactor  
**NT2** wwr-z reactor  
**NT1** zed-2 reactor  
**NT1** zeep reactor  
**NT1** zlfr reactor  
**NT1** zpr reactor

**TANKER SHIPS**

*INIS: 1992-05-22; ETDE: 1976-03-11*

*UF* crude carriers  
*UF* supertankers  
*UF* ulcc  
*UF* vlcc  
**BT1** ships  
*RT* deep water oil terminals  
*RT* lightering  
*RT* maritime transport  
*RT* petroleum

**TANKS**

(From April 1975 till February 1997 ACCUMULATORS was a valid ETDE descriptor.)

*UF* accumulators  
**BT1** containers  
**NT1** floating roof tanks  
**NT1** hydraulic accumulators  
*RT* hydrogen storage  
*RT* liners  
*RT* sensible heat storage

**TANNIC ACID**

*UF* digallic acid  
*UF* gallotannic acid  
*UF* tannin  
**\*BT1** carboxylic acids  
**\*BT1** polyphenols

**tannin**

USE tannic acid

**TANTALATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

**BT1** oxygen compounds  
**\*BT1** tantalum compounds  
*RT* tantalum oxides

**TANTALITE**

**\*BT1** oxide minerals  
*RT* iron oxides  
*RT* manganese oxides  
*RT* tantalum oxides

**TANTALUM**

**\*BT1** refractory metals

**\*BT1** transition elements

**TANTALUM 155**

*2008-01-16*

**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei  
**\*BT1** proton decay radioisotopes  
**\*BT1** tantalum isotopes

**TANTALUM 156**

*INIS: 1989-07-19; ETDE: 1989-08-01*

**\*BT1** intermediate mass nuclei  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** odd-odd nuclei  
**\*BT1** tantalum isotopes

**TANTALUM 157**

*INIS: 1979-09-18; ETDE: 1979-10-23*

**\*BT1** alpha decay radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** odd-even nuclei  
**\*BT1** tantalum isotopes

**TANTALUM 158**

*INIS: 1979-09-18; ETDE: 1979-10-23*

**\*BT1** alpha decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** odd-odd nuclei  
**\*BT1** tantalum isotopes

**TANTALUM 159**

*INIS: 1979-09-18; ETDE: 1979-10-23*

**\*BT1** alpha decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** odd-even nuclei  
**\*BT1** tantalum isotopes

**TANTALUM 160**

*INIS: 1979-09-18; ETDE: 1979-10-23*

**\*BT1** alpha decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-odd nuclei  
**\*BT1** seconds living radioisotopes  
**\*BT1** tantalum isotopes

**TANTALUM 161**

*INIS: 1979-09-18; ETDE: 1979-10-23*

**\*BT1** alpha decay radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei  
**\*BT1** seconds living radioisotopes  
**\*BT1** tantalum isotopes

**TANTALUM 162**

*INIS: 1985-10-23; ETDE: 1985-11-13*

**\*BT1** intermediate mass nuclei  
**\*BT1** odd-odd nuclei  
**\*BT1** seconds living radioisotopes  
**\*BT1** tantalum isotopes

**TANTALUM 163**

*INIS: 1980-12-01; ETDE: 1980-08-25*

**\*BT1** alpha decay radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei  
**\*BT1** seconds living radioisotopes  
**\*BT1** tantalum isotopes

**TANTALUM 164**

*INIS: 1982-08-27; ETDE: 1982-09-10*

**\*BT1** alpha decay radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-odd nuclei  
**\*BT1** seconds living radioisotopes  
**\*BT1** tantalum isotopes

**TANTALUM 165**

*INIS: 1982-08-27; ETDE: 1982-09-10*

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei  
**\*BT1** seconds living radioisotopes  
**\*BT1** tantalum isotopes

**TANTALUM 166**

*1975-08-22*

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-odd nuclei  
**\*BT1** seconds living radioisotopes  
**\*BT1** tantalum isotopes

**TANTALUM 167**

*INIS: 1976-07-06; ETDE: 1976-04-19*

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-even nuclei  
**\*BT1** tantalum isotopes

**TANTALUM 168**

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-odd nuclei  
**\*BT1** tantalum isotopes

**TANTALUM 169**

*INIS: 1975-10-23; ETDE: 1975-08-19*

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-even nuclei  
**\*BT1** tantalum isotopes

**TANTALUM 170**

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-odd nuclei  
**\*BT1** tantalum isotopes

**TANTALUM 171**

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-even nuclei  
**\*BT1** tantalum isotopes

**TANTALUM 172**

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** odd-odd nuclei  
**\*BT1** tantalum isotopes

**TANTALUM 173**

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** hours living radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-even nuclei  
**\*BT1** tantalum isotopes

**TANTALUM 174**

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** hours living radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** odd-odd nuclei

\*BT1 tantalum isotopes

### TANTALUM 175

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 tantalum isotopes

### TANTALUM 176

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 tantalum isotopes

### TANTALUM 177

\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 tantalum isotopes

### TANTALUM 178

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 tantalum isotopes

### TANTALUM 179

\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 tantalum isotopes  
\*BT1 years living radioisotopes

### TANTALUM 179 TARGET

*INIS: 1986-04-02; ETDE: 1985-12-11*  
BT1 targets

### TANTALUM 180

\*BT1 beta-minus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 tantalum isotopes

### TANTALUM 180 TARGET

*INIS: 1976-02-11; ETDE: 1976-07-12*  
BT1 targets

### TANTALUM 181

\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 stable isotopes  
\*BT1 tantalum isotopes

### TANTALUM 181 TARGET

*ETDE: 1976-07-09*  
BT1 targets

### TANTALUM 182

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 heavy nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 tantalum isotopes

### TANTALUM 182 TARGET

*INIS: 1976-08-17; ETDE: 1976-11-01*  
BT1 targets

### TANTALUM 183

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 tantalum isotopes

### TANTALUM 184

\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 tantalum isotopes

### TANTALUM 185

\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 tantalum isotopes

### TANTALUM 186

\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 tantalum isotopes

### TANTALUM 187

*2008-01-16*

\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 tantalum isotopes

### TANTALUM 188

*2008-01-16*

\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 tantalum isotopes

### TANTALUM 189

*2008-01-16*

\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 tantalum isotopes

### TANTALUM 190

*2008-01-16*

\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 tantalum isotopes

### TANTALUM ADDITIONS

*1996-07-16*

*Alloys containing not more than 1% Ta are listed here.*

\*BT1 tantalum alloys  
NT1 alloy-n-10m

### TANTALUM ALLOY-T111

*1993-10-03*

\*BT1 alloy-ta90w8hf

### TANTALUM ALLOY-T222

*2000-04-12*

\*BT1 tantalum base alloys

### TANTALUM ALLOYS

*1995-02-27*

*Alloys containing more than 1% Ta.*

\*BT1 transition element alloys  
NT1 alloy-b-1900  
NT1 alloy-c-103  
NT1 alloy-mar-m246  
NT1 alloy-ni46cr23co19ti5al4  
NT2 alloy-in-939

NT1 alloy-ni61cr16co9al3ti3w3

NT2 alloy-in-738

NT1 alloy-s-816

NT1 alloy-v-36

NT1 carbonyl

NT1 tantalum additions

NT2 alloy-n-10m

NT1 tantalum base alloys

NT2 alloy-ta90w8hf

NT3 tantalum alloy-t111

NT2 astar 811c

NT2 tantalum alloy-t222

### TANTALUM BASE ALLOYS

*SF alloy-ta-10v*

\*BT1 tantalum alloys

NT1 alloy-ta90w8hf

NT2 tantalum alloy-t111

NT1 astar 811c

NT1 tantalum alloy-t222

### TANTALUM BORIDES

\*BT1 borides

\*BT1 tantalum compounds

### TANTALUM BROMIDES

\*BT1 bromides

\*BT1 tantalum compounds

### TANTALUM CARBIDES

\*BT1 carbides

\*BT1 tantalum compounds

### TANTALUM CHLORIDES

\*BT1 chlorides

\*BT1 tantalum compounds

### TANTALUM COMPLEXES

\*BT1 transition element complexes

### TANTALUM COMPOUNDS

*1997-06-19*

BT1 refractory metal compounds  
BT1 transition element compounds  
NT1 tantalates  
NT1 tantalum borides  
NT1 tantalum bromides  
NT1 tantalum carbides  
NT1 tantalum chlorides  
NT1 tantalum fluorides  
NT1 tantalum hydrides  
NT1 tantalum hydroxides  
NT1 tantalum iodides  
NT1 tantalum nitrides  
NT1 tantalum oxides  
NT1 tantalum phosphates  
NT1 tantalum phosphides  
NT1 tantalum selenides  
NT1 tantalum silicates  
NT1 tantalum silicides  
NT1 tantalum sulfates  
NT1 tantalum sulfides  
NT1 tantalum tellurides  
NT1 tantalum tungstates

### TANTALUM FLUORIDES

\*BT1 fluorides

\*BT1 tantalum compounds

### TANTALUM HYDRIDES

\*BT1 hydrides

\*BT1 tantalum compounds

### TANTALUM HYDROXIDES

\*BT1 hydroxides

\*BT1 tantalum compounds

### TANTALUM IODIDES

\*BT1 iodides

\*BT1 tantalum compounds

### TANTALUM IONS

\*BT1 ions

**TANTALUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 tantalum 155  
 NT1 tantalum 156  
 NT1 tantalum 157  
 NT1 tantalum 158  
 NT1 tantalum 159  
 NT1 tantalum 160  
 NT1 tantalum 161  
 NT1 tantalum 162  
 NT1 tantalum 163  
 NT1 tantalum 164  
 NT1 tantalum 165  
 NT1 tantalum 166  
 NT1 tantalum 167  
 NT1 tantalum 168  
 NT1 tantalum 169  
 NT1 tantalum 170  
 NT1 tantalum 171  
 NT1 tantalum 172  
 NT1 tantalum 173  
 NT1 tantalum 174  
 NT1 tantalum 175  
 NT1 tantalum 176  
 NT1 tantalum 177  
 NT1 tantalum 178  
 NT1 tantalum 179  
 NT1 tantalum 180  
 NT1 tantalum 181  
 NT1 tantalum 182  
 NT1 tantalum 183  
 NT1 tantalum 184  
 NT1 tantalum 185  
 NT1 tantalum 186  
 NT1 tantalum 187  
 NT1 tantalum 188  
 NT1 tantalum 189  
 NT1 tantalum 190

**TANTALUM NITRIDES**

\*BT1 nitrides  
 \*BT1 tantalum compounds

**TANTALUM ORES**

BT1 ores

**TANTALUM OXIDES**

1996-06-28

\*BT1 oxides  
 \*BT1 tantalum compounds  
 RT oxide minerals  
 RT tantalates  
 RT tantalite  
 RT tapiolite

**TANTALUM PHOSPHATES**

1984-01-18

\*BT1 phosphates  
 \*BT1 tantalum compounds

**TANTALUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1976-09-14

\*BT1 phosphides  
 \*BT1 tantalum compounds

**TANTALUM SELENIDES**

1976-02-05

\*BT1 selenides  
 \*BT1 tantalum compounds

**TANTALUM SILICATES**

INIS: 2000-04-12; ETDE: 1979-03-27

\*BT1 silicates  
 \*BT1 tantalum compounds

**TANTALUM SILICIDES**

1979-01-18

\*BT1 silicides  
 \*BT1 tantalum compounds

**TANTALUM SULFATES**

1982-02-10

\*BT1 sulfates  
 \*BT1 tantalum compounds

**TANTALUM SULFIDES**

\*BT1 sulfides  
 \*BT1 tantalum compounds

**TANTALUM TELLURIDES**

INIS: 1980-07-24; ETDE: 1975-11-11

\*BT1 tantalum compounds  
 \*BT1 tellurides

**TANTALUM TUNGSTATES**

INIS: 1979-09-18; ETDE: 1976-04-19

\*BT1 tantalum compounds  
 \*BT1 tungstates

**tanzania (united republic of)**

2003-07-09

USE united republic of tanzania

**tapeworms**

USE cestodes

**TAPIOLITE**

2000-04-12

\*BT1 oxide minerals  
 RT iron oxides  
 RT niobium oxides  
 RT tantalum oxides

**TAPIRO REACTOR**

CNEN, Casaccia Center, Rome, Italy.

\*BT1 fast reactors  
 \*BT1 research reactors  
 \*BT1 test reactors

**TAR**

\*BT1 other organic compounds  
 NT1 bitumens  
 NT2 asphalts  
 NT2 coal tar  
 NT2 thucholite  
 NT1 shale tar  
 RT pitches

**tar sand oil**

INIS: 2000-04-12; ETDE: 1976-07-07

USE bitumens

**tar sand tailings**

1992-05-04

USE oil sand tailings

**TAR SAND TRIANGLE DEPOSIT**

INIS: 2000-04-12; ETDE: 1977-05-07

\*BT1 oil sand deposits  
 RT oil sands  
 RT utah

**tar sands**

1975-09-01

USE oil sands

**TARA DEVICES**

INIS: 1984-07-20; ETDE: 1984-02-23

Tandem mirror experiment at MIT.

\*BT1 tandem mirrors

**TARAPUR-1 REACTOR**

Boisar, Maharashtra, India.

\*BT1 bwr type reactors

**TARAPUR-2 REACTOR**

Boisar, Maharashtra, India.

\*BT1 bwr type reactors

**TARAPUR-3 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd.,  
Boisar, Maharashtra, India.

\*BT1 phwr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**TARAPUR-4 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd.,  
Boisar, Maharashtra, India.

\*BT1 phwr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**TARGET CHAMBERS**

BT1 accelerator facilities  
 RT accelerators  
 RT targets

**target holders**

INIS: 1976-03-25; ETDE: 2002-06-13

USE sample holders

**TARGETS**

1998-01-29

NT1 actinium 227 target  
 NT1 aluminium 25 target  
 NT1 aluminium 26 target  
 NT1 aluminium 27 target  
 NT1 aluminium 28 target  
 NT1 americium 241 target  
 NT1 americium 242 target  
 NT1 americium 243 target  
 NT1 antimony 118 target  
 NT1 antimony 120 target  
 NT1 antimony 121 target  
 NT1 antimony 123 target  
 NT1 antimony 127 target  
 NT1 argon 36 target  
 NT1 argon 37 target  
 NT1 argon 38 target  
 NT1 argon 40 target  
 NT1 arsenic 75 target  
 NT1 astatine 212 target  
 NT1 barium 127 target  
 NT1 barium 130 target  
 NT1 barium 134 target  
 NT1 barium 135 target  
 NT1 barium 136 target  
 NT1 barium 137 target  
 NT1 barium 138 target  
 NT1 barium 139 target  
 NT1 berkelium 249 target  
 NT1 beryllium 10 target  
 NT1 beryllium 11 target  
 NT1 beryllium 6 target  
 NT1 beryllium 7 target  
 NT1 beryllium 8 target  
 NT1 beryllium 9 target  
 NT1 bismuth 207 target  
 NT1 bismuth 208 target  
 NT1 bismuth 209 target  
 NT1 bismuth 210 target  
 NT1 boron 10 target  
 NT1 boron 11 target  
 NT1 boron 12 target  
 NT1 boron 13 target  
 NT1 boron 8 target  
 NT1 bromine 71 target  
 NT1 bromine 76 target  
 NT1 bromine 79 target  
 NT1 bromine 81 target  
 NT1 cadmium 106 target  
 NT1 cadmium 108 target  
 NT1 cadmium 109 target  
 NT1 cadmium 110 target  
 NT1 cadmium 111 target  
 NT1 cadmium 112 target

NT1 cadmium 113 target	NT1 erbium 165 target	NT1 iron 57 target
NT1 cadmium 114 target	NT1 erbium 166 target	NT1 iron 58 target
NT1 cadmium 116 target	NT1 erbium 167 target	NT1 krypton 76 target
NT1 calcium 39 target	NT1 erbium 168 target	NT1 krypton 77 target
NT1 calcium 40 target	NT1 erbium 170 target	NT1 krypton 78 target
NT1 calcium 41 target	NT1 europium 151 target	NT1 krypton 80 target
NT1 calcium 42 target	NT1 europium 152 target	NT1 krypton 82 target
NT1 calcium 43 target	NT1 europium 153 target	NT1 krypton 83 target
NT1 calcium 44 target	NT1 europium 154 target	NT1 krypton 84 target
NT1 calcium 46 target	NT1 europium 155 target	NT1 krypton 85 target
NT1 calcium 48 target	NT1 fermium 253 target	NT1 krypton 86 target
NT1 calcium 49 target	NT1 fermium 254 target	NT1 lanthanum 139 target
NT1 californium 244 target	NT1 fermium 255 target	NT1 laser targets
NT1 californium 246 target	NT1 fermium 256 target	NT1 lead 200 target
NT1 californium 249 target	NT1 fermium 257 target	NT1 lead 202 target
NT1 californium 250 target	NT1 fermium 258 target	NT1 lead 204 target
NT1 californium 251 target	NT1 fermium 259 target	NT1 lead 205 target
NT1 californium 252 target	NT1 fermium 260 target	NT1 lead 206 target
NT1 californium 254 target	NT1 fluorine 16 target	NT1 lead 207 target
NT1 carbon 11 target	NT1 fluorine 17 target	NT1 lead 208 target
NT1 carbon 12 target	NT1 fluorine 18 target	NT1 lead 209 target
NT1 carbon 13 target	NT1 fluorine 19 target	NT1 lead 210 target
NT1 carbon 14 target	NT1 gadolinium 142 target	NT1 lithium 11 target
NT1 carbon 16 target	NT1 gadolinium 148 target	NT1 lithium 6 target
NT1 cerium 136 target	NT1 gadolinium 152 target	NT1 lithium 7 target
NT1 cerium 138 target	NT1 gadolinium 154 target	NT1 lithium 8 target
NT1 cerium 140 target	NT1 gadolinium 155 target	NT1 lithium 9 target
NT1 cerium 141 target	NT1 gadolinium 156 target	NT1 lutetium 174 target
NT1 cerium 142 target	NT1 gadolinium 157 target	NT1 lutetium 175 target
NT1 cerium 144 target	NT1 gadolinium 158 target	NT1 lutetium 176 target
NT1 cesium 131 target	NT1 gadolinium 159 target	NT1 magnesium 23 target
NT1 cesium 132 target	NT1 gadolinium 160 target	NT1 magnesium 24 target
NT1 cesium 133 target	NT1 gallium 65 target	NT1 magnesium 25 target
NT1 cesium 134 target	NT1 gallium 67 target	NT1 magnesium 26 target
NT1 cesium 135 target	NT1 gallium 69 target	NT1 magnesium 27 target
NT1 cesium 137 target	NT1 gallium 71 target	NT1 manganese 51 target
NT1 chlorine 35 target	NT1 germanium 70 target	NT1 manganese 52 target
NT1 chlorine 36 target	NT1 germanium 71 target	NT1 manganese 53 target
NT1 chlorine 37 target	NT1 germanium 72 target	NT1 manganese 54 target
NT1 chromium 50 target	NT1 germanium 73 target	NT1 manganese 55 target
NT1 chromium 52 target	NT1 germanium 74 target	NT1 mercury 193 target
NT1 chromium 53 target	NT1 germanium 75 target	NT1 mercury 196 target
NT1 chromium 54 target	NT1 germanium 76 target	NT1 mercury 198 target
NT1 chromium 56 target	NT1 germanium 86 target	NT1 mercury 199 target
NT1 cobalt 56 target	NT1 gold 187 target	NT1 mercury 200 target
NT1 cobalt 57 target	NT1 gold 193 target	NT1 mercury 201 target
NT1 cobalt 58 target	NT1 gold 194 target	NT1 mercury 202 target
NT1 cobalt 59 target	NT1 gold 195 target	NT1 mercury 204 target
NT1 cobalt 60 target	NT1 gold 196 target	NT1 mercury 206 target
NT1 copper 61 target	NT1 gold 197 target	NT1 molybdenum 100 target
NT1 copper 63 target	NT1 gold 198 target	NT1 molybdenum 92 target
NT1 copper 64 target	NT1 gold 199 target	NT1 molybdenum 94 target
NT1 copper 65 target	NT1 hafnium 174 target	NT1 molybdenum 95 target
NT1 curium 242 target	NT1 hafnium 176 target	NT1 molybdenum 96 target
NT1 curium 243 target	NT1 hafnium 177 target	NT1 molybdenum 97 target
NT1 curium 244 target	NT1 hafnium 178 target	NT1 molybdenum 98 target
NT1 curium 245 target	NT1 hafnium 179 target	NT1 neodymium 142 target
NT1 curium 246 target	NT1 hafnium 180 target	NT1 neodymium 143 target
NT1 curium 247 target	NT1 helium 3 target	NT1 neodymium 144 target
NT1 curium 248 target	NT1 helium 4 target	NT1 neodymium 145 target
NT1 curium 249 target	NT1 helium 6 target	NT1 neodymium 146 target
NT1 curium 250 target	NT1 holmium 165 target	NT1 neodymium 147 target
NT1 deuterium target	NT1 hydrogen 1 target	NT1 neodymium 148 target
NT1 dysprosium 154 target	NT1 indium 110 target	NT1 neodymium 149 target
NT1 dysprosium 156 target	NT1 indium 113 target	NT1 neodymium 150 target
NT1 dysprosium 158 target	NT1 indium 115 target	NT1 neon 20 target
NT1 dysprosium 160 target	NT1 indium 127 target	NT1 neon 21 target
NT1 dysprosium 161 target	NT1 iodine 127 target	NT1 neon 22 target
NT1 dysprosium 162 target	NT1 iodine 128 target	NT1 neptunium 232 target
NT1 dysprosium 163 target	NT1 iodine 129 target	NT1 neptunium 236 target
NT1 dysprosium 164 target	NT1 ion beam targets	NT1 neptunium 237 target
NT1 dysprosium 165 target	NT1 iridium 189 target	NT1 neptunium 238 target
NT1 einsteinium 253 target	NT1 iridium 190 target	NT1 neptunium 239 target
NT1 einsteinium 254 target	NT1 iridium 191 target	NT1 nickel 56 target
NT1 einsteinium 255 target	NT1 iridium 193 target	NT1 nickel 57 target
NT1 electron beam targets	NT1 iridium 194 target	NT1 nickel 58 target
NT1 erbium 162 target	NT1 iron 54 target	NT1 nickel 59 target
NT1 erbium 163 target	NT1 iron 55 target	NT1 nickel 60 target
NT1 erbium 164 target	NT1 iron 56 target	NT1 nickel 61 target



NTI	nickel 62 target	NTI	ruthenium 100 target	NTI	thulium 169 target
NTI	nickel 63 target	NTI	ruthenium 101 target	NTI	thulium 171 target
NTI	nickel 64 target	NTI	ruthenium 102 target	NTI	tin 110 target
NTI	niobium 91 target	NTI	ruthenium 103 target	NTI	tin 112 target
NTI	niobium 92 target	NTI	ruthenium 104 target	NTI	tin 114 target
NTI	niobium 93 target	NTI	ruthenium 96 target	NTI	tin 115 target
NTI	niobium 94 target	NTI	ruthenium 98 target	NTI	tin 116 target
NTI	niobium 95 target	NTI	ruthenium 99 target	NTI	tin 117 target
NTI	niobium 96 target	NTI	samarium 144 target	NTI	tin 118 target
NTI	nitrogen 12 target	NTI	samarium 145 target	NTI	tin 119 target
NTI	nitrogen 13 target	NTI	samarium 146 target	NTI	tin 120 target
NTI	nitrogen 14 target	NTI	samarium 147 target	NTI	tin 122 target
NTI	nitrogen 15 target	NTI	samarium 148 target	NTI	tin 124 target
NTI	nitrogen 16 target	NTI	samarium 149 target	NTI	tin 125 target
NTI	osmium 184 target	NTI	samarium 150 target	NTI	tin 126 target
NTI	osmium 186 target	NTI	samarium 151 target	NTI	titanium 44 target
NTI	osmium 187 target	NTI	samarium 152 target	NTI	titanium 45 target
NTI	osmium 188 target	NTI	samarium 154 target	NTI	titanium 46 target
NTI	osmium 189 target	NTI	scandium 45 target	NTI	titanium 47 target
NTI	osmium 190 target	NTI	scandium 47 target	NTI	titanium 48 target
NTI	osmium 191 target	NTI	selenium 72 target	NTI	titanium 49 target
NTI	osmium 192 target	NTI	selenium 74 target	NTI	titanium 50 target
NTI	osmium 193 target	NTI	selenium 75 target	NTI	tritium target
NTI	oxygen 14 target	NTI	selenium 76 target	NTI	tungsten 180 target
NTI	oxygen 15 target	NTI	selenium 77 target	NTI	tungsten 182 target
NTI	oxygen 16 target	NTI	selenium 78 target	NTI	tungsten 183 target
NTI	oxygen 17 target	NTI	selenium 80 target	NTI	tungsten 184 target
NTI	oxygen 18 target	NTI	selenium 82 target	NTI	tungsten 185 target
NTI	palladium 102 target	NTI	silicon 28 target	NTI	tungsten 186 target
NTI	palladium 104 target	NTI	silicon 29 target	NTI	uranium 232 target
NTI	palladium 105 target	NTI	silicon 30 target	NTI	uranium 233 target
NTI	palladium 106 target	NTI	silicon 32 target	NTI	uranium 234 target
NTI	palladium 107 target	NTI	silicon 34 target	NTI	uranium 235 target
NTI	palladium 108 target	NTI	silver 106 target	NTI	uranium 236 target
NTI	palladium 110 target	NTI	silver 107 target	NTI	uranium 237 target
NTI	palladium 118 target	NTI	silver 108 target	NTI	uranium 238 target
NTI	phosphorus 30 target	NTI	silver 109 target	NTI	uranium 239 target
NTI	phosphorus 31 target	NTI	silver 110 target	NTI	uranium 240 target
NTI	phosphorus 32 target	NTI	sodium 21 target	NTI	uranium 243 target
NTI	platinum 190 target	NTI	sodium 22 target	NTI	vanadium 48 target
NTI	platinum 192 target	NTI	sodium 23 target	NTI	vanadium 49 target
NTI	platinum 194 target	NTI	strontium 84 target	NTI	vanadium 50 target
NTI	platinum 195 target	NTI	strontium 86 target	NTI	vanadium 51 target
NTI	platinum 196 target	NTI	strontium 87 target	NTI	xenon 123 target
NTI	platinum 198 target	NTI	strontium 88 target	NTI	xenon 124 target
NTI	plutonium 235 target	NTI	strontium 90 target	NTI	xenon 125 target
NTI	plutonium 236 target	NTI	sulfur 32 target	NTI	xenon 126 target
NTI	plutonium 237 target	NTI	sulfur 33 target	NTI	xenon 127 target
NTI	plutonium 238 target	NTI	sulfur 34 target	NTI	xenon 128 target
NTI	plutonium 239 target	NTI	sulfur 36 target	NTI	xenon 129 target
NTI	plutonium 240 target	NTI	tantalum 179 target	NTI	xenon 130 target
NTI	plutonium 241 target	NTI	tantalum 180 target	NTI	xenon 131 target
NTI	plutonium 242 target	NTI	tantalum 181 target	NTI	xenon 132 target
NTI	plutonium 243 target	NTI	tantalum 182 target	NTI	xenon 134 target
NTI	plutonium 244 target	NTI	technetium 99 target	NTI	xenon 136 target
NTI	polarized targets	NTI	tellurium 119 target	NTI	ytterbium 168 target
NTI	polonium 208 target	NTI	tellurium 120 target	NTI	ytterbium 169 target
NTI	polonium 210 target	NTI	tellurium 122 target	NTI	ytterbium 170 target
NTI	potassium 39 target	NTI	tellurium 123 target	NTI	ytterbium 171 target
NTI	potassium 40 target	NTI	tellurium 124 target	NTI	ytterbium 172 target
NTI	potassium 41 target	NTI	tellurium 125 target	NTI	ytterbium 173 target
NTI	praseodymium 141 target	NTI	tellurium 126 target	NTI	ytterbium 174 target
NTI	promethium 145 target	NTI	tellurium 128 target	NTI	ytterbium 176 target
NTI	promethium 147 target	NTI	tellurium 130 target	NTI	yttrium 87 target
NTI	promethium 149 target	NTI	terbium 159 target	NTI	yttrium 88 target
NTI	protactinium 231 target	NTI	terbium 160 target	NTI	yttrium 89 target
NTI	protactinium 232 target	NTI	thallium 203 target	NTI	zinc 64 target
NTI	protactinium 233 target	NTI	thallium 205 target	NTI	zinc 65 target
NTI	radium 226 target	NTI	thallium 207 target	NTI	zinc 66 target
NTI	rhenium 184 target	NTI	thallium 209 target	NTI	zinc 67 target
NTI	rhenium 185 target	NTI	thorium 228 target	NTI	zinc 68 target
NTI	rhenium 186 target	NTI	thorium 229 target	NTI	zinc 70 target
NTI	rhenium 187 target	NTI	thorium 230 target	NTI	zirconium 90 target
NTI	rhodium 103 target	NTI	thorium 231 target	NTI	zirconium 91 target
NTI	rhodium 96 target	NTI	thorium 232 target	NTI	zirconium 92 target
NTI	rubidium 84 target	NTI	thorium 233 target	NTI	zirconium 93 target
NTI	rubidium 85 target	NTI	thorium 234 target	NTI	zirconium 94 target
NTI	rubidium 87 target	NTI	thorium 238 target	NTI	zirconium 96 target
NTI	rubidium 88 target	NTI	thorium 239 target	RT	nuclear reactions

RT polarization-asymmetry ratio  
 RT positioning  
 RT scattering  
 RT target chambers

**TARIFFS**

INIS: 1992-02-23; ETDE: 1978-06-14  
*Duties imposed by a government on imported or exported goods.*  
 UF import taxes  
 RT exports  
 RT imports  
 RT taxes  
 RT trade

**TARTARIC ACID**

UF dihydroxysuccinic acid  
 \*BT1 hydroxy acids  
 RT rochelle salt

**tartaric acid esters**

1996-07-23  
 (Until July 1996 this was a valid descriptor.)  
 USE carboxylic acid esters

**TARTRATES**

BT1 carboxylic acid salts  
 NT1 rochelle salt

**tashkent wwr-s reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE wwr-s-tashkent reactor

**TASK SCHEDULING**

INIS: 1992-04-02; ETDE: 1985-01-28  
*The routing of data within a computer.*  
 \*BT1 data processing  
 RT array processors  
 RT executive codes  
 RT parallel processing

**TASMAN SEA**

INIS: 2000-04-12; ETDE: 1977-04-12  
 \*BT1 pacific ocean  
 RT australia  
 RT new zealand  
 RT tasmania

**TASMANIA**

\*BT1 australia  
 BT1 islands  
 RT indian ocean  
 RT pacific ocean  
 RT tasman sea

**TASTE BUDS**

\*BT1 sense organs  
 RT flavor

**taste particles**

INIS: 1978-08-14; ETDE: 1978-10-19  
*Flavor of quarks proposed in certain U(3) gauge theories of electroweak interactions.*  
 (This was a valid descriptor from August 1978 to March 2006.)  
 SEE quarks

**TATARIAN REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13  
*Tatar, Russian Federation.*  
 \*BT1 wwr type reactors

**TATB**

INIS: 2000-04-12; ETDE: 1975-08-19  
 UF 1,3,5-triamino-2,4,6-trinitrobenzene  
 \*BT1 chemical explosives

**tau leptons**

INIS: 1979-04-27; ETDE: 1979-05-25  
 USE tau particles

**TAU NEUTRINOS**

INIS: 1978-08-30; ETDE: 1978-02-14  
 \*BT1 heavy leptons  
 \*BT1 neutrinos

**TAU PARTICLES**

INIS: 1978-07-03; ETDE: 1978-02-14  
 UF tau leptons  
 UF tauons  
 \*BT1 heavy leptons  
 RT electron-muon-tau universality

**tauons**

INIS: 1978-07-03; ETDE: 1978-08-08  
 USE tau particles

**TAURINE**

UF aminoethanesulfonic acid  
 \*BT1 amines  
 \*BT1 sulfonic acids

**tautomerism**

INIS: 2000-04-12; ETDE: 1980-03-04  
 USE isomerization

**TAX CREDITS**

INIS: 2000-07-28; ETDE: 1980-10-27  
*Forms of tax cancellation or exemption. Taxes are levied but remitted in whole or in part, usually on the basis of other taxes paid.*  
 (Prior to November 1980, this concept in ETDE was indexed by FINANCIAL INCENTIVES.)

UF tax offsets  
 BT1 financial incentives  
 RT charges  
 RT economics  
 RT taxes

**TAX LAWS**

INIS: 1990-12-15; ETDE: 1978-03-08  
 (Prior to December 1990, this descriptor was spelled TAX LAW.)  
 BT1 laws

**tax offsets**

INIS: 2000-04-12; ETDE: 1984-03-06  
 USE tax credits

**TAXES**

1997-06-19  
 (From November 1979 till March 1997 SURCHARGES was a valid ETDE descriptor.)

SF surcharges  
 NT1 emissions tax  
 NT1 severance tax  
 NT1 windfall profits tax  
 RT charges  
 RT economic policy  
 RT economics  
 RT financial incentives  
 RT off-highway use  
 RT on-highway use  
 RT tariffs  
 RT tax credits  
 RT trade  
 RT us depletion allowances  
 RT us economic recovery tax act

**TAXICABS**

INIS: 1992-02-18; ETDE: 1979-11-23  
 BT1 vehicles  
 RT automobiles  
 RT occupants  
 RT transportation sector  
 RT transportation systems  
 RT vans

**TAXONOMY**

1976-05-05  
*The study of the general principles of classification.*  
 RT biology

**TBP**

UF tributyl phosphate  
 \*BT1 butyl phosphates

**tbpo (tributylphosphine oxide)**

ETDE: 2005-02-01  
 (Prior to January 2005 TBPO was a valid descriptor.)  
 USE tributylphosphine oxide

**TBR TOKAMAK**

1983-03-16  
 \*BT1 tokamak devices

**TCA REACTOR**

JAERI, Tokai, Ibaraki, Japan.  
 UF tank type critical assembly  
 \*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
 \*BT1 zero power reactors

**TCA TOKAMAK**

INIS: 1984-04-04; ETDE: 1984-05-08  
*Experimental tokamak at Centre de Recherches en Physique des Plasmas, Lausanne.*  
 UF lausanne tokamak  
 UF tokamak chauffage alfvén (switzerland)  
 \*BT1 tokamak devices

**TCABR TOKAMAK**

2004-07-09  
*Tokamak Chauffage Alfvén, Institute of Physics, University of Sao Paulo, Brazil.*  
 UF tokamak chauffage alfvén (brazil)  
 \*BT1 tokamak devices

**TCP**

UF tricresyl phosphates  
 \*BT1 phosphoric acid esters

**tct**

INIS: 1976-03-02; ETDE: 1975-11-26  
 USE two-component torus

**TCV TOKAMAK**

INIS: 1993-10-01; ETDE: 1993-11-08  
*Lausanne, Switzerland.*  
 \*BT1 tokamak devices

**TD-NICKEL**

*Ni-ThO<sub>2</sub> dispersion.*  
 UF nickel-thorium oxide dispersions  
 \*BT1 cermets  
 BT1 dispersions  
 RT nickel  
 RT thorium oxides

**TD-NICKEL CHROMIUM**

*Ni-Cr-ThO<sub>2</sub> dispersion.*  
 UF nickel chromium-td  
 \*BT1 cermets  
 \*BT1 chromium alloys  
 BT1 dispersions  
 \*BT1 nickel base alloys  
 RT thorium oxides

**TD-NMR**

1998-09-23  
*Time Domain Nuclear Magnetic Resonance.*  
 \*BT1 nuclear magnetic resonance

**TDA***UF* decylamine-tris

\*BT1 amines

BT1 chelating agents

**tea**

USE beverages

**TEA LEAVES**

BT1 leaves

*RT* beverages*RT* tea plants**TEA PLANTS***INIS: 1980-07-24; ETDE: 1980-08-12**UF* *camellia sinensis*

\*BT1 magnoliopsida

*RT* beverages*RT* tea leaves**teab***1996-10-23**Tetraethylammonium bromide.*

(Until October 1996 this was a valid descriptor.)

USE bromides

USE quaternary compounds

**teaching***INIS: 1977-03-01; ETDE: 2002-06-13*

USE education

**teaching facilities***INIS: 1983-06-30; ETDE: 2002-06-13*

USE educational facilities

**teak event***1994-10-14**A test made during project hardtack.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

**teal oil**

USE sesame oil

**TEAPOT PROJECT***RT* nuclear weapons**tear canals***INIS: 1977-07-05; ETDE: 2002-06-13*

USE lacrimal ducts

**TEARING INSTABILITY***INIS: 1978-11-24; ETDE: 1978-09-11*

\*BT1 plasma macroinstabilities

*RT* plasma disruption**TECHA RIVER***1996-06-26*

\*BT1 rivers

*RT* russian federation**TECHNETATES***Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 oxygen compounds

\*BT1 technetium compounds

*RT* technetium oxides**TECHNETIUM***UF* *masurium*

\*BT1 refractory metals

\*BT1 transition elements

**TECHNETIUM 100**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 101**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 102**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 103**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 104**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 technetium isotopes

**TECHNETIUM 105**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 106**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 107**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 108**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 109***1976-07-06*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 110***1976-07-06*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 technetium isotopes

**TECHNETIUM 111***INIS: 1988-11-16; ETDE: 1988-12-02*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 112***INIS: 1990-12-05; ETDE: 1991-01-15*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 technetium isotopes

**TECHNETIUM 113***1998-10-21*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 114***2008-01-16*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 technetium isotopes

**TECHNETIUM 115***2008-01-16*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 116***2008-01-16*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 technetium isotopes

**TECHNETIUM 117***2008-01-16*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 118***2008-01-16*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 technetium isotopes

**TECHNETIUM 85***2008-01-16*

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 86***2008-01-16*

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 microseconds living radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 technetium isotopes

**TECHNETIUM 87***2008-01-16*

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 88**

1996-05-14

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 technetium isotopes

**TECHNETIUM 89**

INIS: 1992-09-23; ETDE: 1981-03-16

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 90**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 technetium isotopes

**TECHNETIUM 91**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 92**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 93**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 94**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 95**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 96**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 97**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes

- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes
- \*BT1 years living radioisotopes

**TECHNETIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes
- \*BT1 years living radioisotopes

**TECHNETIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes
- \*BT1 years living radioisotopes

**TECHNETIUM 99 TARGET**

INIS: 1975-10-23; ETDE: 1976-07-09

- BT1 targets

**TECHNETIUM ADDITIONS**

Alloys containing not more than 1% Tc are listed here.

- \*BT1 technetium alloys

**TECHNETIUM ALLOYS**

1995-02-27

Alloys containing more than 1% Tc.

- \*BT1 transition element alloys
- NT1 technetium additions
- NT1 technetium base alloys

**TECHNETIUM BASE ALLOYS**

- \*BT1 technetium alloys

**TECHNETIUM BROMIDES**

1984-08-23

- \*BT1 bromides
- \*BT1 technetium compounds

**TECHNETIUM CARBIDES**

- \*BT1 carbides
- \*BT1 technetium compounds

**TECHNETIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 technetium compounds

**TECHNETIUM COMPLEXES**

- \*BT1 transition element complexes

**TECHNETIUM COMPOUNDS**

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 pertechnetates
- NT1 technetates
- NT1 technetium bromides
- NT1 technetium carbides
- NT1 technetium chlorides
- NT1 technetium fluorides
- NT1 technetium hydrides
- NT1 technetium iodides
- NT1 technetium oxides
- NT1 technetium phosphates
- NT1 technetium selenides
- NT1 technetium sulfides
- NT1 technetium tellurides

**TECHNETIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 technetium compounds

**TECHNETIUM HYDRIDES**

INIS: 1983-03-14; ETDE: 1982-09-10

- \*BT1 hydrides

- \*BT1 technetium compounds

**TECHNETIUM IODIDES**

- \*BT1 iodides
- \*BT1 technetium compounds

**TECHNETIUM IONS**

- \*BT1 ions

**TECHNETIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 technetium 100
- NT1 technetium 101
- NT1 technetium 102
- NT1 technetium 103
- NT1 technetium 104
- NT1 technetium 105
- NT1 technetium 106
- NT1 technetium 107
- NT1 technetium 108
- NT1 technetium 109
- NT1 technetium 110
- NT1 technetium 111
- NT1 technetium 112
- NT1 technetium 113
- NT1 technetium 114
- NT1 technetium 115
- NT1 technetium 116
- NT1 technetium 117
- NT1 technetium 118
- NT1 technetium 85
- NT1 technetium 86
- NT1 technetium 87
- NT1 technetium 88
- NT1 technetium 89
- NT1 technetium 90
- NT1 technetium 91
- NT1 technetium 92
- NT1 technetium 93
- NT1 technetium 94
- NT1 technetium 95
- NT1 technetium 96
- NT1 technetium 97
- NT1 technetium 98
- NT1 technetium 99

**TECHNETIUM OXIDES**

- \*BT1 oxides
- \*BT1 technetium compounds
- RT pertechnetates
- RT technetates

**TECHNETIUM PHOSPHATES**

INIS: 1981-03-10; ETDE: 1980-10-27

- \*BT1 phosphates
- \*BT1 technetium compounds

**TECHNETIUM SELENIDES**

1992-09-17

- \*BT1 selenides
- \*BT1 technetium compounds

**TECHNETIUM SULFIDES**

- \*BT1 sulfides
- \*BT1 technetium compounds

**TECHNETIUM TELLURIDES**

2000-04-12

(From January 1993 to February 2008

TECHNETIUM COMPOUNDS +

TELLURIDES was used for this concept.)

- \*BT1 technetium compounds
- \*BT1 tellurides

**technical information center**

INIS: 2000-04-12; ETDE: 1982-06-07

(Prior to June 1994, this was a valid ETDE

descriptor.)

- USE information centers
- USE us doe

**technical specifications**

USE specifications

**technical writing**

INIS: 2000-04-12; ETDE: 1981-11-24

(Prior to June 1992 this was a valid ETDE descriptor.)

SEE document types  
SEE information

**TECHNOLOGY ASSESSMENT**

INIS: 1991-08-16; ETDE: 1976-07-07

RT appropriate technology  
RT delphi method  
RT feasibility studies  
RT industry

**technology development**

INIS: 1984-10-23; ETDE: 2002-06-13

SEE commercialization

**TECHNOLOGY IMPACTS**

INIS: 1986-05-26; ETDE: 1983-08-25

RT appropriate technology  
RT commercialization  
RT cost benefit analysis  
RT diversification  
RT economic impact  
RT economy  
RT industry  
RT social impact  
RT socio-economic factors  
RT technology transfer

**TECHNOLOGY TRANSFER**

1977-11-21

UF spin-off  
UF transfer of knowledge  
RT commercialization  
RT developing countries  
RT education  
RT industry  
RT information  
RT information dissemination  
RT international cooperation  
RT inventions  
RT nuclear engineering  
RT technology impacts  
RT us ota

**TECHNOLOGY UTILIZATION**

INIS: 1999-07-21; ETDE: 1993-08-31

(Prior to June 1992 this was a valid ETDE descriptor. From June 1992 to August 1993 this concept in ETDE was indexed by COMMERCIALIZATION.)

UF mission analysis  
SF nanotechnology  
RT appropriate technology  
RT commercialization  
RT developed countries  
RT feasibility studies  
RT industry

**TECTONICS**

*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 historical evolution.*

NT1 plate tectonics  
RT ground uplift  
RT metamorphism  
RT petrogenesis  
RT rocks

**TEDLAR**

INIS: 2000-04-12; ETDE: 1979-05-03

\*BT1 fluorinated aliphatic hydrocarbons  
\*BT1 plastics

\*BT1 polyvinyls

**teel oil**

USE sesame oil

**TEETH**

\*BT1 oral cavity  
RT bone tissues  
RT calcium  
RT caries  
RT dentin  
RT dentistry  
RT jaw

**TEFLON**

\*BT1 plastics  
\*BT1 polytetrafluoroethylene

**teheran university research reactor**

INIS: 1993-11-09; ETDE: 2002-06-13

USE utrr reactor

**TEHRAN NUCLEAR RESEARCH CENTRE**

INIS: 1976-10-07; ETDE: 1976-11-01

UF nuclear research centre, tehran

\*BT1 iranian organizations

**TEKTITES**

UF australites  
UF billitonites  
UF moldavites  
UF obsidianites  
RT meteorites  
RT minerals

**tel (tetraethyl lead)**

ETDE: 2005-02-01

(Prior to January 2005 TEL was a valid descriptor.)

USE tetraethyl lead

**TELANGIECTASIS**

\*BT1 cardiovascular diseases  
\*BT1 skin diseases  
\*BT1 vascular diseases  
RT blood vessels

**TELEMETRY**

\*BT1 data transmission  
RT mwd systems

**TELEPHONES**

INIS: 1999-07-05; ETDE: 1976-08-24

RT communications  
RT data transmission  
RT public utilities

**TELESCOPE COUNTERS**

RT coincidence circuits  
RT cosmic ray detection  
RT counting techniques  
RT hodoscopes  
RT radiation detectors

**TELESCOPES**

NT1 pyrhelimeters  
NT1 radio telescopes  
RT borescopes  
RT mirrors  
RT optical systems

**teletherapy**

INIS: 1984-04-04; ETDE: 2002-06-13

USE radiotherapy

**TELEVISION**

RT camera tubes  
RT communications  
RT radiation protection  
RT radio equipment  
RT remote viewing equipment  
RT television cameras

RT video tapes

RT x radiation

**TELEVISION CAMERAS**

INIS: 1992-05-22; ETDE: 1977-03-04

BT1 cameras  
RT television  
RT vidicons

**TELLURATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 oxygen compounds  
BT1 tellurium compounds  
RT tellurium oxides

**TELLURIC ACID**

\*BT1 inorganic acids  
BT1 oxygen compounds  
BT1 tellurium compounds

**TELLURIC SURVEYS**

INIS: 2000-04-12; ETDE: 1976-08-26

*Electrical surveys in which the earth's natural electric field is measured at two or more stations simultaneously and a quantitative estimate of the geoelectric section obtained thereby.*

\*BT1 electrical surveys  
RT geothermal exploration

**TELLURIDES**

1997-06-19

BT1 chalcogenides  
BT1 tellurium compounds  
NT1 aluminium tellurides  
NT1 americium tellurides  
NT1 antimony tellurides  
NT1 arsenic tellurides  
NT1 berkelium tellurides  
NT1 beryllium tellurides  
NT1 bismuth tellurides  
NT1 cadmium tellurides  
NT1 californium tellurides  
NT1 cerium tellurides  
NT1 cesium tellurides  
NT1 chromium tellurides  
NT1 cobalt tellurides  
NT1 copper tellurides  
NT1 curium tellurides  
NT1 dysprosium tellurides  
NT1 erbium tellurides  
NT1 europium tellurides  
NT1 gadolinium tellurides  
NT1 gallium tellurides  
NT1 germanium tellurides  
NT1 gold tellurides  
NT1 hafnium tellurides  
NT1 holmium tellurides  
NT1 indium tellurides  
NT1 iridium tellurides  
NT1 iron tellurides  
NT1 lanthanum tellurides  
NT1 lead tellurides  
NT1 lithium tellurides  
NT1 magnesium tellurides  
NT1 manganese tellurides  
NT1 mercury tellurides  
NT1 molybdenum tellurides  
NT1 neodymium tellurides  
NT1 neptunium tellurides  
NT1 nickel tellurides  
NT1 niobium tellurides  
NT1 palladium tellurides  
NT1 platinum tellurides  
NT1 plutonium tellurides  
NT1 potassium tellurides  
NT1 praseodymium tellurides  
NT1 rhenium tellurides

**NT1** rhodium tellurides  
**NT1** rubidium tellurides  
**NT1** ruthenium tellurides  
**NT1** samarium tellurides  
**NT1** selenium tellurides  
**NT1** silver tellurides  
**NT1** sodium tellurides  
**NT1** tantalum tellurides  
**NT1** technetium tellurides  
**NT1** terbium tellurides  
**NT1** thallium tellurides  
**NT1** thorium tellurides  
**NT1** thulium tellurides  
**NT1** tin tellurides  
**NT1** titanium tellurides  
**NT1** tungsten tellurides  
**NT1** uranium tellurides  
**NT1** vanadium tellurides  
**NT1** ytterbium tellurides  
**NT1** yttrium tellurides  
**NT1** zinc tellurides  
**NT1** zirconium tellurides  
**RT** intermetallic compounds  
**RT** oxytellurides  
**RT** tellurium alloys

**TELLURIUM**

\*BT1 semimetals

**TELLURIUM 105**

2007-04-19

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 106**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 107**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 108**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 109**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 110**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 111**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 112**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 113**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 114**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 115**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 116**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 tellurium isotopes

**TELLURIUM 117**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 tellurium isotopes

**TELLURIUM 118**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 tellurium isotopes

**TELLURIUM 119**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 tellurium isotopes

**TELLURIUM 119 TARGET**

*INIS: 1975-09-01; ETDE: 1976-07-09*  
 BT1 targets

**TELLURIUM 120**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 120 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TELLURIUM 121**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 122**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 122 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TELLURIUM 123**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 stable isotopes  
 \*BT1 tellurium isotopes  
 \*BT1 years living radioisotopes

**TELLURIUM 123 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TELLURIUM 124**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 124 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TELLURIUM 125**

\*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 stable isotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 125 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TELLURIUM 126**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 126 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TELLURIUM 127**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 128**

\*BT1 even-even nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 128 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TELLURIUM 129**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 130**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 130 REACTIONS**

*INIS: 1980-12-01; ETDE: 1981-01-09*  
\*BT1 heavy ion reactions

**TELLURIUM 130 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TELLURIUM 131**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 132**

- \*BT1 beta-minus decay radioisotopes
  - \*BT1 days living radioisotopes
  - \*BT1 even-even nuclei
  - \*BT1 intermediate mass nuclei
  - \*BT1 tellurium isotopes
- RT* radioisotope generators

**TELLURIUM 133**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 134**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 135**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 136**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 137**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 138**

*1976-03-17*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 139**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM 140**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM 141**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM 142**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM ADDITIONS**

- \*BT1 tellurium alloys

**TELLURIUM ALLOYS**

*Alloys containing more than 1% Te.*

- BT1 alloys
- NT1 tellurium additions
- RT* tellurides

**TELLURIUM ARSENIDES**

*INIS: 2000-04-12; ETDE: 1976-02-19*

- \*BT1 arsenides
- BT1 tellurium compounds

**TELLURIUM BROMIDES**

*1975-12-09*

- \*BT1 bromides
- \*BT1 tellurium halides

**TELLURIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 tellurium halides

**TELLURIUM COMPLEXES**

- BT1 complexes

**TELLURIUM COMPOUNDS**

*1997-06-19*

- NT1 oxytellurides
- NT1 tellurates
- NT1 telluric acid
- NT1 tellurides
- NT2 aluminium tellurides
- NT2 americium tellurides
- NT2 antimony tellurides
- NT2 arsenic tellurides
- NT2 berkelium tellurides
- NT2 beryllium tellurides
- NT2 bismuth tellurides
- NT2 cadmium tellurides
- NT2 californium tellurides
- NT2 cerium tellurides
- NT2 cesium tellurides
- NT2 chromium tellurides
- NT2 cobalt tellurides
- NT2 copper tellurides

- NT2 curium tellurides
- NT2 dysprosium tellurides
- NT2 erbium tellurides
- NT2 europium tellurides
- NT2 gadolinium tellurides
- NT2 gallium tellurides
- NT2 germanium tellurides
- NT2 gold tellurides
- NT2 hafnium tellurides
- NT2 holmium tellurides
- NT2 indium tellurides
- NT2 iridium tellurides
- NT2 iron tellurides
- NT2 lanthanum tellurides
- NT2 lead tellurides
- NT2 lithium tellurides
- NT2 magnesium tellurides
- NT2 manganese tellurides
- NT2 mercury tellurides
- NT2 molybdenum tellurides
- NT2 neodymium tellurides
- NT2 neptunium tellurides
- NT2 nickel tellurides
- NT2 niobium tellurides
- NT2 palladium tellurides
- NT2 platinum tellurides
- NT2 plutonium tellurides
- NT2 potassium tellurides
- NT2 praseodymium tellurides
- NT2 rhenium tellurides
- NT2 rhodium tellurides
- NT2 rubidium tellurides
- NT2 ruthenium tellurides
- NT2 samarium tellurides
- NT2 selenium tellurides
- NT2 silver tellurides
- NT2 sodium tellurides
- NT2 tantalum tellurides
- NT2 technetium tellurides
- NT2 terbium tellurides
- NT2 thallium tellurides
- NT2 thorium tellurides
- NT2 thulium tellurides
- NT2 tin tellurides
- NT2 titanium tellurides
- NT2 tungsten tellurides
- NT2 uranium tellurides
- NT2 vanadium tellurides
- NT2 ytterbium tellurides
- NT2 yttrium tellurides
- NT2 zinc tellurides
- NT2 zirconium tellurides
- NT1 tellurium arsenides
- NT1 tellurium halides
- NT2 tellurium bromides
- NT2 tellurium chlorides
- NT2 tellurium fluorides
- NT2 tellurium iodides
- NT1 tellurium hydrides
- NT1 tellurium hydroxides
- NT1 tellurium nitrates
- NT1 tellurium oxides
- NT1 tellurium sulfides

**TELLURIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 tellurium halides

**TELLURIUM HALIDES**

*INIS: 1991-09-16; ETDE: 1975-10-01*

- \*BT1 halides
- BT1 tellurium compounds
- NT1 tellurium bromides
- NT1 tellurium chlorides
- NT1 tellurium fluorides
- NT1 tellurium iodides

**TELLURIUM HYDRIDES**

*INIS: 1977-06-14; ETDE: 1977-01-10*

- \*BT1 hydrides

BT1 tellurium compounds

**TELLURIUM HYDROXIDES**

INIS: 1978-02-23; ETDE: 1978-04-06

\*BT1 hydroxides

BT1 tellurium compounds

**TELLURIUM IODIDES**

\*BT1 iodides

\*BT1 tellurium halides

**TELLURIUM IONS**

\*BT1 ions

**TELLURIUM ISOTOPES**

1999-07-16

BT1 isotopes

NT1 tellurium 105

NT1 tellurium 106

NT1 tellurium 107

NT1 tellurium 108

NT1 tellurium 109

NT1 tellurium 110

NT1 tellurium 111

NT1 tellurium 112

NT1 tellurium 113

NT1 tellurium 114

NT1 tellurium 115

NT1 tellurium 116

NT1 tellurium 117

NT1 tellurium 118

NT1 tellurium 119

NT1 tellurium 120

NT1 tellurium 121

NT1 tellurium 122

NT1 tellurium 123

NT1 tellurium 124

NT1 tellurium 125

NT1 tellurium 126

NT1 tellurium 127

NT1 tellurium 128

NT1 tellurium 129

NT1 tellurium 130

NT1 tellurium 131

NT1 tellurium 132

NT1 tellurium 133

NT1 tellurium 134

NT1 tellurium 135

NT1 tellurium 136

NT1 tellurium 137

NT1 tellurium 138

NT1 tellurium 139

NT1 tellurium 140

NT1 tellurium 141

NT1 tellurium 142

**TELLURIUM NITRATES**

INIS: 1978-05-19; ETDE: 1978-07-05

\*BT1 nitrates

BT1 tellurium compounds

**TELLURIUM ORES**

BT1 ores

**TELLURIUM OXIDES**

\*BT1 oxides

BT1 tellurium compounds

RT moctezumite

RT oxide minerals

RT tellurates

**TELLURIUM SULFIDES**

\*BT1 sulfides

BT1 tellurium compounds

**TELOMERES**

1995-01-27

*Specialized end portions of chromosomes.*

RT chromosomal aberrations

RT chromosomes

RT dna replication

**TELOMERIZATION**

\*BT1 polymerization

**telophase**

USE mitosis

**tem (microscopy)**

INIS: 1982-12-07; ETDE: 1979-01-30

USE transmission electron microscopy

**tem (triethylenemelamine)**

USE alkylating agents

**TEMELIN-1 REACTOR**

INIS: 1986-09-26; ETDE: 1988-02-09

\*BT1 wwer type reactors

**TEMELIN-2 REACTOR**

2003-03-10

\*BT1 wwer type reactors

**TEMPERATE ZONES**

INIS: 1993-03-25; ETDE: 1980-02-11

*Areas or regions between the Tropic of Cancer and the Arctic Circle or between the Tropic of Capricorn and the Antarctic Circle.*

UF zones (temperate)

RT boreal regions

RT climates

**temperature (0 k)**

2000-04-12

USE temperature zero k

**temperature (0000-0013 k)**

2000-04-12

USE temperature range 0000-0013 k

**temperature (0013-0065 k)**

2000-04-12

USE temperature range 0013-0065 k

**temperature (0065-0273 k)**

2000-04-12

USE temperature range 0065-0273 k

**temperature (0273-0400 k)**

2000-04-12

USE temperature range 0273-0400 k

**temperature (0400-1000 k)**

2000-04-12

USE temperature range 0400-1000 k

**temperature (1000-4000 k)**

2000-04-12

USE temperature range 1000-4000 k

**temperature (4000 k and above)**

2000-04-12

USE temperature range over 4000 k

**temperature (ambient)**

INIS: 2000-04-12; ETDE: 1976-05-17

USE ambient temperature

**temperature (atmospheric)**

INIS: 1993-07-06; ETDE: 2002-06-13

USE ambient temperature

**temperature (body)**

USE body temperature

**temperature (debye)**

USE debye temperature

**temperature (electron)**

USE electron temperature

**temperature (global)**

INIS: 1993-07-06; ETDE: 2002-06-13

USE ambient temperature

**temperature (ion)**

USE ion temperature

**temperature (neutron)**

USE neutron temperature

**temperature (nuclear)**

USE nuclear temperature

**temperature (photon)**

USE photon temperature

**temperature (proton)**

USE proton temperature

**temperature (transition)**

USE transition temperature

**TEMPERATURE COEFFICIENT**

BT1 reactivity coefficients

RT doppler coefficient

RT temperature dependence

**TEMPERATURE CONTROL**

1999-04-07

BT1 control

RT air conditioning

RT ambient temperature

RT cooling

RT heating

RT temperature measurement

RT temperature monitoring

RT thermal comfort

RT thermal insulation

RT thermostats

**TEMPERATURE DEPENDENCE**

UF heat effects

UF pyroelectricity

UF temperature effects

UF thermal effects

RT ambient temperature

RT bowing

RT temperature coefficient

RT temperature distribution

RT temperature range

RT thermal hydraulics

RT thermochemical diagrams

RT thermoelasticity

RT vernalization

**TEMPERATURE DISTRIBUTION**

1982-12-01

*Coordinate with the descriptor for the appropriate temperature range.*

(Prior to January 1983, the temperature range was coordinated with SPATIAL DISTRIBUTION.)

RT ambient temperature

RT isotherms

RT spatial distribution

RT temperature dependence

RT temperature gradients

RT thermal hydraulics

**temperature effects**

ETDE: 1975-10-28

(Prior to June 1993, this was a valid ETDE descriptor.)

USE temperature dependence

**TEMPERATURE GRADIENTS**

1986-05-26

*Coordinate with the descriptor for the temperature range involved.*

(Prior to June 1986 this concept was expressed with the aid of TEMPERATURE DISTRIBUTION or SPATIAL DISTRIBUTION.)

UF thermal gradients

NT1 geothermal gradients

RT ambient temperature



RT onager relations  
RT temperature distribution

**TEMPERATURE INVERSIONS**

INIS: 1976-10-29; ETDE: 1976-12-16

*Meteorological phenomena whereby warmer air layers at higher altitudes produce a closed stable air layer at lower altitudes.*

UF atmospheric inversion  
UF inversions (temperature)  
UF thermal inversion  
RT air pollution  
RT earth atmosphere  
RT meteorology

**TEMPERATURE LOGGING**

INIS: 2000-04-12; ETDE: 1977-11-29

*Measurement of well temperature as a function of depth in order to ascertain the presence of anomalies.*

BT1 well logging  
RT temperature measurement

**TEMPERATURE MEASUREMENT**

RT ambient temperature  
RT bolometers  
RT calorimeters  
RT calorimetry  
RT degree days  
RT geothermometers  
RT geothermometry  
RT isotherms  
RT measuring instruments  
RT noise thermometers  
RT optical pyrometers  
RT paleotemperature  
RT pyrometers  
RT reservoir temperature  
RT temperature control  
RT temperature logging  
RT temperature monitoring  
RT temperature surveys  
RT thermocouples  
RT thermography  
RT thermometers  
RT well temperature

**TEMPERATURE MONITORING**

BT1 monitoring  
RT in core instruments  
RT infrared thermography  
RT reactor monitoring systems  
RT temperature control  
RT temperature measurement

**TEMPERATURE NOISE**

BT1 noise  
RT cooling  
RT transients  
RT variations

**TEMPERATURE RANGE**

INIS: 1992-01-23; ETDE: 1992-02-10

NT1 temperature range 0000-0013 k  
NT1 temperature range 0013-0065 k  
NT1 temperature range 0065-0273 k  
NT1 temperature range 0273-0400 k  
NT1 temperature range 0400-1000 k  
NT1 temperature range 1000-4000 k  
NT1 temperature range over 4000 k  
RT ambient temperature  
RT temperature dependence  
RT temperature zero k

**TEMPERATURE RANGE 0000-0013 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to ULTRALOW TEMPERATURE.)

UF milli k range  
UF temperature (0000-0013 k)  
UF ultralow temperature

BT1 temperature range  
RT cryogenics

**TEMPERATURE RANGE 0013-0065 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to VERY LOW TEMPERATURE.)

UF temperature (0013-0065 k)  
UF very low temperature  
BT1 temperature range  
RT cryogenics

**TEMPERATURE RANGE 0065-0273 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to LOW TEMPERATURE.)

UF low temperature  
UF temperature (0065-0273 k)  
BT1 temperature range  
RT cryogenics  
RT freezing out

**TEMPERATURE RANGE 0273-0400 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to MEDIUM TEMPERATURE.)

UF medium temperature  
UF temperature (0273-0400 k)  
BT1 temperature range

**TEMPERATURE RANGE 0400-1000 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to HIGH TEMPERATURE.)

UF high temperature  
UF temperature (0400-1000 k)  
BT1 temperature range

**TEMPERATURE RANGE 1000-4000 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to VERY HIGH TEMPERATURE.)

UF temperature (1000-4000 k)  
UF very high temperature  
BT1 temperature range

**TEMPERATURE RANGE OVER 4000 K**

INIS: 1992-07-03; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to ULTRAHIGH TEMPERATURE.)

UF temperature (4000 k and above)  
UF ultrahigh temperature  
BT1 temperature range

**TEMPERATURE SURVEYS**

INIS: 2000-01-21; ETDE: 1980-02-11

UF thermal surveys  
\*BT1 geophysical surveys  
RT geothermal exploration  
RT temperature measurement

**TEMPERATURE ZERO K**

INIS: 1992-09-30; ETDE: 1992-02-10

(Until September 1992, this concept was indexed by ABSOLUTE ZERO TEMPERATURE.)

UF absolute zero temperature  
UF temperature (0 k)  
RT cryogenics  
RT temperature range

**TEMPERING**

BT1 heat treatments

**TEMPORAL DOSE DISTRIBUTIONS**

BT1 radiation dose distributions  
RT chronic irradiation  
RT cumulative radiation effects  
RT dose rates  
RT fractionated irradiation  
RT integral doses

RT irradiation procedures  
RT pulsed irradiation  
RT time dependence

**TENDONS**

INIS: 1992-01-16; ETDE: 1992-02-14

\*BT1 connective tissue  
RT muscles

**tendons (structural)**

INIS: 2000-04-12; ETDE: 1978-09-11

USE cables

**tendon**

INIS: 1996-07-23; ETDE: 1978-12-20

(Prior to March 1997 this was a valid ETDE descriptor.)

USE stainless steels

**TENNESSEE**

1997-06-19

\*BT1 usa

NT1 chattanooga  
NT1 oak ridge  
RT chattanooga formation  
RT clinch river  
RT cumberland river  
RT kingston steam plant  
RT little tennessee river  
RT mississippi river  
RT nuclear fuel recovery and recycling center  
RT oak ridge reservation  
RT orgdp  
RT ornl  
RT tennessee river  
RT tennessee valley region  
RT y-12 plant

**TENNESSEE RIVER**

1997-06-19

\*BT1 rivers  
RT alabama  
RT kentucky  
RT tennessee  
RT tennessee valley region

**tennessee tokamak**

INIS: 2000-04-12; ETDE: 1984-05-08

USE tentok reactors

**TENNESSEE VALLEY AUTHORITY**

INIS: 1997-06-19; ETDE: 1976-01-07

UF tva  
\*BT1 us organizations  
RT kingston steam plant  
RT little tennessee river  
RT paradise steam plant  
RT shawnee steam plant  
RT tennessee valley region  
RT widows creek steam plant

**tennessee valley authority reactor-1**

ETDE: 2002-06-13

USE tva-1 reactor

**tennessee valley authority reactor-2**

ETDE: 2002-06-13

USE tva-2 reactor

**TENNESSEE VALLEY REGION**

INIS: 2000-04-12; ETDE: 1978-09-13

BT1 watersheds  
RT alabama  
RT clinch river  
RT kentucky  
RT little tennessee river  
RT tennessee  
RT tennessee river  
RT tennessee valley authority

**TENSILE PROPERTIES**

- UF* strength (tensile)  
*UF* tensile strength  
 BT1 mechanical properties  
 NT1 ductility  
 NT1 flexibility  
 RT compression strength  
 RT shear  
 RT strain rate  
 RT strains  
 RT stresses  
 RT ultimate strength  
 RT yield strength

**tensile strength**

- USE tensile properties

**tensiometers**

*INIS: 2000-04-12; ETDE: 1976-09-28*  
 Use descriptor below along with descriptors for what is being measured, e.g. SURFACE TENSION, SOILS + GROUND WATER, if appropriate.  
 (Prior to March 1997 this was a valid descriptor.)

- SEE measuring instruments  
 SEE moisture gages  
 SEE strain gages

**tension (surface)**

- USE surface tension

**SENSOR DOMINANCE MODEL**

- UF* tensor meson dominance  
 \*BT1 particle models  
 RT tensor mesons

**SENSOR FIELDS**

*INIS: 1992-10-19; ETDE: 1992-11-04*  
 RT quantum field theory

**SENSOR FORCES**

- RT nuclear forces  
 RT potentials  
 RT tensors  
 RT vectors

**tensor meson dominance**

- USE tensor dominance model

**TENSOR MESONS**

1995-08-07  
 Mesons with spin higher than 1.  
 \*BT1 mesons  
 NT1 a2-1320 mesons  
 NT1 a4-2040 mesons  
 NT1 a6-2450 mesons  
 NT1 chi b2-9915 mesons  
 NT1 chi2-3555 mesons  
 NT1 d\*2-2460 mesons  
 NT1 f2-1270 mesons  
 NT1 f2-1430 mesons  
 NT1 f2-1720 mesons  
 NT1 f2-1810 mesons  
 NT1 f2-2010 mesons  
 NT1 f2-2300 mesons  
 NT1 f2-2340 mesons  
 NT1 f2 prime-1525 mesons  
 NT1 f4-2050 mesons  
 NT1 f4-2300 mesons  
 NT1 f6-2510 mesons  
 NT1 k\*2-1430 mesons  
 NT1 k\*3-1780 mesons  
 NT1 k\*4-2045 mesons  
 NT1 k2-1770 mesons  
 NT1 k2-1820 mesons  
 NT1 omega3-1670 mesons  
 NT1 phi3-1850 mesons  
 NT1 pi2-1670 mesons  
 NT1 pi2-2100 mesons  
 NT1 rho3-1690 mesons

- NT1 rho3-2250 mesons  
 NT1 rho5-2350 mesons  
 RT meson nonets  
 RT noncentral forces  
 RT tensor dominance model

**TENSORS**

- NT1 dielectric tensor  
 NT1 energy-momentum tensor  
 NT1 ricci tensor  
 NT1 vectors  
 NT2 isovectors  
 RT mathematics  
 RT metrics  
 RT scalars  
 RT tensor forces

**TENTOK REACTORS**

*INIS: 2000-04-12; ETDE: 1984-05-08*  
 3000-mw(t) plants fueled with D-T in D-shaped plasma with double-null poloidal divertor.

- UF* tennessee tokamak  
 \*BT1 tokamak type reactors

**teollisuuden voima oy-1 reactor**

*INIS: 1993-11-09; ETDE: 2002-06-13*  
 USE olkiluoto-1 reactor

**teollisuuden voima oy-2 reactor**

*INIS: 1993-11-09; ETDE: 2002-06-13*  
 USE olkiluoto-2 reactor

**teollisuuden voima oy-3 reactor**

2005-09-08  
 USE olkiluoto-3 reactor

**terahertz frequency range**

2003-03-21  
 USE thz range

**TERATOGEN SCREENING**

*INIS: 2000-04-12; ETDE: 1981-12-14*  
*UF* screening (teratogen)  
 RT mutagen screening  
 RT teratogenesis  
 RT teratogens  
 RT testing

**TERATOGENESIS**

- RT biological radiation effects  
 RT congenital malformations  
 RT growth  
 RT teratogen screening  
 RT teratogens

**TERATOGENS**

*INIS: 1983-09-06; ETDE: 1980-08-25*  
 RT carcinogens  
 RT congenital malformations  
 RT drugs  
 RT fetuses  
 RT genetic effects  
 RT ionizing radiations  
 RT mutagens  
 RT neonates  
 RT teratogen screening  
 RT teratogenesis

**TERAWATT POWER RANGE**

*INIS: 1988-04-15; ETDE: 1989-09-18*  
 BT1 power range  
 NT1 power range 01-10 tw  
 NT1 power range 10-100 tw  
 NT1 power range 100-1000 tw

**TERBIUM**

- \*BT1 rare earths

**TERBIUM 135**

2007-04-23  
 \*BT1 microseconds living radioisotopes

- \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 terbium isotopes

**TERBIUM 136**

2007-04-23

- \*BT1 electron capture radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 terbium isotopes

**TERBIUM 137**

2007-04-23

- \*BT1 electron capture radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 terbium isotopes

**TERBIUM 138**

2007-04-23

- \*BT1 electron capture radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 terbium isotopes

**TERBIUM 139**

*INIS: 1999-12-23; ETDE: 2000-07-14*

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 terbium isotopes

**TERBIUM 140**

*INIS: 1987-02-25; ETDE: 1987-05-01*

- \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 terbium isotopes

**TERBIUM 141**

*INIS: 1988-04-15; ETDE: 1988-05-23*

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 terbium isotopes

**TERBIUM 142**

2007-04-23

- \*BT1 electron capture radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 terbium isotopes

**TERBIUM 143**

1985-06-07

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 terbium isotopes

**TERBIUM 144**

*INIS: 1982-06-09; ETDE: 1982-03-10*

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

\*BT1 terbium isotopes

### TERBIUM 145

*INIS: 1982-06-09; ETDE: 1982-03-29*

\*BT1 beta-plus decay radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes

### TERBIUM 146

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes

### TERBIUM 147

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

### TERBIUM 148

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

### TERBIUM 149

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

### TERBIUM 150

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

### TERBIUM 151

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes

### TERBIUM 152

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

### TERBIUM 153

\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

### TERBIUM 154

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

### TERBIUM 155

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

### TERBIUM 156

\*BT1 beta-minus decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

### TERBIUM 157

\*BT1 electron capture radioisotopes  
\*BT1 internal conversion radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes  
\*BT1 years living radioisotopes

### TERBIUM 158

\*BT1 beta-minus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes  
\*BT1 years living radioisotopes

### TERBIUM 159

\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 stable isotopes  
\*BT1 terbium isotopes

### TERBIUM 159 TARGET

*ETDE: 1976-07-09*

BT1 targets

### TERBIUM 160

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

### TERBIUM 160 TARGET

*INIS: 1979-04-27; ETDE: 1979-05-25*

BT1 targets

### TERBIUM 161

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

### TERBIUM 162

\*BT1 beta-minus decay radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

### TERBIUM 163

\*BT1 beta-minus decay radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

### TERBIUM 164

\*BT1 beta-minus decay radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

### TERBIUM 165

*INIS: 1986-04-28; ETDE: 1986-07-03*

\*BT1 beta-minus decay radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

### TERBIUM 166

*1996-11-27*

\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes

### TERBIUM 167

*2007-04-23*

\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes

### TERBIUM 168

*2007-04-23*

\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes

### TERBIUM 169

*2007-04-23*

\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes

### TERBIUM 170

*2007-04-23*

\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes

### TERBIUM 171

*2007-04-23*

\*BT1 beta-minus decay radioisotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

### TERBIUM ADDITIONS

*Alloys containing not more than 1% Tb are listed here.*

\*BT1 rare earth additions  
\*BT1 terbium alloys

### TERBIUM ALLOYS

*Alloys containing more than 1% Tb.*

\*BT1 rare earth alloys  
NT1 terbium additions

- NT1 terbium base alloys
- TERBIUM ARSENIDES**  
*INIS: 1996-07-08; ETDE: 1976-09-14*  
 (From June 1996 to February 2008 TERBIUM COMPOUNDS + ARSENIDES was used for this concept.)  
 \*BT1 arsenides  
 \*BT1 terbium compounds
- TERBIUM BASE ALLOYS**  
 \*BT1 terbium alloys
- TERBIUM BORIDES**  
 \*BT1 borides  
 \*BT1 terbium compounds
- TERBIUM BROMIDES**  
 \*BT1 bromides  
 \*BT1 terbium compounds
- TERBIUM CARBIDES**  
 \*BT1 carbides  
 \*BT1 terbium compounds
- TERBIUM CARBONATES**  
 \*BT1 carbonates  
 \*BT1 terbium compounds
- TERBIUM CHLORIDES**  
 \*BT1 chlorides  
 \*BT1 terbium compounds
- TERBIUM COMPLEXES**  
 \*BT1 rare earth complexes
- TERBIUM COMPOUNDS**  
*1996-07-08*  
 BT1 rare earth compounds  
 NT1 terbium arsenides  
 NT1 terbium borides  
 NT1 terbium bromides  
 NT1 terbium carbides  
 NT1 terbium carbonates  
 NT1 terbium chlorides  
 NT1 terbium fluorides  
 NT1 terbium hydrides  
 NT1 terbium hydroxides  
 NT1 terbium iodides  
 NT1 terbium nitrates  
 NT1 terbium nitrides  
 NT1 terbium oxides  
 NT1 terbium perchlorates  
 NT1 terbium phosphates  
 NT1 terbium phosphides  
 NT1 terbium selenides  
 NT1 terbium silicides  
 NT1 terbium sulfates  
 NT1 terbium sulfides  
 NT1 terbium tellurides
- TERBIUM FLUORIDES**  
 \*BT1 fluorides  
 \*BT1 terbium compounds
- TERBIUM HYDRIDES**  
 \*BT1 hydrides  
 \*BT1 terbium compounds
- TERBIUM HYDROXIDES**  
 \*BT1 hydroxides  
 \*BT1 terbium compounds
- TERBIUM IODIDES**  
 \*BT1 iodides  
 \*BT1 terbium compounds
- TERBIUM IONS**  
 \*BT1 ions
- TERBIUM ISOTOPES**  
 BT1 isotopes  
 NT1 terbium 135  
 NT1 terbium 136
- NT1 terbium 137  
 NT1 terbium 138  
 NT1 terbium 139  
 NT1 terbium 140  
 NT1 terbium 141  
 NT1 terbium 142  
 NT1 terbium 143  
 NT1 terbium 144  
 NT1 terbium 145  
 NT1 terbium 146  
 NT1 terbium 147  
 NT1 terbium 148  
 NT1 terbium 149  
 NT1 terbium 150  
 NT1 terbium 151  
 NT1 terbium 152  
 NT1 terbium 153  
 NT1 terbium 154  
 NT1 terbium 155  
 NT1 terbium 156  
 NT1 terbium 157  
 NT1 terbium 158  
 NT1 terbium 159  
 NT1 terbium 160  
 NT1 terbium 161  
 NT1 terbium 162  
 NT1 terbium 163  
 NT1 terbium 164  
 NT1 terbium 165  
 NT1 terbium 166  
 NT1 terbium 167  
 NT1 terbium 168  
 NT1 terbium 169  
 NT1 terbium 170  
 NT1 terbium 171
- TERBIUM NITRATES**  
 \*BT1 nitrates  
 \*BT1 terbium compounds
- TERBIUM NITRIDES**  
 \*BT1 nitrides  
 \*BT1 terbium compounds
- TERBIUM OXIDES**  
 \*BT1 oxides  
 \*BT1 terbium compounds
- TERBIUM PERCHLORATES**  
 \*BT1 perchlorates  
 \*BT1 terbium compounds
- TERBIUM PHOSPHATES**  
 \*BT1 phosphates  
 \*BT1 terbium compounds
- TERBIUM PHOSPHIDES**  
*INIS: 1977-01-25; ETDE: 1976-08-04*  
 \*BT1 phosphides  
 \*BT1 terbium compounds
- TERBIUM SELENIDES**  
*INIS: 1985-03-15; ETDE: 1978-09-13*  
 \*BT1 selenides  
 \*BT1 terbium compounds
- TERBIUM SILICIDES**  
 \*BT1 silicides  
 \*BT1 terbium compounds
- TERBIUM SULFATES**  
 \*BT1 sulfates  
 \*BT1 terbium compounds
- TERBIUM SULFIDES**  
 \*BT1 sulfides  
 \*BT1 terbium compounds
- TERBIUM TELLURIDES**  
*INIS: 1978-02-23; ETDE: 1977-10-20*  
 \*BT1 tellurides  
 \*BT1 terbium compounds

**TEREPHTHALIC ACID**

- UF benzenedicarboxylic acid-para  
 \*BT1 dicarboxylic acids  
 RT dacron

**TERMINAL FACILITIES**

- INIS: 1999-03-16; ETDE: 1977-03-04*  
 UF facilities (terminal)  
 NT1 deep water oil terminals  
 RT energy facilities  
 RT liquefied natural gas  
 RT maintenance facilities  
 RT storage facilities

**TERNARY ALLOY SYSTEMS**

- BT1 alloy systems

**TERNARY FISSION**

- \*BT1 fission

**TERNE-METAL**

- 2000-04-12*  
 \*BT1 antimony alloys  
 \*BT1 lead base alloys  
 \*BT1 tin alloys

**TERPENES**

- 1996-10-23*  
 UF camphene  
 UF geraniol  
 BT1 organic compounds  
 NT1 camphor  
 NT1 carotenoids  
 NT1 squalene  
 NT1 turpentine  
 RT oils

**terphenyl-meta**

- 1996-10-23*  
 (Until October 1996 this was a valid descriptor.)  
 USE terphenyls

**TERPHENYL-ORTHO**

- \*BT1 terphenyls

**TERPHENYL-PARA**

- \*BT1 terphenyls

**TERPHENYLS**

- 1996-10-23*  
 (Prior to March 1997 TERPHENYL-META was a valid ETDE descriptor.)  
 UF terphenyl-meta  
 \*BT1 polyphenyls  
 NT1 terphenyl-ortho  
 NT1 terphenyl-para  
 RT liquid scintillators  
 RT plastic scintillators

**terramycin**

- USE oxytetracycline

**terrestrial background**

- USE background radiation

**TERRESTRIAL ECOSYSTEMS**

- 2000-05-24*  
 BT1 ecosystems  
 NT1 rangelands  
 NT1 savannas  
 NT1 swamps  
 RT arid lands  
 RT deserts  
 RT forests  
 RT islands  
 RT land resources  
 RT soils  
 RT tundra

**territorial seas**

- INIS: 1976-12-08; ETDE: 2002-06-13*  
 USE territorial waters

**TERRITORIAL WATERS**

1999-10-21

*Waters under the sovereign jurisdiction of a nation or state including both marginal sea and inland waters.*

UF territorial seas  
 BT1 surface waters  
 RT coastal waters  
 RT continental shelf  
 RT fishery laws  
 RT government policies  
 RT high seas  
 RT inland waterways  
 RT maritime laws  
 RT nuclear ship visits  
 RT seas

**terrorism**

INIS: 2000-04-12; ETDE: 1987-05-06

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE proliferation  
 SEE sabotage  
 SEE security  
 SEE vulnerability

**TERTIARY PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

UF neogene period  
 UF oligocene epoch  
 UF paleocene epoch  
 UF paleogene period  
 \*BT1 cenozoic era  
 NT1 eocene epoch  
 NT1 miocene epoch  
 NT1 pliocene epoch

**tertiary recovery**

INIS: 1991-10-22; ETDE: 1976-02-23

USE enhanced recovery

**terylene**

USE dacron

**tesi devices**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE pinch devices

**TESLA LINEAR COLLIDER**

INIS: 2005-10-27; ETDE: 2002-09-17

*TeV Energy Superconducting Linear Accelerator.*

\*BT1 linear colliders

**TEST FACILITIES**

1997-06-17

*Facilities to test the technical feasibility of a conceceptor to provide the technical basis for similar facilities in larger sizes.*

UF facilities (test)  
 UF international fusion superconducting magnet test facility  
 UF liquid metal test facilities  
 NT1 advanced components test facility  
 NT1 central receiver test facility  
 NT1 cnrs solar facility  
 NT1 felix facility  
 NT1 msstf  
 NT1 test reactors  
 NT2 aipfr reactor  
 NT2 arbus reactor  
 NT2 astr reactor  
 NT2 astra reactor  
 NT2 atrp reactor  
 NT2 atr reactor  
 NT2 barn reactor  
 NT2 bawtr reactor  
 NT2 bgr reactor  
 NT2 borax-5 reactor

NT2 br-02 reactor  
 NT2 brr reactor  
 NT2 cesnef reactor  
 NT2 cirus reactor  
 NT2 cp-5 reactor  
 NT2 dhruva reactor  
 NT2 dimple reactor  
 NT2 diorit reactor  
 NT2 ebor reactor  
 NT2 ebr-1 reactor  
 NT2 eco reactor  
 NT2 eocr reactor  
 NT2 esada-vesr reactor  
 NT2 essor reactor  
 NT2 etr reactor  
 NT2 etrc reactor  
 NT2 fff reactor  
 NT2 fir-1 reactor  
 NT2 fmr reactor  
 NT2 fmr reactor  
 NT2 fmr reactor  
 NT2 fr-2 reactor  
 NT2 frctf reactor  
 NT2 frg-1 reactor  
 NT2 frn reactor  
 NT2 getr reactor  
 NT2 grenoble reactor  
 NT2 gtr reactor  
 NT2 gtr reactor  
 NT2 hanaro reactor  
 NT2 harmonie reactor  
 NT2 herald reactor  
 NT2 hero reactor  
 NT2 hew-305 reactor  
 NT2 hfir reactor  
 NT2 hifar reactor  
 NT2 hre-2 reactor  
 NT2 httr reactor  
 NT2 htr-10 reactor  
 NT2 irl reactor  
 NT2 irr-1 reactor  
 NT2 irt-2000 djakarta reactor  
 NT2 irt-2000 moscow reactor  
 NT2 irt-baghdad reactor  
 NT2 ispra-1 reactor  
 NT2 jmtr reactor  
 NT2 kalpakkam lmfr reactor  
 NT2 loft reactor  
 NT2 mzf reactor  
 NT2 netr reactor  
 NT2 nru reactor  
 NT2 ntr reactor  
 NT2 orphee reactor  
 NT2 ovr reactor  
 NT2 pat reactor  
 NT2 pegase reactor  
 NT2 proteus reactor  
 NT2 ra-3 reactor  
 NT2 ra-4 reactor  
 NT2 ra-5 reactor  
 NT2 ra-6 reactor  
 NT2 ra-8 reactor  
 NT2 rapsodie reactor  
 NT2 rts-1 reactor  
 NT2 slc prototype reactor  
 NT2 safari-1 reactor  
 NT2 sbr-5 reactor  
 NT2 snaptran reactors  
 NT2 stf reactor  
 NT2 tapiro reactor  
 NT2 tory-2a reactor  
 NT2 tory-2c reactor  
 NT2 treat reactor  
 NT2 triga-1-michigan reactor  
 NT2 triga-2-pavia reactor  
 NT2 tsr-1 reactor  
 NT2 tsr-2 reactor  
 NT2 urr reactor  
 NT2 uvar reactor  
 NT2 viper reactor

NT2 wr-1 reactor  
 NT2 wtr reactor  
 NT1 tonopah test range  
 NT1 tritium systems test assembly  
 NT1 white sands solar facility  
 RT distributed structures  
 RT laboratory equipment  
 RT mockup  
 RT nuclear facilities  
 RT stffua  
 RT testing

**test fast breeder reactor kalpakkam**

1993-11-10

USE kalpakkam lmfr reactor

**TEST PARTICLES**

RT charged particles

**TEST REACTORS**

1998-01-29

*A facility to test the technical feasibility of a conceceptor to provide the technical basis for a similar facility in a larger size.*

\*BT1 research and test reactors  
 BT1 test facilities  
 NT1 aipfr reactor  
 NT1 arbus reactor  
 NT1 astr reactor  
 NT1 astra reactor  
 NT1 atrp reactor  
 NT1 atr reactor  
 NT1 barn reactor  
 NT1 bawtr reactor  
 NT1 bgr reactor  
 NT1 borax-5 reactor  
 NT1 br-02 reactor  
 NT1 brr reactor  
 NT1 cesnef reactor  
 NT1 cirus reactor  
 NT1 cp-5 reactor  
 NT1 dhruva reactor  
 NT1 dimple reactor  
 NT1 diorit reactor  
 NT1 ebor reactor  
 NT1 ebr-1 reactor  
 NT1 eco reactor  
 NT1 eocr reactor  
 NT1 esada-vesr reactor  
 NT1 essor reactor  
 NT1 etr reactor  
 NT1 etrc reactor  
 NT1 fff reactor  
 NT1 fir-1 reactor  
 NT1 fmr reactor  
 NT1 fmr reactor  
 NT1 fr-2 reactor  
 NT1 frctf reactor  
 NT1 frg-1 reactor  
 NT1 frn reactor  
 NT1 getr reactor  
 NT1 grenoble reactor  
 NT1 gtr reactor  
 NT1 gtr reactor  
 NT1 hanaro reactor  
 NT1 harmonie reactor  
 NT1 herald reactor  
 NT1 hero reactor  
 NT1 hew-305 reactor  
 NT1 hfir reactor  
 NT1 hifar reactor  
 NT1 hre-2 reactor  
 NT1 httr reactor  
 NT1 htr-10 reactor  
 NT1 irl reactor  
 NT1 irr-1 reactor  
 NT1 irt-2000 djakarta reactor  
 NT1 irt-2000 moscow reactor  
 NT1 irt-baghdad reactor  
 NT1 ispra-1 reactor

**NT1** jmtr reactor  
**NT1** kalpakkam lmfr reactor  
**NT1** loft reactor  
**NT1** mzfr reactor  
**NT1** netr reactor  
**NT1** nru reactor  
**NT1** ntr reactor  
**NT1** orphee reactor  
**NT1** ovr reactor  
**NT1** pat reactor  
**NT1** pegase reactor  
**NT1** proteus reactor  
**NT1** ra-3 reactor  
**NT1** ra-4 reactor  
**NT1** ra-5 reactor  
**NT1** ra-6 reactor  
**NT1** ra-8 reactor  
**NT1** rapsodie reactor  
**NT1** rts-1 reactor  
**NT1** slc prototype reactor  
**NT1** safari-1 reactor  
**NT1** sbr-5 reactor  
**NT1** snaptran reactors  
**NT1** stf reactor  
**NT1** tapiro reactor  
**NT1** tory-2a reactor  
**NT1** tory-2c reactor  
**NT1** treat reactor  
**NT1** triga-1-michigan reactor  
**NT1** triga-2-pavia reactor  
**NT1** tsr-1 reactor  
**NT1** tsr-2 reactor  
**NT1** urr reactor  
**NT1** uvar reactor  
**NT1** viper reactor  
**NT1** wr-1 reactor  
**NT1** wtr reactor

**test wells**

*INIS: 2000-04-12; ETDE: 1979-01-30*  
 USE exploratory wells

**TESTES**

**BT1** gonads  
**\*BT1** male genitals  
*RT* androgens  
*RT* spermatogenesis

**TESTING**

1995-04-09

*Subjection to specific planned procedures calculated to reveal any deficiencies.*

**NT1** clinical trials  
**NT1** drill stem testing  
**NT1** field tests  
**NT1** flight testing  
**NT1** frequency response testing  
**NT1** leak testing  
**NT1** materials testing  
**NT2** destructive testing  
**NT3** charpy test  
**NT2** mechanical tests  
**NT3** impact tests  
**NT4** charpy test  
**NT2** nondestructive testing  
**NT3** acoustic testing  
**NT4** acoustic emission testing  
**NT4** ultrasonic testing  
**NT3** electrical testing  
**NT3** electromagnetic testing  
**NT4** eddy current testing  
**NT3** industrial radiography  
**NT4** beta radiography  
**NT4** gamma radiography  
**NT5** gamma fuel scanning  
**NT4** neutron radiography  
**NT4** proton radiography  
**NT4** x-ray radiography  
**NT3** liquid penetrant inspection  
**NT3** magnetic testing

**NT3** radiation attenuation testing

**NT3** thermal testing

**NT4** frost tests

**NT1** performance testing  
**NT1** road tests  
**NT1** validation  
*RT* bench-scale experiments  
*RT* carcinogen screening  
*RT* certification  
*RT* evaluation  
*RT* feasibility studies  
*RT* inspection  
*RT* mutagen screening  
*RT* sampling  
*RT* teratogen screening  
*RT* test facilities

**testing (biological)**

USE bioassay

**testing (materials)**

2000-04-12

USE materials testing

**TESTOSTERONE**

**\*BT1** androgens  
**\*BT1** hydroxy compounds  
**\*BT1** ketones

**TETA**

*UF* triethylenetetramine  
**\*BT1** amines

**TETAHA**

*Triethylenetetraaminehexaacetic acid.*

*UF* triethylenetetraaminehexaacetic acid  
**\*BT1** amino acids  
**BT1** chelating agents

**TETANUS**

**\*BT1** bacterial diseases

**TETRACENE**

**\*BT1** condensed aromatics  
**\*BT1** hydrocarbons

**tetrachlorobenzoquinone**

USE chloranil

**tetrachloromethane**

1985-07-22

(Prior to August 1985 this was a valid descriptor.)

USE carbon tetrachloride

**TETRACYCLINES**

1996-10-22

(Prior to March 1997

CHLORTETRACYCLINE was a valid ETDE descriptor.)

*UF* chlortetracycline

**\*BT1** antibiotics

**NT1** oxytetracycline

**TETRADECANOIC ACID**

*UF* myristic acid

**\*BT1** monocarboxylic acids

**TETRAETHYL LEAD**

ETDE: 2005-02-01

(Prior to January 2005 TEL was used for this concept.)

*UF* tel (tetraethyl lead)

**BT1** lead compounds

**\*BT1** organometallic compounds

*RT* fuel additives

**tetraethylammonium bromide**

1996-10-23

(Prior to March 1997 TEAB was used for this concept in ETDE.)

USE bromides

USE quaternary compounds

**tetrafluoromethane**

*INIS: 1985-07-22; ETDE: 1976-08-24*  
 (Prior to August 1985 this was a valid descriptor.)

USE carbon tetrafluoride

**TETRAGONAL LATTICES**

**\*BT1** crystal lattices

**TETRAHYDROFURAN**

*INIS: 2000-04-04; ETDE: 1979-11-23*

*UF* thf

**\*BT1** furans

**NT1** mthf

**tetrahydronaphthalene**

USE tetralin

**TETRAHYDROPYRAN**

**\*BT1** pyrans

*RT* ethers

**tetrahydropyrroles**

USE pyrrolidines

**tetrahydroxybutane**

USE erythritol

**TETRAHYMENA**

**\*BT1** ciliata

**TETRALIN**

*UF* tetrahydronaphthalene

**\*BT1** aromatics

**\*BT1** hydroaromatics

**\*BT1** hydrocarbons

*RT* naphthalene

**tetramethyl-4-piperidone-n-oxyl**

2000-04-12

USE triacetoneamine-n-oxyl

**tetramethylenediamine**

USE putrescine

**tetramethylethylene glycol**

USE pinacol

**tetramethyltetraselenafulvalene**

*INIS: 1983-10-14; ETDE: 1983-04-07*

USE tmtsf

**TETRANEUTRONS**

*Bound state of four neutrons.*

**\*BT1** polyneutrons

**tetraphenylethylene glycol**

2000-04-12

(Prior to February 1996 BENZOPINACOL was used for this concept in ETDE.)

USE glycols

**tetraploidy**

USE polyploidy

**TETRATHIAFULVALENE**

*INIS: 2000-03-29; ETDE: 2005-02-01*

(Prior to January 2005 TTF was used for this concept.)

*UF* ttf (tetrathiafulvalene)

**\*BT1** heterocyclic compounds

**\*BT1** organic sulfur compounds

**tetrathiafulvalene****tetracyanoquinodimethane**

*INIS: 2000-05-02; ETDE: 1975-10-01*

USE ttf-tnq

**TETRAZOLES**

*Compounds that contain a five-membered heterocyclic ring containing four nitrogen atoms.*

**\*BT1** azoles

NT1 tetrazolium

## TETRAZOLIUM

\*BT1 chlorides  
\*BT1 tetrazoles

## TETRYL

2000-04-12  
\*BT1 amines  
\*BT1 chemical explosives  
\*BT1 nitro compounds

## TEV RANGE

From 10 exp 12 to 10 exp 15 eV.  
BT1 energy range  
NT1 tev range 01-10  
NT1 tev range 10-100  
NT1 tev range 100-1000

## TEV RANGE 01-10

INIS: 1977-10-17; ETDE: 1977-11-10  
\*BT1 tev range

## TEV RANGE 10-100

INIS: 1977-10-17; ETDE: 1977-11-10  
\*BT1 tev range

## TEV RANGE 100-1000

INIS: 1977-10-17; ETDE: 1977-11-10  
\*BT1 tev range

## tevatron

INIS: 2000-04-12; ETDE: 1983-09-15  
(Prior to July 1985 this was a valid ETDE descriptor.)  
USE fermilab tevatron

## tevatron (fermilab)

INIS: 1984-02-22; ETDE: 2002-06-13  
USE fermilab tevatron

## tewa event

INIS: 1994-10-14; ETDE: 1984-05-23  
A test made during PROJECT REDWING.  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE atmospheric explosions  
USE nuclear explosions

## TEXACO GASIFICATION PROCESS

INIS: 1992-07-21; ETDE: 1977-05-07  
Coal, or any carbonaceous fuel, and oxygen are reacted in carbon monoxide and hydrogen at temperatures of 1200-2200 degrees F and pressures of 300-4500 psi. Steam may be used optionally. Hydrogen and carbon monoxide are recycled to the reactor to optimize methane yield. The high-btu off gas is suitable for upgrading to pipeline quality.  
\*BT1 coal gasification

## TEXAS

1997-06-19  
\*BT1 usa  
RT brazos river  
RT dalhart basin  
RT galveston bay  
RT matagorda bay  
RT palo duro basin  
RT pantex plant  
RT permian basin  
RT rio grande river  
RT san antonio bay  
RT us gulf coast  
RT uvalde deposit

## TEXAS A AND M CYCLOTRON

UF texas a and m variable energy cyclotron  
\*BT1 isochronous cyclotrons

## texas a and m k500 cyclotron

INIS: 1990-12-15; ETDE: 2002-06-13  
(Prior to December 1990, this was a valid descriptor.)  
USE texas superconducting cyclotron

## texas a and m variable energy cyclotron

INIS: 1993-11-10; ETDE: 2002-06-13  
USE texas a and m cyclotron

## texas college station training reactor

1993-11-10  
USE nscr reactor

## texas experimental tokamak

INIS: 1978-07-17; ETDE: 1978-03-08  
USE text devices

## TEXAS SUPERCONDUCTING CYCLOTRON

INIS: 1990-12-15; ETDE: 1983-03-24  
(Prior to December 1990, this concept was indexed by TEXASA AND M K500 CYCLOTRON.)  
UF texas a and m k500 cyclotron  
\*BT1 heavy ion accelerators  
\*BT1 isochronous cyclotrons  
\*BT1 superconducting cyclotrons

## texas university triga reactor

INIS: 1984-06-21; ETDE: 2002-06-13  
USE triga-texas reactor

## TEXT DEVICES

INIS: 1978-07-17; ETDE: 1978-03-08  
Text is intended for diagnostic development and basic physics experiments including rf heating.  
UF texas experimental tokamak  
\*BT1 tokamak devices

## text editors

INIS: 2000-04-12; ETDE: 1978-06-14  
Means, often computer codes, to create or modify any sort of text, report, or computer code. Use the descriptor below and/or MODIFICATIONS, as appropriate.  
(Prior to May 1996 this was a valid ETDE descriptor.)  
SEE computer codes

## TEXTILE INDUSTRY

INIS: 1998-10-13; ETDE: 1977-06-24  
BT1 industry  
RT textiles

## TEXTILES

RT clothing  
RT cotton  
RT dacron  
RT fibers  
RT jute  
RT rayon  
RT textile industry  
RT wool

## TEXTOLITE

\*BT1 organic polymers

## TEXTOR TOKAMAK

INIS: 1977-09-15; ETDE: 1977-11-10  
Torus EXperiment for Technology Oriented Research.  
UF torus experiment for technology oriented research  
\*BT1 tokamak devices

## TEXTURE

RT crystal structure  
RT grain orientation  
RT schulz method

## TFCX REACTORS

INIS: 1994-04-11; ETDE: 1984-10-24  
UF tokamak fusion core experiment  
\*BT1 tokamak type reactors

## TFR TOKAMAK

UF tokamak fontenay-aux-roses  
\*BT1 tokamak devices

## tfr device

INIS: 1985-07-22; ETDE: 1979-05-03  
(Prior to August 1985 this was a valid descriptor.)  
USE tfr tokamak

## tfr reactors

INIS: 2000-04-12; ETDE: 1978-04-06  
(Prior to July 1985 this was a valid ETDE descriptor.)  
USE tfr tokamak

## TFTR TOKAMAK

1985-07-22  
(Prior to August 1985 TFTR DEVICE was used.)  
UF tfr device  
UF tfr reactors  
UF tokamak fusion test reactor  
\*BT1 tokamak devices

## THAI ORGANIZATIONS

2004-03-31  
BT1 national organizations

## thai research reactor-1

USE trr-1 reactor

## THAILAND

BT1 asia  
BT1 developing countries

## THALAMUS

\*BT1 brain  
RT ganglions

## THALASSEMIA

\*BT1 anemias

## THALLIUM

\*BT1 metals

## THALLIUM 176

2007-04-23  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 proton decay radioisotopes  
\*BT1 thallium isotopes

## THALLIUM 177

2007-04-23  
\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 proton decay radioisotopes  
\*BT1 thallium isotopes

## THALLIUM 178

2007-04-23  
\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 thallium isotopes

## THALLIUM 179

INIS: 1983-09-01; ETDE: 1983-08-25  
\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 milliseconds living radioisotopes

- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 180**

2007-04-23

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thallium isotopes

**THALLIUM 181**

2007-04-23

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thallium isotopes

**THALLIUM 182**

INIS: 1986-07-09; ETDE: 1981-09-08

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thallium isotopes

**THALLIUM 183**

INIS: 1992-09-23; ETDE: 1981-09-22

- \*BT1 alpha decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 184**

1977-01-25

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thallium isotopes

**THALLIUM 185**

INIS: 1977-01-25; ETDE: 1977-04-13

- \*BT1 alpha decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thallium isotopes

**THALLIUM 186**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thallium isotopes

**THALLIUM 187**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thallium isotopes

**THALLIUM 188**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

- \*BT1 thallium isotopes

**THALLIUM 189**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 190**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 191**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 192**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 193**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 194**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 195**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thallium isotopes

**THALLIUM 196**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 197**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thallium isotopes

**THALLIUM 198**

- \*BT1 beta-plus decay radioisotopes

- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 199**

- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 200**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 201**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 202**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 203**

- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- \*BT1 thallium isotopes

**THALLIUM 203 TARGET**

ETDE: 1976-07-09

- BT1 targets

**THALLIUM 204**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes
- \*BT1 years living radioisotopes

**THALLIUM 205**

- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- \*BT1 thallium isotopes

**THALLIUM 205 REACTIONS**

INIS: 1978-04-21; ETDE: 1978-07-06

- \*BT1 heavy ion reactions

**THALLIUM 205 TARGET**

ETDE: 1976-07-09

- BT1 targets

**THALLIUM 206**

- UF radium e//*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 207**

- UF actinium c//*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei



- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thallium isotopes

**THALLIUM 207 TARGET***1980-05-14*

- BT1 targets

**THALLIUM 208***UF thorium c//*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 209**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 209 TARGET***INIS: 1984-06-21; ETDE: 1984-07-10*

- BT1 targets

**THALLIUM 210***UF radium c//*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 211***2007-04-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 212***2007-04-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM ADDITIONS***Alloys containing not more than 1% Tl are listed here.*

- \*BT1 thallium alloys

**THALLIUM ALLOYS***Alloys containing more than 1% Tl.*

- BT1 alloys
- NT1 thallium additions
- NT1 thallium base alloys

**THALLIUM BASE ALLOYS**

- \*BT1 thallium alloys

**THALLIUM BROMIDES**

- \*BT1 bromides
- \*BT1 thallium halides

**THALLIUM CARBIDES***INIS: 1977-09-06; ETDE: 1975-12-16*

- \*BT1 carbides
- BT1 thallium compounds

**THALLIUM CARBONATES***INIS: 1977-01-25; ETDE: 1977-10-20*

- \*BT1 carbonates
- BT1 thallium compounds

**THALLIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 thallium halides

**THALLIUM COMPLEXES**

- BT1 complexes

**THALLIUM COMPOUNDS***1997-06-19*

- NT1 thallium carbides
- NT1 thallium carbonates
- NT1 thallium halides
- NT2 thallium bromides
- NT2 thallium chlorides
- NT2 thallium fluorides
- NT2 thallium iodides
- NT1 thallium hydrides
- NT1 thallium hydroxides
- NT1 thallium nitrates
- NT1 thallium oxides
- NT1 thallium perchlorates
- NT1 thallium phosphates
- NT1 thallium selenides
- NT1 thallium sulfates
- NT1 thallium sulfides
- NT1 thallium tellurides
- NT1 thallium tungstates
- NT1 thallium uranates

**THALLIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 thallium halides

**THALLIUM HALIDES***INIS: 1985-01-17; ETDE: 1976-05-13*

- \*BT1 halides
- BT1 thallium compounds
- NT1 thallium bromides
- NT1 thallium chlorides
- NT1 thallium fluorides
- NT1 thallium iodides

**THALLIUM HYDRIDES***INIS: 1981-06-19; ETDE: 1980-08-12*

- \*BT1 hydrides
- BT1 thallium compounds

**THALLIUM HYDROXIDES***1996-07-08**(From June 1996 to November 2007**THALLIUM COMPOUNDS + HYDROXIDES was used for this concept.)*

- \*BT1 hydroxides
- BT1 thallium compounds

**THALLIUM IODIDES**

- \*BT1 iodides
- \*BT1 thallium halides

**THALLIUM IONS**

- \*BT1 ions

**THALLIUM ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 thallium 176
- NT1 thallium 177
- NT1 thallium 178
- NT1 thallium 179
- NT1 thallium 180
- NT1 thallium 181
- NT1 thallium 182
- NT1 thallium 183
- NT1 thallium 184
- NT1 thallium 185
- NT1 thallium 186
- NT1 thallium 187
- NT1 thallium 188
- NT1 thallium 189
- NT1 thallium 190
- NT1 thallium 191
- NT1 thallium 192
- NT1 thallium 193
- NT1 thallium 194
- NT1 thallium 195

- NT1 thallium 196
- NT1 thallium 197
- NT1 thallium 198
- NT1 thallium 199
- NT1 thallium 200
- NT1 thallium 201
- NT1 thallium 202
- NT1 thallium 203
- NT1 thallium 204
- NT1 thallium 205
- NT1 thallium 206
- NT1 thallium 207
- NT1 thallium 208
- NT1 thallium 209
- NT1 thallium 210
- NT1 thallium 211
- NT1 thallium 212

**THALLIUM NITRATES**

- \*BT1 nitrates
- BT1 thallium compounds

**THALLIUM OXIDES**

- \*BT1 oxides
- BT1 thallium compounds

**THALLIUM PERCHLORATES***1996-07-23**(From July 1996 to November 2007**THALLIUM COMPOUNDS + PERCHLORATES was used for this concept.)*

- \*BT1 perchlorates
- BT1 thallium compounds

**THALLIUM PHOSPHATES***INIS: 1979-01-18; ETDE: 1979-02-23*

- \*BT1 phosphates
- BT1 thallium compounds

**THALLIUM SELENIDES***INIS: 1980-09-12; ETDE: 1975-08-19*

- \*BT1 selenides
- BT1 thallium compounds

**THALLIUM SULFATES**

- \*BT1 sulfates
- BT1 thallium compounds

**THALLIUM SULFIDES**

- \*BT1 sulfides
- BT1 thallium compounds

**THALLIUM TELLURIDES***INIS: 1979-09-18; ETDE: 1975-11-28*

- \*BT1 tellurides
- BT1 thallium compounds

**THALLIUM TUNGSTATES***INIS: 2000-04-12; ETDE: 1976-11-17*

- BT1 thallium compounds
- \*BT1 tungstates

**THALLIUM URANATES***1996-07-23**(From July 1996 to February 2008**THALLIUM COMPOUNDS + URANATES was used for this concept.)*

- BT1 thallium compounds
- \*BT1 uranates

**THAMES RIVER***INIS: 1976-02-11; ETDE: 1976-04-19*

- \*BT1 rivers

**THAWING***INIS: 2000-04-12; ETDE: 1976-03-11**Process of bringing a frozen material to an unfrozen state.*

- BT1 phase transformations
- RT cryobiology
- RT defrosting
- RT freezing
- RT melting

**THE FORMER YUGOSLAV  
REPUBLIC OF MACEDONIA**

INIS: 1997-06-05; ETDE: 1998-04-10

UF former yugoslav republic of  
macedoniaUF macedonia (the former yugoslav  
republic of)

UF yugoslavia (macedonia)

SF yugoslavia

BT1 developing countries

\*BT1 eastern europe

**the geysers**

1992-06-04

USE geysers geothermal field

**the next step device**

INIS: 2000-04-12; ETDE: 1978-03-03

USE tns reactors

**the next step thermonuclear reactor**

INIS: 1993-11-10; ETDE: 2002-06-13

USE tns reactors

**THEBAINE**

1996-07-08

\*BT1 morphine

**THEFT**

INIS: 1993-02-18; ETDE: 1976-02-19

UF embezzlement

BT1 crime

RT physical protection devices

RT sabotage

RT security

RT vulnerability

**thematic mapping**

INIS: 2000-04-12; ETDE: 1991-02-22

USE multispectral photography

**thenoyltrifluoroacetone**

USE tta

**theobroma**

1977-04-07

USE cacao trees

**THEOBROMINE**

UF 3,7-dimethylxanthine

\*BT1 diuretics

\*BT1 vasodilators

\*BT1 xanthines

**THEOPHYLLINE**

UF 1,3-dimethylxanthine

\*BT1 diuretics

\*BT1 vasodilators

\*BT1 xanthines

**THEORETICAL DATA**

INIS: 1996-03-12; ETDE: 1979-02-27

Use only in conjunction with literary indicator

N for data flagging.

\*BT1 numerical data

**therapeutic agents**

INIS: 1984-05-24; ETDE: 1981-04-20

USE drugs

**THERAPEUTIC USES**

INIS: 1994-01-07; ETDE: 1985-09-24

BT1 uses

RT therapy

**THERAPY**

UF treatment (therapy)

BT1 medicine

NT1 chemotherapy

NT1 combined therapy

NT1 first aid

NT1 gene therapy

NT1 immunotherapy

NT2 radioimmunotherapy

NT1 post-irradiation therapy

NT1 radiotherapy

NT2 afterloading

NT2 brachytherapy

NT2 ct-guided radiotherapy

NT2 neutron therapy

NT3 neutron capture therapy

NT2 radioimmunotherapy

NT1 transfusions

RT balneology

RT biological recovery

RT bleomycin

RT castration

RT diet

RT drugs

RT injection

RT patients

RT radioimmunology

RT side effects

RT surgery

RT therapeutic uses

**thermal alteration**

INIS: 2000-07-24; ETDE: 1977-08-09

USE maturation

**THERMAL ANALYSIS**

UF analysis (thermal)

NT1 differential thermal analysis

NT1 dilatometry

NT1 emanation thermal analysis

NT1 thermal gravimetric analysis

RT phase diagrams

RT phase transformations

RT structural chemical analysis

RT thermal expansion

RT thermal hydraulics

**THERMAL BARRIERS**

INIS: 1983-03-16; ETDE: 1982-10-05

Localized depressions of field, particle density  
and potential which reduce thermal-energy  
transfer between plug and central-cell  
electrons in mirror devices.

RT plasma confinement

RT tnr reactors

RT tmx devices

**THERMAL BATTERIES**

2000-04-12

\*BT1 electric batteries

RT electrolytic cells

RT thermoelectric conversion

**THERMAL BOUNDARY  
RESISTANCE**Thermal impedance at an interface at ultralow  
temperatures.

NT1 kapitza resistance

RT heat transfer

**THERMAL BRIDGES**

2005-07-05

Pathways, usually undesirable, through which  
heat is transferred much more readily than  
through adjacent materials.

RT building materials

RT heat gain

RT heat losses

RT thermal conduction

RT thermal insulation

**THERMAL COLUMNS**

UF columns (thermal)

UF reactor thermal columns

RT moderators

RT neutron sources

RT thermal neutrons

**THERMAL COMFORT**

INIS: 2000-04-12; ETDE: 1980-12-08

That condition which expresses satisfaction  
with the thermal environment and which is  
measured by such factors as air temperature,  
relative humidity, air velocity, etc.

SF mean radiant temperature

RT architecture

RT environment

RT humidity control

RT microclimates

RT temperature control

**THERMAL CONDUCTION**

Heat transfer by conduction.

UF conduction (thermal)

\*BT1 heat transfer

RT thermal bridges

RT thermal conductivity

RT thermal insulation

**THERMAL CONDUCTIVITY**

UF conductivity (thermal)

\*BT1 thermodynamic properties

RT heat transfer

RT liquid flow

RT matthiessen rule

RT nusselt number

RT righi-leduc effect

RT thermal conduction

RT thermal diffusivity

RT thermoelasticity

RT umklapp processes

RT wiedemann-franz law

**THERMAL CRACKING**

INIS: 1998-01-28; ETDE: 1976-12-15

\*BT1 cracking

RT catalytic cracking

RT hydrocracking

**THERMAL CYCLING**

RT mechanical tests

RT thermal shock

**thermal decay time log**

INIS: 2000-04-12; ETDE: 1979-03-27

USE neutron-gamma logging

**thermal decomposition**

USE pyrolysis

**THERMAL DEGRADATION**

1975-10-09

Impairment of properties caused by exposure  
to heat.

UF degradation (thermal)

UF heat stability

RT chemical properties

RT heating

RT mechanical properties

RT physical properties

RT pyrolysis

**THERMAL DIFFUSION**Phenomenon in which a temperature gradient  
in a mixture of fluids gives rise to a flow of  
one constituent relative to the mixture as a  
whole.

UF thermodiffusion

BT1 diffusion

RT heat transfer

RT isotope separation

RT separation processes

RT thermal diffusivity

**THERMAL DIFFUSIVITY**

The quantity of heat passing normally through a unit area per unit time divided by the product of specific heat, density, and temperature gradient.

- SF heat dissipation  
 \*BT1 thermodynamic properties  
 RT prandtl number  
 RT thermal conductivity  
 RT thermal diffusion  
 RT thermal insulation

**thermal effects**

INIS: 2000-04-12; ETDE: 1975-10-28  
 USE temperature dependence

**THERMAL EFFICIENCY**

- BT1 efficiency  
 RT heat rate  
 RT thermodynamics

**THERMAL EFFLUENTS**

- UF effluents (thermal)  
 UF heated effluents  
 SF emissions (industrial)  
 SF heat dissipation  
 RT cold effluents  
 RT emissions tax  
 RT heat sinks  
 RT thermal pollution  
 RT waste heat

**THERMAL ENERGY STORAGE EQUIPMENT**

INIS: 1992-08-20; ETDE: 1975-11-28  
 UF heat storage devices  
 UF heat storage systems  
 \*BT1 energy storage systems  
 BT1 equipment  
 RT heat storage  
 RT latent heat storage  
 RT peaking power plants  
 RT sensible heat storage  
 RT solar-assisted power systems  
 RT solar equipment  
 RT thermochemical heat storage

**thermal envelope houses**

INIS: 1992-08-25; ETDE: 1981-06-13  
 USE double envelope buildings

**THERMAL EQUILIBRIUM**

- BT1 equilibrium  
 RT thermodynamic properties

**THERMAL EXPANSION**

- BT1 expansion  
 RT contraction  
 RT dilatometry  
 RT elongation  
 RT expansion joints  
 RT grueneisen constant  
 RT swelling  
 RT thermal analysis  
 RT thermodynamic properties  
 RT thermoelasticity

**THERMAL FATIGUE**

- \*BT1 fatigue

**THERMAL FISSION**

- \*BT1 fission  
 \*BT1 neutron reactions  
 RT thermal neutrons  
 RT watt fission spectrum

**THERMAL FISSION FACTOR**

- BT1 dimensionless numbers  
 RT fission  
 RT multiplication factors

**THERMAL FRACTURES**

INIS: 1995-09-08; ETDE: 1980-07-09  
 \*BT1 fractures  
 RT cracks  
 RT thermal fracturing  
 RT thermal stresses

**THERMAL FRACTURING**

INIS: 2000-04-12; ETDE: 1980-07-09  
 The formation or disintegration of a fracture or crack as a result of sudden temperature changes.  
 BT1 fracturing  
 RT thermal fractures  
 RT thermal stresses

**thermal gradients**

1982-12-01  
 Coordinate the descriptor below with the descriptor for the temperature range involved. (Prior to June 1986, the temperature range was coordinated with TEMPERATURE DISTRIBUTION.)  
 USE temperature gradients

**THERMAL GRAVIMETRIC ANALYSIS**

- UF thermogravimetric analysis  
 UF thermogravimetry  
 \*BT1 gravimetric analysis  
 BT1 thermal analysis  
 RT decomposition

**THERMAL HYDRAULICS**

2003-10-21  
 UF thermohydraulics  
 \*BT1 hydraulics  
 RT flow models  
 RT fluid flow  
 RT temperature dependence  
 RT temperature distribution  
 RT thermal analysis  
 RT thermodynamics

**thermal insulating glass**

INIS: 2000-04-12; ETDE: 1983-03-23  
 USE double glazing

**THERMAL INSULATION**

1997-06-17  
 UF insulation (thermal)  
 UF vacuum insulation panels  
 RT air conditioning  
 RT bead walls  
 RT curtains  
 RT earth berms  
 RT energy conservation  
 RT fire resistance  
 RT heat mirrors  
 RT heat transfer  
 RT mineral wool  
 RT r factors  
 RT shielding  
 RT shutters  
 RT storm doors  
 RT storm windows  
 RT temperature control  
 RT thermal bridges  
 RT thermal conduction  
 RT thermal diffusivity  
 RT thermal shields  
 RT urea-formaldehyde foams  
 RT weatherization  
 RT weatherstripping

**thermal inversion**

INIS: 2000-04-12; ETDE: 1980-09-04  
 USE temperature inversions

**THERMAL MASS**

INIS: 2000-04-12; ETDE: 1978-07-05  
 UF mass (thermal)  
 BT1 mass  
 RT sensible heat storage

**thermal-nelson model**

1996-07-23  
 (Until July 1996 this was a valid descriptor.)  
 USE mathematical models  
 USE thermal spikes

**THERMAL NEUTRONS**

1996-07-08  
 Neutrons in thermal equilibrium with the medium in which they exist.  
 SF zemach-glauber formalism  
 \*BT1 neutrons  
 RT neutron temperature  
 RT thermal columns  
 RT thermal fission  
 RT watt fission spectrum

**thermal photography**

INIS: 1978-07-03; ETDE: 1977-09-19  
 USE infrared thermography

**THERMAL POLLUTION**

Environmental temperature rise due to waste heat disposal.  
 UF pollution (thermal)  
 UF thermal pollution (air)  
 UF thermal pollution (water)  
 BT1 pollution  
 RT environmental effects  
 RT plumes  
 RT thermal effluents  
 RT waste heat

**thermal pollution (air)**

USE air pollution  
 USE thermal pollution

**thermal pollution (water)**

USE thermal pollution  
 USE water pollution

**THERMAL POWER PLANTS**

BT1 power plants  
 NT1 combined-cycle power plants  
 NT2 mhd generator etf  
 NT1 fossil-fuel power plants  
 NT2 kingston steam plant  
 NT2 paradise steam plant  
 NT2 shawnee steam plant  
 NT2 widows creek steam plant  
 NT1 geothermal power plants  
 NT1 nuclear power plants  
 NT2 bopssar standard plant  
 NT2 ebasco standard plant  
 NT2 gibbsar standard plant  
 NT2 offshore nuclear power plants  
 NT2 swessar standard plant  
 NT2 underground nuclear stations  
 NT1 ocean thermal power plants  
 NT1 refuse-fueled power plants  
 NT1 solar thermal power plants  
 NT2 distributed collector power plants  
 NT2 tower focus power plants  
 NT3 barstow solar pilot plant  
 NT1 thermonuclear power plants  
 NT1 wood-fuel power plants  
 RT district heating  
 RT heat rate  
 RT peaking power plants

**thermal properties**

USE thermodynamic properties

**THERMAL RADIATION**

\*BT1 electromagnetic radiation

RT blackbody radiation  
 RT heat transfer  
 RT infrared radiation  
 RT radiant heat transfer  
 RT rosseland approximation  
 RT thermodynamic properties

**THERMAL REACTORS**

1996-02-09

BT1 reactors  
 NT1 aeg-pr-10 reactor  
 NT1 aérojet-general nucleonics reactors  
 NT1 afri reactor  
 NT1 agesta reactor  
 NT1 ai-l-77 reactor  
 NT1 akr-1 reactor  
 NT1 alrr reactor  
 NT1 anex reactor  
 NT1 anna reactor  
 NT1 aps reactor  
 NT1 apsara reactor  
 NT1 aquilon reactor  
 NT1 arbi reactor  
 NT1 arbus reactor  
 NT1 argonaut reactor  
 NT1 argos reactor  
 NT1 argus reactor  
 NT1 armf-1 reactor  
 NT1 astra reactor  
 NT1 athene reactor  
 NT1 atpr reactor  
 NT1 atr reactor  
 NT1 atrc reactor  
 NT1 atsr reactor  
 NT1 atucha-2 reactor  
 NT1 atucha reactor  
 NT1 avogadro rs-1 reactor  
 NT1 avr reactor  
 NT1 bawtr reactor  
 NT1 beloyarsk-1 reactor  
 NT1 beloyarsk-2 reactor  
 NT1 bepo reactor  
 NT1 ber-2 reactor  
 NT1 berkeley reactor  
 NT1 bgrr reactor  
 NT1 bilibin reactor  
 NT1 bohunice a-1 reactor  
 NT1 bohunice a-2 reactor  
 NT1 borax-1 reactor  
 NT1 borax-2 reactor  
 NT1 borax-3 reactor  
 NT1 borax-4 reactor  
 NT1 borax-5 reactor  
 NT1 br-02 reactor  
 NT1 br-1 reactor  
 NT1 br-2 reactor  
 NT1 bradwell reactor  
 NT1 brr reactor  
 NT1 bsr-1 reactor  
 NT1 bsr-2 reactor  
 NT1 budapest training reactor  
 NT1 bugey-1 reactor  
 NT1 bwr type reactors  
 NT2 allens creek-1 reactor  
 NT2 allens creek-2 reactor  
 NT2 bailly-1 reactor  
 NT2 barsebaeck-1 reactor  
 NT2 barsebaeck-2 reactor  
 NT2 barton-1 reactor  
 NT2 barton-2 reactor  
 NT2 barton-3 reactor  
 NT2 barton-4 reactor  
 NT2 bell reactor  
 NT2 big rock point reactor  
 NT2 black fox-1 reactor  
 NT2 black fox-2 reactor  
 NT2 bolsa chica-1 reactor  
 NT2 bolsa chica-2 reactor  
 NT2 bonus reactor  
 NT2 browns ferry-1 reactor  
 NT2 browns ferry-2 reactor  
 NT2 browns ferry-3 reactor  
 NT2 brunsbuettel reactor  
 NT2 brunswick-1 reactor  
 NT2 brunswick-2 reactor  
 NT2 chinshan-1 reactor  
 NT2 chinshan-2 reactor  
 NT2 clinton-1 reactor  
 NT2 clinton-2 reactor  
 NT2 cofrentes reactor  
 NT2 cooper reactor  
 NT2 dodewaard reactor  
 NT2 douglas point-1 reactor  
 NT2 douglas point-2 reactor  
 NT2 dresden-1 reactor  
 NT2 dresden-2 reactor  
 NT2 dresden-3 reactor  
 NT2 duane arnold-1 reactor  
 NT2 ebwr reactor  
 NT2 enel-4 reactor  
 NT2 enrico fermi-2 reactor  
 NT2 err reactor  
 NT2 fitzpatrick reactor  
 NT2 forsmark-1 reactor  
 NT2 forsmark-2 reactor  
 NT2 forsmark-3 reactor  
 NT2 fukushima-1 reactor  
 NT2 fukushima-2 reactor  
 NT2 fukushima-3 reactor  
 NT2 fukushima-4 reactor  
 NT2 fukushima-5 reactor  
 NT2 fukushima-6 reactor  
 NT2 fukushima-ii-1 reactor  
 NT2 fukushima-ii-2 reactor  
 NT2 fukushima-ii-3 reactor  
 NT2 fukushima-ii-4 reactor  
 NT2 garigliano reactor  
 NT2 garona reactor  
 NT2 ge standard reactor  
 NT2 graben-1 reactor  
 NT2 graben-2 reactor  
 NT2 grand gulf-1 reactor  
 NT2 grand gulf-2 reactor  
 NT2 gundremmingen-2 reactor  
 NT2 gundremmingen-3 reactor  
 NT2 hamaoka-1 reactor  
 NT2 hamaoka-2 reactor  
 NT2 hamaoka-3 reactor  
 NT2 hamaoka-4 reactor  
 NT2 hamaoka-5 reactor  
 NT2 hartsville-1 reactor  
 NT2 hartsville-2 reactor  
 NT2 hartsville-3 reactor  
 NT2 hartsville-4 reactor  
 NT2 hatch-1 reactor  
 NT2 hatch-2 reactor  
 NT2 hdr reactor  
 NT2 hope creek-1 reactor  
 NT3 newbold island-1 reactor  
 NT2 hope creek-2 reactor  
 NT3 newbold island-2 reactor  
 NT2 humboldt bay reactor  
 NT2 isar reactor  
 NT2 jpdr-2 reactor  
 NT2 jpdr reactor  
 NT2 kaiseraugst reactor  
 NT2 kashiwazaki-kariwa-1 reactor  
 NT2 kashiwazaki-kariwa-2 reactor  
 NT2 kashiwazaki-kariwa-3 reactor  
 NT2 kashiwazaki-kariwa-4 reactor  
 NT2 kashiwazaki-kariwa-5 reactor  
 NT2 kashiwazaki-kariwa-6 reactor  
 NT2 kashiwazaki-kariwa-7 reactor  
 NT2 kruemmel reactor  
 NT2 kuosheng-1 reactor  
 NT2 kuosheng-2 reactor  
 NT2 la salle county-1 reactor  
 NT2 la salle county-2 reactor  
 NT2 lacbwr reactor  
 NT2 laguna verde-1 reactor  
 NT2 laguna verde-2 reactor  
 NT2 leibstadt reactor  
 NT2 limerick-1 reactor  
 NT2 limerick-2 reactor  
 NT2 lingen reactor  
 NT2 mendocino-1 reactor  
 NT2 mendocino-2 reactor  
 NT2 millstone-1 reactor  
 NT2 montague-1 reactor  
 NT2 montague-2 reactor  
 NT2 montalto di castro-1 reactor  
 NT2 montalto di castro-2 reactor  
 NT2 monticello reactor  
 NT2 muehleberg reactor  
 NT2 nine mile point-1 reactor  
 NT2 nine mile point-2 reactor  
 NT2 okg-1 reactor  
 NT2 okg-2 reactor  
 NT2 okg-3 reactor  
 NT2 olkiluoto-1 reactor  
 NT2 olkiluoto-2 reactor  
 NT2 onagawa-1 reactor  
 NT2 onagawa-2 reactor  
 NT2 onagawa-3 reactor  
 NT2 oyster creek-1 reactor  
 NT2 pathfinder reactor  
 NT2 peach bottom-2 reactor  
 NT2 peach bottom-3 reactor  
 NT2 perry-1 reactor  
 NT2 perry-2 reactor  
 NT2 philippsburg-1 reactor  
 NT2 phippes bend-1 reactor  
 NT2 phippes bend-2 reactor  
 NT2 pilgrim-1 reactor  
 NT2 quad cities-1 reactor  
 NT2 quad cities-2 reactor  
 NT2 ringhals-1 reactor  
 NT2 river bend-1 reactor  
 NT2 river bend-2 reactor  
 NT2 rwe-bayernwerk reactor  
 NT2 shika-1 reactor  
 NT2 shimane-1 reactor  
 NT2 shimane-2 reactor  
 NT2 shoreham reactor  
 NT2 skagit-1 reactor  
 NT2 skagit-2 reactor  
 NT2 sl-1 reactor  
 NT2 susquehanna-1 reactor  
 NT2 susquehanna-2 reactor  
 NT2 tarapur-1 reactor  
 NT2 tarapur-2 reactor  
 NT2 tokai-2 reactor  
 NT2 tsuruga reactor  
 NT2 tullnerfeld reactor  
 NT2 vak reactor  
 NT2 vbwr reactor  
 NT2 vermont yankee reactor  
 NT2 verplanck-1 reactor  
 NT2 verplanck-2 reactor  
 NT2 vk-50 reactor  
 NT2 wnp-2 reactor  
 NT2 wuergassen reactor  
 NT2 zimmer-1 reactor  
 NT2 zimmer-2 reactor  
 NT1 byu l-77 reactor  
 NT1 cabri reactor  
 NT1 calder hall a-1 reactor  
 NT1 calder hall a-2 reactor  
 NT1 calder hall b-3 reactor  
 NT1 calder hall b-4 reactor  
 NT1 candu type reactors  
 NT2 bruce-1 reactor  
 NT2 bruce-2 reactor  
 NT2 bruce-3 reactor  
 NT2 bruce-4 reactor  
 NT2 bruce-5 reactor  
 NT2 bruce-6 reactor

NT2	bruce-7 reactor	NT1	essor reactor	NT1	lfr reactor
NT2	bruce-8 reactor	NT1	etr reactor	NT1	lido reactor
NT2	cernavoda-1 reactor	NT1	etrc reactor	NT1	litr reactor
NT2	cordoba reactor	NT1	etrr-2 reactor	NT1	lpr reactor
NT2	darlington-1 reactor	NT1	ewg-1 reactor	NT1	lprr reactor
NT2	darlington-2 reactor	NT1	fir-1 reactor	NT1	lucens reactor
NT2	darlington-3 reactor	NT1	fmr reactor	NT1	lvr-15 reactor
NT2	darlington-4 reactor	NT1	fr-2 reactor	NT1	lwbr type reactors
NT2	douglas point ontario reactor	NT1	frg-1 reactor	NT1	maria reactor
NT2	embalse reactor	NT1	frm-ii reactor	NT1	marius reactor
NT2	gentilly-2 reactor	NT1	fulton-1 reactor	NT1	melusine-1 reactor
NT2	gentilly reactor	NT1	fulton-2 reactor	NT1	merlin reactor
NT2	kaiga-1 reactor	NT1	g-1 reactor	NT1	minerve reactor
NT2	kaiga-2 reactor	NT1	g-2 reactor	NT1	mir reactor
NT2	kakrapar-1 reactor	NT1	g-3 reactor	NT1	mitr reactor
NT2	kakrapar-2 reactor	NT1	ga siwabessy reactor	NT1	mnsr type reactors
NT2	kanupp reactor	NT1	ga standard reactor	NT2	gharr-1 reactor
NT2	npd reactor	NT1	getr reactor	NT2	mnsr-ciae reactor
NT2	pickering-1 reactor	NT1	gidra reactor	NT2	mnsr-sd reactor
NT2	pickering-2 reactor	NT1	gleep reactor	NT2	mnsr-sh reactor
NT2	pickering-3 reactor	NT1	hartlepool reactor	NT2	mnsr-sz reactor
NT2	pickering-4 reactor	NT1	hbwr reactor	NT2	nirr-1 reactor
NT2	pickering-5 reactor	NT1	hector reactor	NT2	parr-2 reactor
NT2	pickering-6 reactor	NT1	herald reactor	NT2	srr-1 reactor
NT2	pickering-7 reactor	NT1	hew-305 reactor	NT1	mrr reactor
NT2	pickering-8 reactor	NT1	heysham-a reactor	NT1	msre reactor
NT2	point lepreau-1 reactor	NT1	heysham-b reactor	NT1	mtr reactor
NT2	point lepreau-2 reactor	NT1	hfbr reactor	NT1	mzfr reactor
NT2	qinshan-3-1 reactor	NT1	hfetr reactor	NT1	nbsr reactor
NT2	qinshan-3-2 reactor	NT1	hfir reactor	NT1	ncscr-1 reactor
NT2	rajasthan-1 reactor	NT1	hfr reactor	NT1	nestor reactor
NT2	rajasthan-2 reactor	NT1	hifar reactor	NT1	netr reactor
NT2	rajasthan-3 reactor	NT1	hinkley point-a reactor	NT1	nevada university reactor
NT2	rajasthan-4 reactor	NT1	hinkley point-b reactor	NT1	nhr-5 reactor
NT2	wolsung-1 reactor	NT1	hitrex-1 reactor	NT1	niederaichbach reactor
NT2	wolsung-2 reactor	NT1	hnpf reactor	NT1	nora reactor
NT2	wolsung-3 reactor	NT1	hor reactor	NT1	nrx reactor
NT2	wolsung-4 reactor	NT1	htr reactor	NT1	ntr reactor
NT1	cesar reactor	NT1	hunterston-a reactor	NT1	nur reactor
NT1	cesnef reactor	NT1	hunterston-b reactor	NT1	oldbury-a reactor
NT1	chapelcross-1 reactor	NT1	hwctr reactor	NT1	oldbury-b reactor
NT1	chapelcross-2 reactor	NT1	hwzpr reactor	NT1	opal reactor
NT1	chapelcross-3 reactor	NT1	ian-r1 reactor	NT1	osiris reactor
NT1	chapelcross-4 reactor	NT1	iear-1 reactor	NT1	owr reactor
NT1	chernobylsk-1 reactor	NT1	ignalina-1 reactor	NT1	ptr reactor
NT1	chernobylsk-2 reactor	NT1	ignalina-2 reactor	NT1	peach bottom-1 reactor
NT1	chernobylsk-3 reactor	NT1	igr reactor	NT1	pegase reactor
NT1	chernobylsk-4 reactor	NT1	irl reactor	NT1	pelinduna reactor
NT1	chinon-1 reactor	NT1	irr-1 reactor	NT1	perryman-1 reactor
NT1	chinon-2 reactor	NT1	irt-1 libya reactor	NT1	perryman-2 reactor
NT1	chinon-3 reactor	NT1	irt-2000 djakarta reactor	NT1	phebus reactor
NT1	cirene reactor	NT1	irt-2000 moscow reactor	NT1	pik physical model reactor
NT1	cirus reactor	NT1	irt-baghdad reactor	NT1	pik reactor
NT1	consort-2 reactor	NT1	irt-c reactor	NT1	pluto reactor
NT1	cp-2 reactor	NT1	irt-f reactor	NT1	pnpf reactor
NT1	cp-3 reactor	NT1	irt reactor	NT1	prr reactor
NT1	cp-3m reactor	NT1	irt-sofia reactor	NT1	pse reactor
NT1	cp-5 reactor	NT1	isis reactor	NT1	pstr reactor
NT1	cvtr reactor	NT1	ivv-2m reactor	NT1	pur-1 reactor
NT1	democritus reactor	NT1	janus reactor	NT1	purnima-3 reactor
NT1	dhruva reactor	NT1	jatr reactor	NT1	pwr type reactors
NT1	dido reactor	NT1	jen-1 reactor	NT2	aguirre reactor
NT1	dimple reactor	NT1	jen reactor	NT2	almaraz-1 reactor
NT1	dmtr reactor	NT1	jules horowitz reactor	NT2	almaraz-2 reactor
NT1	dow triga-mk-1 reactor	NT1	juno reactor	NT2	angra-1 reactor
NT1	dr-1 reactor	NT1	kaiga-3 reactor	NT2	angra-2 reactor
NT1	dr-2 reactor	NT1	kaiga-4 reactor	NT2	angra-3 reactor
NT1	dr-3 reactor	NT1	kamini reactor	NT2	ardennes b-1 reactor
NT1	dragon reactor	NT1	knk reactor	NT2	ardennes b-2 reactor
NT1	dungeness-a reactor	NT1	kuhfr reactor	NT2	ardennes reactor
NT1	dungeness-b reactor	NT1	kursk-1 reactor	NT2	arkansas-1 reactor
NT1	ebor reactor	NT1	kursk-2 reactor	NT2	arkansas-2 reactor
NT1	egcr reactor	NT1	kursk-3 reactor	NT2	asco-1 reactor
NT1	el-1 reactor	NT1	kursk-4 reactor	NT2	asco-2 reactor
NT1	el-2 reactor	NT1	latina reactor	NT2	atlantic-1 reactor
NT1	el-4 reactor	NT1	leningrad-1 reactor	NT2	atlantic-2 reactor
NT1	eocr reactor	NT1	leningrad-2 reactor	NT2	basf-1 reactor
NT1	es-salam reactor	NT1	leningrad-3 reactor	NT2	basf-2 reactor
NT1	esada-vesr reactor	NT1	leningrad-4 reactor	NT2	beaver valley-1 reactor

NT2	beaver valley-2 reactor	NT2	forked river-1 reactor	NT2	neupotz-2 reactor
NT2	bellefonte-1 reactor	NT2	genkai-1 reactor	NT2	ngent sur seine-1 reactor
NT2	bellefonte-2 reactor	NT2	genkai-2 reactor	NT2	ngent sur seine-2 reactor
NT2	belleville sur loire-1 reactor	NT2	genkai-3 reactor	NT2	north anna-1 reactor
NT2	belleville sur loire-2 reactor	NT2	genkai-4 reactor	NT2	north anna-2 reactor
NT2	beznau-1 reactor	NT2	ginna-1 reactor	NT2	north anna-3 reactor
NT2	beznau-2 reactor	NT2	goesgen reactor	NT2	north anna-4 reactor
NT2	biblis-1 reactor	NT2	golfech-1 reactor	NT2	north coast-1 reactor
NT2	biblis-2 reactor	NT2	golfech-2 reactor	NT2	obrigheim reactor
NT2	biblis-3 reactor	NT2	grafenrheinfeld reactor	NT2	oconee-1 reactor
NT2	biblis-4 reactor	NT2	gravelines-1 reactor	NT2	oconee-2 reactor
NT2	blayais-1 reactor	NT2	gravelines-2 reactor	NT2	oconee-3 reactor
NT2	blue hills-1 reactor	NT2	gravelines-3 reactor	NT2	oi-1 reactor
NT2	blue hills-2 reactor	NT2	gravelines-4 reactor	NT2	oi-2 reactor
NT2	borssele reactor	NT2	gravelines-5 reactor	NT2	oi-3 reactor
NT2	br-3 reactor	NT2	gravelines-6 reactor	NT2	oi-4 reactor
NT2	braidwood-1 reactor	NT2	greene county reactor	NT2	oktembryan-2 reactor
NT2	braidwood-2 reactor	NT2	greenwood-2 reactor	NT2	olkiluoto-3 reactor
NT2	brokdorf reactor	NT2	greenwood-3 reactor	NT2	otto hahn reactor
NT2	bugey-2 reactor	NT2	grohnde reactor	NT2	palisades-1 reactor
NT2	bugey-3 reactor	NT2	hamm-uentrop reactor	NT2	palo verde-1 reactor
NT2	bugey-4 reactor	NT2	harris-1 reactor	NT2	palo verde-2 reactor
NT2	bugey-5 reactor	NT2	harris-2 reactor	NT2	palo verde-3 reactor
NT2	bw standard reactor	NT2	harris-3 reactor	NT2	palo verde-4 reactor
NT2	byron-1 reactor	NT2	harris-4 reactor	NT2	palo verde-5 reactor
NT2	byron-2 reactor	NT2	haven-1 reactor	NT2	paluel-1 reactor
NT2	calhoun-1 reactor	NT3	koshkonong-1 reactor	NT2	paluel-2 reactor
NT2	calhoun-2 reactor	NT2	haven-2 reactor	NT2	paluel-3 reactor
NT2	callaway-1 reactor	NT3	koshkonong-2 reactor	NT2	paluel-4 reactor
NT2	callaway-2 reactor	NT2	ikata-2 reactor	NT2	pat reactor
NT2	calvert cliffs-1 reactor	NT2	ikata-3 reactor	NT2	pebble springs-1 reactor
NT2	calvert cliffs-2 reactor	NT2	ikata reactor	NT2	pebble springs-2 reactor
NT2	catawba-1 reactor	NT2	indian point-1 reactor	NT2	penly-1 reactor
NT2	catawba-2 reactor	NT2	indian point-2 reactor	NT2	perkins-1 reactor
NT2	cattenom-1 reactor	NT2	indian point-3 reactor	NT2	perkins-2 reactor
NT2	cattenom-2 reactor	NT2	iran-1 reactor	NT2	perkins-3 reactor
NT2	cattenom-3 reactor	NT2	iran-2 reactor	NT2	philippsburg-2 reactor
NT2	cattenom-4 reactor	NT2	isar-2 reactor	NT2	pilgrim-2 reactor
NT2	ce standard reactor	NT2	jamesport-1 reactor	NT2	pilgrim-3 reactor
NT2	cherokee-1 reactor	NT2	jamesport-2 reactor	NT2	pm-2a reactor
NT2	cherokee-2 reactor	NT2	kewaunee reactor	NT2	pm-3a reactor
NT2	cherokee-3 reactor	NT2	koeberg-1 reactor	NT2	pnp-1 reactor
NT2	chinon-b1 reactor	NT2	koeberg-2 reactor	NT2	point beach-1 reactor
NT2	civaux-1 reactor	NT2	kori-1 reactor	NT2	point beach-2 reactor
NT2	civaux-2 reactor	NT2	kori-2 reactor	NT2	prairie island-1 reactor
NT2	comanche peak-1 reactor	NT2	kori-3 reactor	NT2	prairie island-2 reactor
NT2	comanche peak-2 reactor	NT2	kori-4 reactor	NT2	qinshan-1 reactor
NT2	connecticut yankee reactor	NT2	krsko reactor	NT2	qinshan-2-1 reactor
NT2	cook-1 reactor	NT2	lemoniz-1 reactor	NT2	qinshan-2-2 reactor
NT2	cook-2 reactor	NT2	lemoniz-2 reactor	NT2	quanicassee-1 reactor
NT2	cruas-2 reactor	NT2	lenin reactor	NT2	quanicassee-2 reactor
NT2	cruas-3 reactor	NT2	leonid brezhnev reactor	NT2	rancho seco-1 reactor
NT2	cruas-4 reactor	NT2	lingao-1 reactor	NT2	remerschen reactor
NT2	crystal river-3 reactor	NT2	lingao-2 reactor	NT2	rheinsberg akw1 reactor
NT2	crystal river-4 reactor	NT2	loft reactor	NT2	ringhals-2 reactor
NT2	dampierre-1 reactor	NT2	lucie-1 reactor	NT2	ringhals-3 reactor
NT2	dampierre-2 reactor	NT2	lucie-2 reactor	NT2	ringhals-4 reactor
NT2	dampierre-3 reactor	NT2	maanshan-1 reactor	NT2	robinson-2 reactor
NT2	dampierre-4 reactor	NT2	maine yankee reactor	NT2	rooppur reactor
NT2	davis besse-1 reactor	NT2	malibu-1 reactor	NT2	rowe yankee reactor
NT2	davis besse-2 reactor	NT2	marble hill-1 reactor	NT2	s1c prototype reactor
NT2	davis besse-3 reactor	NT2	marble hill-2 reactor	NT2	saint alban-1 reactor
NT2	daya bay-1 reactor	NT2	mc guire-1 reactor	NT2	saint alban-2 reactor
NT2	daya bay-2 reactor	NT2	mc guire-2 reactor	NT2	saint laurent-b1 reactor
NT2	diablo canyon-1 reactor	NT2	mh-1a reactor	NT2	salem-1 reactor
NT2	diablo canyon-2 reactor	NT2	midland-1 reactor	NT2	salem-2 reactor
NT2	doel-1 reactor	NT2	midland-2 reactor	NT2	san onofre-1 reactor
NT2	doel-2 reactor	NT2	mihama-1 reactor	NT2	san onofre-2 reactor
NT2	doel-3 reactor	NT2	mihama-2 reactor	NT2	san onofre-3 reactor
NT2	doel-4 reactor	NT2	mihama-3 reactor	NT2	savannah reactor
NT2	efdr-50 reactor	NT2	millstone-2 reactor	NT2	saxton reactor
NT2	emsland reactor	NT2	millstone-3 reactor	NT2	seabrook-1 reactor
NT2	erie-1 reactor	NT2	muelheim-kaerlich reactor	NT2	seabrook-2 reactor
NT2	erie-2 reactor	NT2	mutsu reactor	NT2	selni reactor
NT2	farley-1 reactor	NT2	neckar-1 reactor	NT2	sendai-1 reactor
NT2	farley-2 reactor	NT2	neckar-2 reactor	NT2	sendai-2 reactor
NT2	fessenheim-1 reactor	NT2	nep-1 reactor	NT2	sequoyah-1 reactor
NT2	flamanville-1 reactor	NT2	nep-2 reactor	NT2	sequoyah-2 reactor
NT2	flamanville-2 reactor	NT2	neupotz-1 reactor	NT2	shippingport reactor

NT2	sizewell-b reactor	NT3	greifswald-3 reactor	NT1	saphir reactor
NT2	sm-1 reactor	NT3	greifswald-4 reactor	NT1	scarabee reactor
NT2	sm-1a reactor	NT3	greifswald-5 reactor	NT1	shgrw reactor
NT2	south texas project-1 reactor	NT3	greifswald-6 reactor	NT1	shca reactor
NT2	south texas project-2 reactor	NT3	juragua-1 reactor	NT1	siloe reactor
NT2	stade reactor	NT3	kalinin-1 reactor	NT1	siloette reactor
NT2	sterling-1 reactor	NT3	kalinin-3 reactor	NT1	sizewell-a reactor
NT2	sterling-2 reactor	NT3	kecerovce-1 reactor	NT1	sm-2 reactor
NT2	summer-1 reactor	NT3	khmelnitskij-1 reactor	NT1	smolensk-1 reactor
NT2	sundesert-1 reactor	NT3	kola-1 reactor	NT1	smolensk-2 reactor
NT2	sundesert-2 reactor	NT3	kola-2 reactor	NT1	smolensk-3 reactor
NT2	surry-1 reactor	NT3	kola-3 reactor	NT1	spert-1 reactor
NT2	surry-2 reactor	NT3	kola-4 reactor	NT1	spert-2 reactor
NT2	surry-3 reactor	NT3	kozloduy-1 reactor	NT1	spert-3 reactor
NT2	surry-4 reactor	NT3	kozloduy-2 reactor	NT1	spert-4 reactor
NT2	takahama-1 reactor	NT3	kozloduy-3 reactor	NT1	spr-2 reactor
NT2	takahama-2 reactor	NT3	kozloduy-4 reactor	NT1	sr-1 reactor
NT2	takahama-3 reactor	NT3	kozloduy-5 reactor	NT1	sr-305 reactor
NT2	takahama-4 reactor	NT3	kozloduy-6 reactor	NT1	sr-3p reactor
NT2	three mile island-1 reactor	NT3	kudankulam-1 reactor	NT1	sre reactor
NT2	three mile island-2 reactor	NT3	kudankulam-2 reactor	NT1	src-utr-100 reactor
NT2	tihange-2 reactor	NT3	loviisa-1 reactor	NT1	stark reactor
NT2	tihange-3 reactor	NT3	loviisa-2 reactor	NT1	stek reactor
NT2	tihange reactor	NT3	mochovce-1 reactor	NT1	stir reactor
NT2	tomari-1 reactor	NT3	mochovce-2 reactor	NT1	supo reactor
NT2	tomari-2 reactor	NT3	novovoronezh-1 reactor	NT1	sur-100 series reactor
NT2	tricastin-1 reactor	NT3	novovoronezh-2 reactor	NT1	taiwan research reactor
NT2	tricastin-4 reactor	NT3	novovoronezh-3 reactor	NT1	tarapur-3 reactor
NT2	trillo-1 reactor	NT3	novovoronezh-4 reactor	NT1	tarapur-4 reactor
NT2	trojan reactor	NT3	novovoronezh-5 reactor	NT1	thermos reactor
NT2	tsuruga-2 reactor	NT3	paks-1 reactor	NT1	thetis reactor
NT2	turkey point-3 reactor	NT3	paks-2 reactor	NT1	thtr-300 reactor
NT2	turkey point-4 reactor	NT3	paks-3 reactor	NT1	tokai-mura reactor
NT2	tva-1 reactor	NT3	paks-4 reactor	NT1	torness reactor
NT2	tva-2 reactor	NT3	rovno-1 reactor	NT1	toshiba reactor
NT2	tyrone-1 reactor	NT3	rovno-2 reactor	NT1	tr-1 reactor
NT2	tyrone-2 reactor	NT3	rovno-3 reactor	NT1	tr-2 reactor
NT2	ulchin-1 reactor	NT3	rovno-4 reactor	NT1	trawsfynydd reactor
NT2	ulchin-2 reactor	NT3	rovno-5 reactor	NT1	treat reactor
NT2	ulchin-3 reactor	NT3	south ukrainian-1 reactor	NT1	trico reactor
NT2	ulchin-4 reactor	NT3	south ukrainian-2 reactor	NT1	triga-1-california reactor
NT2	unterweser reactor	NT3	south ukrainian-3 reactor	NT1	triga-1-hanover reactor
NT2	vahnum-1 reactor	NT3	stendal-1 reactor	NT1	triga-1-heidelberg reactor
NT2	vahnum-2 reactor	NT3	tatarian reactor	NT1	triga-1-michigan reactor
NT2	vandellos-2 reactor	NT3	temelin-1 reactor	NT1	triga-2-bandung reactor
NT2	vogtle-1 reactor	NT3	temelin-2 reactor	NT1	triga-2-bangladesh reactor
NT2	vogtle-2 reactor	NT3	tianwan-1 reactor	NT1	triga-2-dalat reactor
NT2	vogtle-3 reactor	NT3	zaporozhe-1 reactor	NT1	triga-2-illinois reactor
NT2	vogtle-4 reactor	NT3	zaporozhe-2 reactor	NT1	triga-2-kansas reactor
NT2	waterford-3 reactor	NT3	zaporozhe-3 reactor	NT1	triga-2-ljubljana reactor
NT2	waterford-4 reactor	NT3	zaporozhe-4 reactor	NT1	triga-2-mainz reactor
NT2	watts bar-1 reactor	NT3	zaporozhe-5 reactor	NT1	triga-2-musashi reactor
NT2	watts bar-2 reactor	NT3	zaporozhe-6 reactor	NT1	triga-2-pavia reactor
NT2	westinghouse standard reactor	NT2	wyhl-1 reactor	NT1	triga-2-pitesti reactor
NT2	wnp-1 reactor	NT2	wyhl-2 reactor	NT1	triga-2 reactor
NT2	wnp-3 reactor	NT2	yellow creek-1 reactor	NT1	triga-2-rikkyo reactor
NT2	wnp-4 reactor	NT2	yellow creek-2 reactor	NT1	triga-2-rome reactor
NT2	wnp-5 reactor	NT2	yonggwang-1 reactor	NT1	triga-2-seoul reactor
NT2	wolf creek-1 reactor	NT2	yonggwang-2 reactor	NT1	triga-2-vienna reactor
NT2	wup-3 reactor	NT2	yonggwang-3 reactor	NT1	triga-3-munich reactor
NT2	wup-4 reactor	NT2	yonggwang-4 reactor	NT1	triga-3-salazar reactor
NT2	wup-5 reactor	NT2	zion-1 reactor	NT1	triga-3-seoul reactor
NT2	wup-6 reactor	NT2	zion-2 reactor	NT1	triga-brazil reactor
NT2	wwer type reactors	NT2	zorita-1 reactor	NT1	triga-texas reactor
NT3	armenian-1 reactor	NT1	r-1 reactor	NT1	triga-veterans reactor
NT3	armenian-2 reactor	NT1	r-a reactor	NT1	triton reactor
NT3	balakovo-1 reactor	NT1	ra-5 reactor	NT1	trr-1 reactor
NT3	balakovo-2 reactor	NT1	ra-6 reactor	NT1	tz1 reactor
NT3	balakovo-3 reactor	NT1	ra-8 reactor	NT1	tz2 reactor
NT3	balakovo-4 reactor	NT1	rajasthan-5 reactor	NT1	ucbrr reactor
NT3	blahutovice-1 reactor	NT1	rajasthan-6 reactor	NT1	ufrt reactor
NT3	bohunice v-1 reactor	NT1	rb-1 reactor	NT1	uhtrex reactor
NT3	bohunice v-2 reactor	NT1	rb-2 reactor	NT1	uknr reactor
NT3	dukovany-1 reactor	NT1	rg-1m reactor	NT1	ulyse reactor
NT3	dukovany-2 reactor	NT1	ritmo reactor	NT1	umne-1 reactor
NT3	dukovany-3 reactor	NT1	rts-1 reactor	NT1	umrr reactor
NT3	dukovany-4 reactor	NT1	safari-1 reactor	NT1	urr reactor
NT3	greifswald-1 reactor	NT1	saint laurent-1 reactor	NT1	utr-10-kinki reactor
NT3	greifswald-2 reactor	NT1	saint laurent-2 reactor	NT1	utrr reactor

**NT1** uvar reactor  
**NT1** uwnr reactor  
**NT1** uwtr reactor  
**NT1** vandellos reactor  
**NT1** venus reactor  
**NT1** vg-400 reactor  
**NT1** vgr-50 reactor  
**NT1** vhtr reactor  
**NT1** vidal-1 reactor  
**NT1** vidal-2 reactor  
**NT1** voronezh ast-500 reactor  
**NT1** vpi-utr-10 reactor  
**NT1** vr-1 reactor  
**NT1** wagr reactor  
**NT1** windscale production reactors  
**NT1** wpir reactor  
**NT1** wr-1 reactor  
**NT1** wrrr reactor  
**NT1** wsur reactor  
**NT1** wtr reactor  
**NT1** wwr-2 reactor  
**NT1** wwr-k-almaty reactor  
**NT1** wwr-m-kiev reactor  
**NT1** wwr-m-leningrad reactor  
**NT1** wwr-s-bucharest reactor  
**NT1** wwr-s-budapest reactor  
**NT1** wwr-s-cairo reactor  
**NT1** wwr-s-moscow reactor  
**NT1** wwr-s-prague reactor  
**NT1** wwr-s-tashkent reactor  
**NT1** wwr-sm rossendorf reactor  
**NT1** wwr-z reactor  
**NT1** wylfa reactor  
**NT1** x-10 reactor  
**NT1** zed-2 reactor  
**NT1** zenith reactor  
**NT1** zerlina reactor  
**NT1** zlfr reactor  
**NT1** zpr reactor  
**RT** lwgr type reactors

### THERMAL RECOVERY

*INIS: 1992-04-06; ETDE: 1981-05-18*

**BT1** enhanced recovery  
**RT** in-situ combustion  
**RT** steam injection

### THERMAL SHIELDS

**BT1** shields  
**RT** thermal insulation

### THERMAL SHOCK

**UF** shock (thermal)  
**RT** heat treatments  
**RT** thermal cycling  
**RT** thermal stresses

### THERMAL SPIKES

*1996-07-23*

**UF** spikes (thermal)  
**UF** thermal-nelson model  
**RT** crystal defects  
**RT** radiation effects

### THERMAL SPRINGS

*INIS: 2000-01-26; ETDE: 1976-01-23*

*Springs whose water temperature is appreciably higher than the local mean annual atmospheric temperature. A thermal spring may be a hot spring or a warm spring.*

**SF** geothermal springs  
**SF** thermal waters  
**BT1** water springs  
**NT1** hot springs  
**NT2** geysers  
**NT1** warm springs  
**RT** geothermal energy  
**RT** geothermal fields  
**RT** hydrothermal systems  
**RT** mineral springs

### thermal storage

*INIS: 1979-01-18; ETDE: 1979-02-05*

**USE** heat storage

### THERMAL STRESSES

**BT1** stresses  
**RT** thermal fractures  
**RT** thermal fracturing  
**RT** thermal shock  
**RT** thermoelasticity

### thermal surveys

*INIS: 2000-01-21; ETDE: 1980-02-11*

**USE** temperature surveys

### THERMAL TESTING

**\*BT1** nondestructive testing  
**NT1** frost tests  
**RT** thermography

### THERMAL TRANSMISSION ICES

*INIS: 2000-04-12; ETDE: 1978-10-23*

*High-quality thermal energy generated remotely and transmitted in thermal form to final cogeneration site.*

**\*BT1** ices program  
**RT** cogeneration  
**RT** district heating

### THERMAL UTILIZATION

**RT** multiplication factors

### thermal waters

*2000-03-29*

*Waters, generally of a spring or geyser, whose temperature is appreciably above the local mean annual air temperature.*

*(Prior to April 1994, this was a valid ETDE descriptor.)*

**SEE** geothermal fluids  
**SEE** geysers  
**SEE** hot springs  
**SEE** thermal springs

### THERMALIZATION

*Establishment of thermal equilibrium between neutrons and their surroundings.*

**BT1** slowing-down

### thermally active structural components

*2005-12-19*

*Use a descriptor for the specific structural component, e.g. FLOORS, WALLS, and one or more of the descriptors below.*

**SEE** cooling systems  
**SEE** heating systems  
**SEE** space hvac systems

### THERMIC DIODE SOLAR PANELS

*INIS: 2000-04-12; ETDE: 1979-07-18*

**\*BT1** passive solar heating systems  
**\*BT1** passive solar water heaters  
**RT** heat storage  
**RT** solar collectors

### thermionic cells

**USE** thermionic converters

### THERMIONIC COLLECTORS

*INIS: 1978-08-30; ETDE: 1976-01-07*

**RT** anodes  
**RT** thermionic converters  
**RT** thermionic diodes

### THERMIONIC CONVERSION

**\*BT1** direct energy conversion  
**RT** thermionic converters  
**RT** thermionic diodes

### THERMIONIC CONVERTERS

**UF** thermionic cells

**UF** thermionic generators  
**BT1** direct energy converters  
**RT** thermionic collectors  
**RT** thermionic conversion  
**RT** thermionic diodes  
**RT** thermionic emitters  
**RT** thermionic fuel elements  
**RT** thermionic reactors  
**RT** topaz reactor

### THERMIONIC DIODES

**UF** plasma diodes  
**\*BT1** diode tubes  
**\*BT1** thermionic tubes  
**RT** magnetic insulation  
**RT** semiconductor diodes  
**RT** thermionic collectors  
**RT** thermionic conversion  
**RT** thermionic converters  
**RT** thermionic emission  
**RT** thermionic emitters

### THERMIONIC EMISSION

**BT1** emission  
**RT** electron emission  
**RT** electron tubes  
**RT** thermionic diodes  
**RT** thermionic emitters

### THERMIONIC EMITTERS

*INIS: 1978-07-31; ETDE: 1976-01-07*

**RT** cathodes  
**RT** electron sources  
**RT** thermionic converters  
**RT** thermionic diodes  
**RT** thermionic emission

### THERMIONIC FUEL ELEMENTS

**\*BT1** fuel elements  
**RT** thermionic converters  
**RT** thermionic reactors

### thermionic generators

**USE** thermionic converters

### thermionic reactor critical experiments

*2000-04-12*

*(Prior to February 1995, this was a valid ETDE descriptor.)*

**USE** thermionic reactors  
**USE** zero power reactors

### thermionic reactor experiment (trex)

*2000-04-12*

**USE** thermionic reactors

### THERMIONIC REACTORS

*Limited to reactors with in-core thermionic cells.*

**UF** in-core thermionic reactor  
**UF** itr reactor  
**UF** thermionic reactor critical experiments  
**UF** thermionic reactor experiment (trex)  
**UF** trex (thermionic reactor critical experiments)  
**\*BT1** power reactors  
**RT** mobile reactors  
**RT** snap reactors  
**RT** thermionic converters  
**RT** thermionic fuel elements

### THERMIONIC TUBES

**BT1** electron tubes  
**NT1** thermionic diodes  
**RT** microwave tubes

### THERMIONICS

**RT** richardson equation  
**RT** schottky effect



**THERMISTORS**

- BT1 semiconductor devices  
RT resistors

**THERMITE PROCESS**

- \*BT1 reduction  
RT welding

**THERMOACTINOMYCES**

INIS: 2000-04-12; ETDE: 1979-03-29

- \*BT1 bacteria  
RT enzymatic hydrolysis

**THERMOCHEMICAL DIAGRAMS**

INIS: 1992-02-24; ETDE: 1982-02-23

- \*BT1 diagrams  
RT corrosion  
RT phase studies  
RT temperature dependence

**THERMOCHEMICAL HEAT****STORAGE**

INIS: 1993-06-04; ETDE: 1977-06-30

Storage of thermal energy in the heat of decomposition and recombination of reversible chemical reactions.

- UF chemical heat storage  
\*BT1 heat storage  
RT chemical heat pumps  
RT dissociation heat  
RT formation heat  
RT reaction heat  
RT thermal energy storage equipment  
RT thermochemical processes

**THERMOCHEMICAL PROCESSES**

1999-02-01

- UF biotermohol process  
NT1 combustion  
NT2 cocombustion  
NT2 fluidized-bed combustion  
NT2 in-situ combustion  
NT2 oxyfuel combustion process  
NT2 pulse combustion  
NT2 reverse combustion  
NT2 spontaneous combustion  
NT2 staged combustion  
NT1 gasification  
NT2 biothermgas process  
NT2 coal gasification  
NT3 agglomerating ash process  
NT3 arc coal process  
NT3 babcock and wilcox-dupont process  
NT3 beacon process  
NT3 bgc-lurgi slagging process  
NT3 bi-gas process  
NT3 ce entrained fuel process  
NT3 coalcon process  
NT3 cogas process  
NT3 combined-cycle fw process  
NT3 consol synthetic gas process  
NT3 cs-r process  
NT3 dow gasification process  
NT3 exxon gasification process  
NT3 flash hydrolysis process  
NT3 gegas process  
NT3 gkt process  
NT3 htw process  
NT3 humboldt gasification process  
NT3 hydrane process  
NT3 hygas process  
NT3 i g process  
NT3 kbw gasification process  
NT3 kellogg process  
NT3 kilngas process  
NT3 kloekner-iron bath coal gasification process  
NT3 koppers process  
NT3 koppers-totzek process

- NT3 krw gasification process  
NT3 lurgi cfb gasification process  
NT3 lurgi process  
NT3 lurgi slagging process  
NT3 molten iron puregas process  
NT3 molten salt coal gasification process  
NT3 moving-burden process  
NT3 occidental flash pyrolysis process  
NT3 otto rummel slag bath process  
NT3 peatgas process  
NT3 prenflo process  
NT3 ruhr 100 gasification process  
NT3 saarberg-otto gasification process  
NT3 seacoke process  
NT3 shell-koppers gasification process  
NT3 synthane process  
NT3 texaco gasification process  
NT3 tosco-dyne process  
NT3 toscoal process  
NT3 u-gas process  
NT3 wellman-galusha process  
NT3 wellman-incandescent process  
NT3 westinghouse gasification process  
NT3 woodall-duckham process  
NT2 fluidized bed refuse gasification  
NT2 in-situ gasification  
NT1 liquefaction  
NT2 coal liquefaction  
NT3 bcl process  
NT3 bergius process  
NT3 catalytic hydrosolvation process  
NT3 cffc process  
NT3 coed process  
NT3 costeam process  
NT3 dow liquefaction process  
NT3 exxon liquefaction process  
NT3 flash hydrolysis process  
NT3 h-coal process  
NT3 liquid phase methanol process  
NT3 occidental flash pyrolysis process  
NT3 pamco process  
NT3 pyrosol process  
NT3 sasol-ii process  
NT3 sasol process  
NT3 src-ii process  
NT3 synthoil process  
NT3 synthol process  
NT3 tsl process  
NT2 in-situ liquefaction  
NT1 partial oxidation processes  
NT1 pyrolysis  
NT2 calcination  
NT2 cracking  
NT3 catalytic cracking  
NT3 hydrocracking  
NT3 thermal cracking  
NT2 flash hydrolysis process  
RT hydrogen production  
RT thermochemical heat storage

**THERMOCHROMATOGRAPHY**

INIS: 1977-01-26; ETDE: 1977-04-13

- \*BT1 chromatography

**THERMOCOUPLES**

- UF thermopiles  
BT1 measuring instruments  
RT calorimetric dosimeters  
RT fission thermocouple detectors  
RT reactor control systems  
RT temperature measurement  
RT thermoelectric generators  
RT thermoelectricity

**thermodiffusion**

INIS: 1984-12-04; ETDE: 2002-06-13

- USE thermal diffusion

**THERMODYNAMIC ACTIVITY**

INIS: 1976-10-07; ETDE: 1976-11-01

Used instead of molar fractions in non-ideal solutions.

- UF activity coefficient  
UF chemical activity  
RT chemical reactions  
RT concentration ratio  
RT equilibrium  
RT phase studies  
RT thermodynamics

**THERMODYNAMIC CYCLES**

1996-08-05

- UF cycles (thermodynamic)  
NT1 absorption refrigeration cycle  
NT1 bottoming cycles  
NT1 brayton cycle  
NT1 carnot cycle  
NT1 combined cycles  
NT1 ericsson cycle  
NT1 lift cycles  
NT2 mist-lift cycles  
NT1 otto cycle  
NT1 rankine cycle  
NT1 stirling cycle  
NT1 vapor compression refrigeration cycle  
NT1 vuilleumier cycle  
RT binary-fluid systems  
RT flashed steam systems  
RT heat engines  
RT thermodynamics  
RT topping cycles  
RT total flow systems

**THERMODYNAMIC MODEL**

- \*BT1 particle models  
\*BT1 statistical models  
NT1 hydrodynamic model

**THERMODYNAMIC MOLECULAR MODEL**

- \*BT1 molecular models

**THERMODYNAMIC PROPERTIES**

- UF heat transfer properties  
UF thermal properties  
SF mean radiant temperature  
BT1 physical properties  
NT1 critical pressure  
NT1 enthalpy  
NT2 absorption heat  
NT2 adsorption heat  
NT2 mixing heat  
NT2 reaction heat  
NT3 combustion heat  
NT3 dissociation heat  
NT3 formation heat  
NT2 solution heat  
NT2 transition heat  
NT3 fusion heat  
NT3 sublimation heat  
NT3 vaporization heat  
NT1 entropy  
NT1 free energy  
NT2 formation free energy  
NT2 surface energy  
NT1 free enthalpy  
NT2 formation free enthalpy  
NT2 oxygen potential  
NT1 partial pressure  
NT1 specific heat  
NT2 electronic specific heat  
NT2 magnetic specific heat  
NT2 nuclear specific heat  
NT1 stored energy  
NT1 thermal conductivity  
NT1 thermal diffusivity  
NT1 transition temperature  
NT2 boiling points

**NT2** critical temperature  
**NT2** curie point  
**NT2** dew point  
**NT2** lambda point  
**NT2** melting points  
**NT2** neel temperature  
**NT1** vapor pressure  
*RT* apparent molal volume  
*RT* combustion properties  
*RT* limiting values  
*RT* partial molal volume  
*RT* prandtl number  
*RT* thermal equilibrium  
*RT* thermal expansion  
*RT* thermal radiation  
*RT* thermodynamics

## THERMODYNAMICS

(From September 1978 to March 1997  
 JOULE-THOMSON EFFECT was a valid  
 ETDE descriptor.)

*SF* joule-thomson effect  
*RT* adiabatic processes  
*RT* brayton cycle  
*RT* carnot cycle  
*RT* coefficient of performance  
*RT* degrees of freedom  
*RT* energy  
*RT* enthalpy  
*RT* entropy  
*RT* equations of state  
*RT* ericsson cycle  
*RT* exergy  
*RT* heat sinks  
*RT* heat transfer  
*RT* irreversible processes  
*RT* isentropic processes  
*RT* isothermal processes  
*RT* khalatnikov theory  
*RT* lte  
*RT* mollier diagrams  
*RT* nernst heat theorem  
*RT* onsager relations  
*RT* partition functions  
*RT* physical metallurgy  
*RT* planck radiation formula  
*RT* rankine cycle  
*RT* saha equation  
*RT* steam quality  
*RT* stirling cycle  
*RT* thermal efficiency  
*RT* thermal hydraulics  
*RT* thermodynamic activity  
*RT* thermodynamic cycles  
*RT* thermodynamic properties  
*RT* virial equation  
*RT* wigner distribution

## THERMOELASTICITY

*INIS: 1979-02-21; ETDE: 1977-04-12*  
*Dependence of the stress distribution of an  
 elastic solid on its thermal state, or of its  
 thermal conductivity on the stress distribution.*

\*BT1 elasticity  
*RT* bowing  
*RT* stresses  
*RT* temperature dependence  
*RT* thermal conductivity  
*RT* thermal expansion  
*RT* thermal stresses

## thermoelectric cells

USE thermoelectric generators

## THERMOELECTRIC CONVERSION

\*BT1 direct energy conversion  
*RT* thermal batteries  
*RT* thermoelectric generators  
*RT* thermoelectric heaters  
*RT* thermoelectric refrigerators

## thermoelectric converters

USE thermoelectric generators

## THERMOELECTRIC COOLERS

*INIS: 1999-05-26; ETDE: 1976-11-17*  
 (Until May 1999 this information was indexed  
 by THERMOELECTRIC  
 REFRIGERATORS.)

*RT* thermoelectric refrigerators

## THERMOELECTRIC GENERATORS

*UF* thermoelectric cells  
*UF* thermoelectric converters  
 BT1 direct energy converters  
*RT* radioisotope batteries  
*RT* radioisotope heat sources  
*RT* thermocouples  
*RT* thermoelectric conversion  
*RT* thermoelectric materials  
*RT* thermoelectricity

## thermoelectric heat pumps

*INIS: 2000-04-12; ETDE: 1976-11-17*  
 SEE thermoelectric heaters  
 SEE thermoelectric refrigerators

## THERMOELECTRIC HEATERS

*INIS: 2000-04-12; ETDE: 1976-11-17*  
*SF* thermoelectric heat pumps  
 BT1 direct energy converters  
 BT1 heaters  
*RT* thermoelectric conversion

## THERMOELECTRIC MATERIALS

*1993-01-22*  
 BT1 materials  
*RT* semiconductor materials  
*RT* thermoelectric generators  
*RT* thermoelectricity

## THERMOELECTRIC PROPERTIES

\*BT1 electrical properties

## THERMOELECTRIC REACTORS

*INIS: 1995-01-10; ETDE: 1986-06-12*  
 \*BT1 power reactors

## THERMOELECTRIC REFRIGERATORS

*INIS: 1980-04-02; ETDE: 1976-11-17*  
*SF* thermoelectric heat pumps  
 BT1 direct energy converters  
 BT1 refrigerators  
*RT* thermoelectric conversion  
*RT* thermoelectric coolers

## THERMOELECTRICITY

BT1 electricity  
*RT* seebeck effect  
*RT* thermocouples  
*RT* thermoelectric generators  
*RT* thermoelectric materials

## THERMOGRAPHY

*INIS: 1978-07-31; ETDE: 1978-09-11*  
*Technique employing heat transfer transients.*

BT1 measuring methods  
**NT1** infrared thermography  
*RT* infrared radiation  
*RT* remote sensing  
*RT* temperature measurement  
*RT* thermal testing

## thermogravimetric analysis

*INIS: 1975-11-11; ETDE: 2002-06-13*  
 USE thermal gravimetric analysis

## thermogravimetry

USE thermal gravimetric analysis

## thermohydraulics

*2003-10-21*  
 USE thermal hydraulics

## THERMOLUMINESCENCE

\*BT1 luminescence  
**NT1** radiothermoluminescence  
*RT* thermoluminescent dosimeters

## THERMOLUMINESCENT DOSEMETERS

*UF* tld (dosemeters)  
*UF* tld systems  
 \*BT1 luminescent dosimeters  
*RT* calcium fluorides  
*RT* calcium sulfates  
*RT* lithium fluorides  
*RT* personnel dosimetry  
*RT* thermoluminescence  
*RT* thermoluminescent dosimetry

## THERMOLUMINESCENT DOSIMETRY

*UF* tld (dosimetry)  
 BT1 dosimetry  
*RT* thermoluminescent dosimeters

## THERMOMAGNETIC CONVERSION

\*BT1 direct energy conversion

## THERMOMAGNETISM

BT1 magnetism

## THERMOMECHANICAL TREATMENTS

*INIS: 1992-04-13; ETDE: 1982-11-08*  
*Combination of material-forming processes  
 with heat treatments in order to obtain  
 specific material properties.*  
 BT1 heat treatments  
 \*BT1 materials working

## THERMOMETERS

BT1 measuring instruments  
**NT1** geothermometers  
**NT1** noise thermometers  
*RT* bolometers  
*RT* temperature measurement

## THERMOMETRIC TITRATION

*2000-04-12*  
 \*BT1 titration

## THERMONUCLEAR DEVICES

*1996-04-16*  
 (From January 1975 till June 1991  
 HARMONICA DEVICES was a valid ETDE  
 descriptor.)

*UF* harmonica devices  
**NT1** closed plasma devices  
**NT2** astron  
**NT2** blascon devices  
**NT2** compact torus  
**NT3** field-reversed theta pinch devices  
**NT3** rotamak devices  
**NT2** heliotron  
**NT2** internal ring devices  
**NT3** fm devices  
**NT3** levitron devices  
**NT3** lm devices  
**NT3** spherator  
**NT3** tokapole devices  
**NT3** tornado devices  
**NT2** lhd device  
**NT2** stellarators  
**NT3** cleo stellarator  
**NT3** heliac stellarators  
**NT4** h-1 heliac  
**NT4** hsx stellarator  
**NT4** sheila heliac  
**NT4** tj-ii heliac

- NT3** heliotron-e stellarator  
**NT3** ims stellarator  
**NT3** jipp stellarator  
**NT3** jippt-2 device  
**NT3** l-2 stellarator  
**NT3** proto-cleo stellarators  
**NT3** sirius device  
**NT3** stellarator model c  
**NT3** torsatron stellarators  
**NT4** atf torsatron  
**NT4** chs torsatron  
**NT4** tj-iu torsatron  
**NT4** vint torsatron  
**NT3** uragan stellarator  
**NT3** wega stellarator  
**NT3** wendelstein-2b stellarator  
**NT3** wendelstein-7 stellarator  
**NT2** tokamak devices  
**NT3** act devices  
**NT3** aditya tokamak  
**NT3** alcator device  
**NT3** asdex tokamak  
**NT3** atc devices  
**NT3** castor tokamak  
**NT3** columbia high-beta tokamak  
**NT3** compact ignition tokamak  
**NT3** compass-d tokamak  
**NT3** continuous current tokamak  
**NT3** ct-6b tokamak  
**NT3** dante tokamak  
**NT3** dite tokamak  
**NT3** doublet-2 device  
**NT3** doublet-3 device  
**NT3** etf tokamak  
**NT3** ft tokamak  
**NT3** hl-1 tokamak  
**NT3** hl-1m tokamak  
**NT3** hl-2 tokamak  
**NT3** hl-2a tokamak  
**NT3** ht-2 tokamak  
**NT3** ht-6b tokamak  
**NT3** ht-6m tokamak  
**NT3** ht-7 tokamak  
**NT3** ht-7u tokamak  
**NT3** hybtok tokamaks  
**NT3** ignition spherical torus  
**NT3** intor tokamak  
**NT3** isttok tokamak  
**NT3** isx tokamak  
**NT3** iter tokamak  
**NT3** jet tokamak  
**NT3** jft-2 tokamak  
**NT3** jft-2a tokamak  
**NT3** jft-2m tokamak  
**NT3** jippt-2 device  
**NT3** jt-60 tokamak  
**NT3** jt-60u tokamak  
**NT3** jxfr tokamak  
**NT3** kt-2 tokamak  
**NT3** lt-3 tokamak  
**NT3** lt-4 tokamak  
**NT3** mt-1 tokamak  
**NT3** mtx tokamak  
**NT3** net tokamak  
**NT3** ormak devices  
**NT3** pbx devices  
**NT3** pdx devices  
**NT3** petula tokamak  
**NT3** phaedrus-t tokamak  
**NT3** plt devices  
**NT3** pulsator devices  
**NT3** rtp tokamak  
**NT3** sinp tokamak  
**NT3** spheromak devices  
**NT4** cdx-u spheromak  
**NT4** ctx spheromak  
**NT4** globus-m spheromak  
**NT4** mast tokamak  
**NT4** nstx device  
**NT4** sspcx device  
**NT4** sunist spheromak  
**NT4** ts-3 device  
**NT3** st tokamak  
**NT3** starfire tokamak  
**NT3** start tokamak  
**NT3** stor-m tokamak  
**NT3** stx devices  
**NT3** surmac tokamak  
**NT3** t-10 tokamak  
**NT3** t-14 tokamak  
**NT3** t-15 tokamak  
**NT3** t-7 tokamak  
**NT3** tbr tokamak  
**NT3** tca tokamak  
**NT3** tcabr tokamak  
**NT3** tcv tokamak  
**NT3** text devices  
**NT3** textor tokamak  
**NT3** tfr tokamak  
**NT3** tffr tokamak  
**NT3** tiber-x tokamak  
**NT3** tj-1 tokamak  
**NT3** tnt-a tokamak  
**NT3** tokapole devices  
**NT3** tokoloshe tokamak  
**NT3** tore supra tokamak  
**NT3** tormac devices  
**NT3** tortus tokamak  
**NT3** torus-ii tokamak  
**NT3** toscia tokamak  
**NT3** tpx device  
**NT3** triam-1 tokamak  
**NT3** tuman devices  
**NT3** two-component torus  
**NT3** uwmak devices  
**NT3** varennes tokamak  
**NT3** versator tokamak  
**NT3** wt-3 tokamak  
**NT2** toroidal pinch devices  
**NT3** reversed-field pinch devices  
**NT4** artemis device  
**NT4** extrap-t2 device  
**NT4** hbtx devices  
**NT4** mst device  
**NT4** rfx device  
**NT4** tpe-1rml5 device  
**NT4** tpe-rx device  
**NT4** zt-40 devices  
**NT4** zt-p devices  
**NT4** zeta devices  
**NT3** toroidal screw pinch devices  
**NT4** stp-3m device  
**NT4** tpe-2 device  
**NT3** toroidal theta pinch devices  
**NT4** scyllac devices  
**NT1** icf devices  
**NT2** angara-5 device  
**NT1** migma devices  
**NT1** open plasma devices  
**NT2** baseball devices  
**NT2** linear pinch devices  
**NT3** linear hard core pinch devices  
**NT3** linear screw pinch devices  
**NT3** linear theta pinch devices  
**NT4** isar devices  
**NT4** scylla devices  
**NT3** linear z pinch devices  
**NT2** magnetic mirrors  
**NT3** 2x devices  
**NT3** alice  
**NT3** beta ii devices  
**NT3** bumpy tori  
**NT4** elmo bumpy torus  
**NT3** burnout devices  
**NT3** circe devices  
**NT3** deca devices  
**NT3** elmo devices  
**NT4** elmo bumpy torus  
**NT3** gol-3 device  
**NT3** imp device  
**NT3** mftf devices  
**NT3** ogra  
**NT3** phoenix devices  
**NT3** pleiade device  
**NT3** reversed-field mirrors  
**NT3** tandem mirrors  
**NT4** gamma 10 devices  
**NT4** phaedrus mirror devices  
**NT4** tara devices  
**NT4** tmx devices  
**NT2** plasma focus devices  
**NT3** pf-1000 device  
**NT2** q devices  
**NT3** helios devices  
**NT3** qp devices  
**NT1** pinch devices  
**NT2** field-reversed theta pinch devices  
**NT2** linear pinch devices  
**NT3** linear hard core pinch devices  
**NT3** linear screw pinch devices  
**NT3** linear theta pinch devices  
**NT4** isar devices  
**NT4** scylla devices  
**NT3** linear z pinch devices  
**NT2** toroidal pinch devices  
**NT3** reversed-field pinch devices  
**NT4** artemis device  
**NT4** extrap-t2 device  
**NT4** hbtx devices  
**NT4** mst device  
**NT4** rfx device  
**NT4** tpe-1rml5 device  
**NT4** tpe-rx device  
**NT4** zt-40 devices  
**NT4** zt-p devices  
**NT3** tlp devices  
**NT4** zeta devices  
**NT3** toroidal screw pinch devices  
**NT4** stp-3m device  
**NT4** tpe-2 device  
**NT3** toroidal theta pinch devices  
**NT4** scyllac devices  
**NT1** vintoron devices  
**RT** beam injection  
**RT** breeding blankets  
**RT** confinement time  
**RT** d-t operation  
**RT** discharge quenching  
**RT** lawson criterion  
**RT** limiters  
**RT** magnetic field configurations  
**RT** mass balance  
**RT** plasma heating  
**RT** plasma production  
**RT** rotational transform  
**RT** thermonuclear reactors  
**RT** tritium recovery  
**THERMONUCLEAR EXPLOSIONS**  
**UF** bravo event  
**UF** mike event  
**UF** schooner event  
**\*BT1** nuclear explosions  
**RT** castle project  
**RT** thermonuclear reactions  
**THERMONUCLEAR FUELS**  
**1996-03-04**  
**UF** fusion fuels  
**UF** reactor fuels (fusion)  
**BT1** fuels  
**RT** d-t operation  
**RT** deuterium  
**RT** electron beam targets  
**RT** fuel feeding systems  
**RT** fusion yield  
**RT** gas injection

RT ion beam targets  
 RT laser targets  
 RT particle influx  
 RT pellet injection  
 RT recycling  
 RT thermonuclear reactor fueling  
 RT tritium  
 RT tritium systems test assembly

**THERMONUCLEAR IGNITION**

UF ignition (thermonuclear)  
 UF reactor start-up (thermonuclear ignition)  
 RT compact ignition tokamak  
 RT reactor start-up  
 RT thermonuclear reactors  
 RT tiber-x tokamak

**thermonuclear implosions (laser)**

INIS: 1993-11-10; ETDE: 2002-06-13  
 USE laser implosions

**THERMONUCLEAR POWER PLANTS**

INIS: 1979-04-27; ETDE: 1978-08-08  
 \*BT1 thermal power plants  
 RT nuclear power plants  
 RT thermonuclear reactors

**THERMONUCLEAR REACTIONS**

1996-07-23  
*Exoenergetic fusion reactions between light nuclei; are always accompanied by release of the excess binding energy.*  
 UF fusion (nuclear)  
 UF fusion reactions (exoenergetic)  
 UF fusion reactions (thermonuclear)  
 SF fusion reactions  
 SF sherwood project  
 BT1 nuclear reactions  
 \*BT1 nucleosynthesis  
 NT1 impact fusion  
 NT1 muon-catalyzed fusion  
 RT chain reactions  
 RT cold fusion  
 RT fusion yield  
 RT heavy ion fusion reactions  
 RT helium ash  
 RT thermonuclear explosions

**THERMONUCLEAR REACTOR COOLING SYSTEMS**

1997-06-05  
 UF cooling systems (fusion reactor)  
 UF reactor cooling systems (fusion)  
 \*BT1 cooling systems  
 RT heat transfer  
 RT thermonuclear reactors

**THERMONUCLEAR REACTOR FUELING**

INIS: 1982-11-30; ETDE: 1989-02-13  
 UF charging (fusion reactor)  
 UF reactor fueling (fusion reactors)  
 RT fuel feeding systems  
 RT gas injection  
 RT pellet injection  
 RT thermonuclear fuels  
 RT thermonuclear reactors  
 RT tritium systems test assembly

**THERMONUCLEAR REACTOR MATERIALS**

1975-09-25  
*To be assigned in conjunction with the specific descriptor for the material used.*  
 UF fusion-reactor materials  
 UF reactor materials (fusion reactors)  
 BT1 materials  
 RT fmit linac  
 RT thermonuclear reactors

**THERMONUCLEAR REACTOR WALLS**

UF walls (thermonuclear reactor)  
 NT1 first wall  
 RT flibe  
 RT thermonuclear reactors

**THERMONUCLEAR REACTORS**

1995-02-15  
*For conceptual design studies; coordinate with descriptor for existing thermonuclear device if appropriate.*

UF fusion energy  
 UF fusion reactors  
 NT1 d-d reactors  
 NT1 d-he reactors  
 NT1 d-t reactors  
 NT2 pulsed d-t reactors  
 NT3 reference theta pinch reactor  
 NT2 steady-state d-t reactors  
 NT1 electron beam fusion reactors  
 NT1 ion beam fusion reactors  
 NT1 laser fusion reactors  
 NT2 cascade reactors  
 NT2 hylife converter  
 NT1 linear pinch type reactors  
 NT1 linus reactors  
 NT1 magnetic mirror type reactors  
 NT2 mars reactor  
 NT2 minimars reactor  
 NT2 tmr reactors  
 NT1 pulsed fusion reactors  
 NT2 pulsed d-t reactors  
 NT3 reference theta pinch reactor  
 NT1 steady-state fusion reactors  
 NT2 steady-state d-t reactors  
 NT1 stellarator type reactors  
 NT1 tokamak type reactors  
 NT2 compact ignition tokamak  
 NT2 doublet reactors  
 NT2 iter tokamak  
 NT2 tentok reactors  
 NT2 tfcx reactors  
 NT2 tns reactors

RT breakeven  
 RT breeding pellets  
 RT confinement time  
 RT felix facility  
 RT fuel injection systems  
 RT fusion yield  
 RT hybrid reactors  
 RT hybrid systems  
 RT mass balance  
 RT power  
 RT thermonuclear devices  
 RT thermonuclear ignition  
 RT thermonuclear power plants  
 RT thermonuclear reactor cooling systems  
 RT thermonuclear reactor fueling  
 RT thermonuclear reactor materials  
 RT thermonuclear reactor walls  
 RT tritium recovery

**thermonuclear weapons**

USE nuclear weapons

**THERMOPHILIC CONDITIONS**

INIS: 1992-03-10; ETDE: 1977-05-09  
*Temperature range centered at 70 degrees C favoring the growth of certain bacteria.*  
 RT anaerobic digestion  
 RT fermentation  
 RT mesophilic conditions

**THERMOPHORESIS**

INIS: 1986-09-26; ETDE: 1980-05-06  
*A process in which particles migrate in a gas under the influence of forces created by a temperature gradient.*  
 RT electrophoresis

**THERMOPHOTOVOLTAIC CONVERSION**

2000-04-12  
 \*BT1 direct energy conversion  
 RT photovoltaic conversion  
 RT thermophotovoltaic converters

**THERMOPHOTOVOLTAIC CONVERTERS**

1999-08-04  
 BT1 direct energy converters  
 RT photovoltaic cells  
 RT thermophotovoltaic conversion

**thermopiles**

INIS: 2000-04-12; ETDE: 1979-05-09  
 USE thermocouples

**THERMOPLASTICS**

\*BT1 plastics

**THERMOREGULATION**

INIS: 1999-04-07; ETDE: 1977-07-23  
*Mechanism by which mammals and birds attempt to balance heat gain and heat loss in order to maintain a constant body temperature when exposed to variations in temperature of the surroundings.*  
 (Until April 1999 this concept was indexed by BODY TEMPERATURE and TEMPERATURE CONTROL.)  
 RT body temperature  
 RT metabolism  
 RT physiology

**THERMOS REACTOR**

INIS: 1979-02-21; ETDE: 1979-03-28  
 \*BT1 process heat reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**THERMOSPHERE**

BT1 earth atmosphere

**THERMOSTATS**

\*BT1 control equipment  
 NT1 cryostats  
 RT temperature control

**THERMOSYPHON EFFECT**

INIS: 1993-02-16; ETDE: 1977-07-23  
*The flow of fluid due to the density differential created by temperature gradients.*  
 \*BT1 convection  
 RT circulating systems  
 RT passive solar water heaters  
 RT self-pumping systems

**THERMOSYPHONS**

INIS: 1983-06-30; ETDE: 1979-04-11  
*Systems of natural circulation in a fluid caused by the difference between hot and cold portions.*  
 RT heat transfer  
 RT natural convection

**thermox process**

1996-07-08  
 (Until June 1996 this was a valid descriptor.)  
 USE reprocessing

**thesauri**

INIS: 1977-09-06; ETDE: 1977-11-28  
 USE standardized terminology

**theta-1640 resonances**

INIS: 2000-04-12; ETDE: 1984-12-26  
(Prior to February 1988 this was a valid ETDE descriptor.)  
USE f2-1720 mesons

**theta-1690 resonances**

INIS: 1987-12-21; ETDE: 2002-06-13  
(Prior to December 1987 this was a valid descriptor.)  
USE f2-1720 mesons

**THETA PINCH**

BT1 pinch effect  
RT linear theta pinch devices  
RT reference theta pinch reactor  
RT toroidal theta pinch devices

**THETIS REACTOR**

Univ. Gent, Institute for Nuclear Sciences,  
Pietersnieuwstraat, Belgium.  
UF *iisnr reactor*  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**thf**

INIS: 1980-09-12; ETDE: 1979-11-23  
USE tetrahydrofuran

**THIADIAZOLES**

Compounds that contain a five-membered heterocyclic ring containing one sulfur and two nitrogen atoms.  
\*BT1 azoles  
\*BT1 organic sulfur compounds

**THIAMINE**

UF *vitamin b-1*  
\*BT1 amines  
\*BT1 hydroxy compounds  
\*BT1 pyrimidines  
\*BT1 thiazoles  
\*BT1 vitamin b group

**THIAZOLES**

Compounds that contain a five-membered heterocyclic ring containing one sulfur and one nitrogen atom.  
UF *thiazolidines*  
\*BT1 azoles  
\*BT1 organic sulfur compounds  
NT1 benzothiazoles  
NT1 saccharin  
NT1 thiamine

**thiazolidines**

INIS: 1984-04-04; ETDE: 2002-06-13  
USE thiazoles

**THICKNESS**

2000-04-10  
Index only if essential.  
BT1 dimensions  
RT distance  
RT half-thickness  
RT radiation length  
RT shielding  
RT size

**THICKNESS GAGES**

BT1 measuring instruments  
RT radiometric gages

**thielavia**

INIS: 2000-04-12; ETDE: 1981-01-09  
*Thermophilic fungus capable of degrading cellulose to glucose.*  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE eumycota

**THIN FILM STORAGE DEVICES**

BT1 memory devices

**THIN FILMS**

INIS: 1983-12-01; ETDE: 1982-11-08  
*Films a few molecules thick deposited on a substrate.*  
UF *ebd films*  
UF *energy beam deposition films*  
BT1 films  
RT coatings  
RT deposition  
RT substrates

**THIN-LAYER CHROMATOGRAPHY**

\*BT1 chromatography

**thio compounds**

USE organic sulfur compounds

**thioalcohols**

USE thiols

**THIOBACILLUS FERROXIDANS**

\*BT1 bacillus  
\*BT1 sulfur-oxidizing bacteria  
RT leaching  
RT oxidation  
RT uranium ores

**THIOBACILLUS OXIDANS**

\*BT1 bacillus  
\*BT1 sulfur-oxidizing bacteria  
RT desulfurization  
RT leaching  
RT ore processing  
RT oxidation

**thiocarbamides**

USE thioureas

**THIOCTIC ACID**

UF *lipoic acid (alpha)*  
\*BT1 disulfides  
\*BT1 heterocyclic acids  
\*BT1 lipotropic factors

**THIOCYANATES**

1995-01-11  
UF *rhodanates*  
UF *rhodanides*  
UF *sulfocyanides*  
UF *thiocyanides*  
\*BT1 antithyroid drugs  
\*BT1 carbonic acid derivatives  
\*BT1 organic sulfur compounds  
NT1 ammonium thiocyanates  
RT isothiocyanates  
RT thiocyanic acid

**THIOCYANIC ACID**

RT thiocyanates

**thiocyanides**

USE thiocyanates

**thioethers**

1995-11-22  
USE organic sulfur compounds

**thioglycolicaminonaphthalide**

USE thionalide

**THIOIC ACIDS**

\*BT1 organic acids

\*BT1 organic sulfur compounds  
RT cystaphos

**THIOLS**

UF *mercaptans*  
UF *sulphydryl compounds*  
UF *thioalcohols*  
\*BT1 organic sulfur compounds  
NT1 cysteamine  
NT1 cysteine  
NT1 dithiols  
NT2 dimercaprol  
NT2 unithiol  
NT1 malathion  
NT1 mercaptoethylguanidine  
NT1 mercaptopurine  
NT1 mpg  
NT1 penicillamine  
NT1 thionalide  
NT1 thiouracil

**THIONALIDE**

UF *thioglycolicaminonaphthalide*  
\*BT1 amides  
BT1 reagents  
\*BT1 thiols  
RT glycolic acid

**THIONAPHTHENES**

UF *benzothiophenes*  
\*BT1 heterocyclic compounds  
\*BT1 organic sulfur compounds  
RT polycyclic sulfur heterocycles

**THIONATES**

ETDE: 1976-11-17  
\*BT1 organic sulfur compounds

**THIONINE**

\*BT1 amines  
\*BT1 heterocyclic compounds  
\*BT1 organic nitrogen compounds  
\*BT1 organic sulfur compounds  
RT phenothiazines

**THONYL CHLORIDES**

INIS: 2000-04-12; ETDE: 1985-06-04  
\*BT1 chlorides  
\*BT1 organic sulfur compounds

**thiopental**

1996-10-23  
(Until October 1996 this was a valid descriptor.)  
USE barbiturates  
USE organic sulfur compounds

**THIOPHENE**

\*BT1 heterocyclic compounds  
\*BT1 organic sulfur compounds  
RT polycyclic sulfur heterocycles  
RT tta

**thiophenes**

INIS: 2000-04-12; ETDE: 1983-11-23  
USE polycyclic sulfur heterocycles

**THIOPHENOLS**

\*BT1 organic sulfur compounds

**thiophosgene**

INIS: 2000-04-12; ETDE: 1981-06-13  
(Prior to April 1994, this was a valid ETDE descriptor.)  
USE organic chlorine compounds  
USE organic sulfur compounds

**THIOPHOSPHORIC ACID ESTERS**

\*BT1 esters  
NT1 cystaphos  
NT1 gammaphos  
NT1 parathion  
RT organic phosphorus compounds

*RT* organic sulfur compounds

## THIOSORBIC PROCESS

*INIS: 2000-04-12; ETDE: 1977-08-24*

*Sulfur dioxide converts magnesium sulfite to bisulfite in the scrubber, which is regenerated to soluble magnesium sulfite and precipitated calcium sulfite.*

\*BT1 desulfurization  
*RT* scrubbers  
*RT* waste processing

## THIOSULFATES

*RT* sulfates

## THIOURACIL

\*BT1 antimetabolites  
\*BT1 antithyroid drugs  
\*BT1 thiols  
\*BT1 uracils

## THIOUREA

\*BT1 antithyroid drugs  
\*BT1 thioureas

## THIOUREAS

*UF* thiocarbamides  
\*BT1 carbonic acid derivatives  
\*BT1 organic sulfur compounds  
NT1 beta-aminoethyl isothiourea  
NT1 thiourea  
*RT* amides

## third-harmonic generation

*INIS: 2000-04-12; ETDE: 1986-01-14*  
USE harmonic generation

## third party liability convention, brussels

*INIS: 1993-11-10; ETDE: 2002-06-13*  
USE bcstpc

## third party liability convention, paris

*INIS: 1993-11-10; ETDE: 2001-01-23*  
USE pctopl

## THIRD-PARTY USE

2004-09-17  
BT1 uses  
*RT* agreements  
*RT* contracts  
*RT* leasing

## THIRD SOUND

*RT* sound waves  
*RT* superfluidity

## THIRRING MODEL

*RT* merons  
*RT* quantum field theory

## THIXOTROPY

*INIS: 1992-07-21; ETDE: 1976-07-07*  
*Property of certain gels which liquefy when subjected to vibratory forces.*

*RT* gels  
*RT* plasticity  
*RT* rheology  
*RT* stability  
*RT* viscosity

## THIYL RADICALS

*For RS- radicals where R is organic component.*

BT1 radicals

## thomas-fermi-dirac model

USE thomas-fermi model

## THOMAS-FERMI MODEL

1999-03-17  
*UF* fermi-thomas model  
*UF* thomas-fermi-dirac model

\*BT1 atomic models

*RT* nuclear models

## thomas jefferson national accelerator facility

*INIS: 1999-09-23; ETDE: 1997-03-28*  
USE cebaf accelerator

## thomason collectors

*INIS: 2000-04-12; ETDE: 1978-09-11*  
USE trickle-type collectors

## THOMSON SCATTERING

\*BT1 inelastic scattering

## THOR REACTOR

*Hsin-Chu, Taiwan.*  
*UF* topr reactor  
\*BT1 enriched uranium reactors  
\*BT1 intermediate reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 training reactors

## thoracic duct

USE lymph vessels

## thorax

USE chest

## THOREX PROCESS

\*BT1 reprocessing  
*RT* solvent extraction

## THORIANITE

\*BT1 oxide minerals  
\*BT1 thorium minerals  
\*BT1 uranium minerals  
*RT* black sands  
*RT* thorium oxides  
*RT* uranium oxides

## THORIN

BT1 arsenic compounds  
\*BT1 diazo compounds  
\*BT1 naphthols  
BT1 reagents  
\*BT1 sulfonic acids

## THORITE

\*BT1 silicate minerals  
\*BT1 thorium minerals  
NT1 jiningite  
*RT* black sands  
*RT* thorium silicates

## THORIUM

\*BT1 actinides  
NT1 thorium-alpha  
NT1 thorium-beta  
*RT* natural radioactivity

## THORIUM 208

2008-01-25  
\*BT1 actinide nuclei  
\*BT1 even-even nuclei  
\*BT1 thorium isotopes

## THORIUM 209

2008-01-25  
\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 thorium isotopes

## THORIUM 210

2008-01-25  
\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 milliseconds living radioisotopes

\*BT1 thorium isotopes

## THORIUM 211

2008-01-25  
\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 thorium isotopes

## THORIUM 212

*INIS: 1979-09-18; ETDE: 1979-10-23*  
\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 thorium isotopes

## THORIUM 213

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 thorium isotopes

## THORIUM 214

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 thorium isotopes

## THORIUM 215

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 thorium isotopes

## THORIUM 216

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 thorium isotopes

## THORIUM 217

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 thorium isotopes

## THORIUM 218

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 nanoseconds living radioisotopes  
\*BT1 thorium isotopes

## THORIUM 219

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 thorium isotopes

## THORIUM 220

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 thorium isotopes

## THORIUM 221

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 thorium isotopes

## THORIUM 222

\*BT1 actinide nuclei

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 223**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 seconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 224**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 225**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 226**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 227**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 thorium isotopes

**THORIUM 228**

- UF radiothorium*
- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 thorium isotopes
- \*BT1 years living radioisotopes

**THORIUM 228 TARGET**

*INIS: 1986-10-29; ETDE: 1984-09-21*  
BT1 targets

**THORIUM 229**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 thorium isotopes
- \*BT1 years living radioisotopes

**THORIUM 229 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**THORIUM 230**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 neon 24 decay radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 thorium isotopes
- \*BT1 years living radioisotopes

**THORIUM 230 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**THORIUM 231**

- UF uranium x 2*
- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes

- \*BT1 even-odd nuclei
- \*BT1 thorium isotopes

**THORIUM 231 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
BT1 targets

**THORIUM 232**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 thorium isotopes
- \*BT1 years living radioisotopes
- RT thorium cycle*

**THORIUM 232 REACTIONS**

*INIS: 1987-08-27; ETDE: 1987-10-26*  
\*BT1 heavy ion reactions

**THORIUM 232 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**THORIUM 233**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 233 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
BT1 targets

**THORIUM 234**

- UF uranium x 1*
- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 thorium isotopes

**THORIUM 234 TARGET**

*INIS: 1992-09-23; ETDE: 1984-09-21*  
BT1 targets

**THORIUM 235**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 236**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 237**

- 1994-04-11*
- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 238**

- INIS: 1980-12-01; ETDE: 1981-01-09*
- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 thorium isotopes

**THORIUM 238 TARGET**

*INIS: 1992-09-23; ETDE: 1980-06-22*  
BT1 targets

**THORIUM 239 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**thorium a**

USE polonium 216

**THORIUM ADDITIONS**

*Alloys containing not more than 1% Th are listed here.*

\*BT1 thorium alloys

**THORIUM ALLOYS**

*Alloys containing more than 1% Th.*

- \*BT1 actinide alloys
- NT1 magnesium alloy-hk31a
- NT1 thorium additions
- NT1 thorium base alloys

**THORIUM-ALPHA**

\*BT1 thorium

**THORIUM ARSENIDES**

*INIS: 1980-12-02; ETDE: 1976-08-04*

- \*BT1 arsenides
- \*BT1 thorium compounds

**thorium b**

USE lead 212

**THORIUM BASE ALLOYS**

\*BT1 thorium alloys

**THORIUM-BETA**

\*BT1 thorium

**THORIUM BORIDES**

- \*BT1 borides
- \*BT1 thorium compounds

**THORIUM BROMIDES**

- \*BT1 bromides
- \*BT1 thorium compounds

**thorium c**

USE bismuth 212

**thorium c/**

USE polonium 212

**thorium c//**

USE thallium 208

**THORIUM CARBIDES**

- \*BT1 carbides
- \*BT1 thorium compounds

**THORIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 thorium compounds

**THORIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 thorium compounds

**THORIUM COMPLEXES**

\*BT1 actinide complexes

**THORIUM COMPOUNDS**

*1996-11-13*

- BT1 actinide compounds
- NT1 thorium arsenides
- NT1 thorium borides
- NT1 thorium bromides
- NT1 thorium carbides
- NT1 thorium carbonates
- NT1 thorium chlorides
- NT1 thorium fluorides
- NT1 thorium hydrides
- NT1 thorium hydroxides
- NT1 thorium iodides
- NT1 thorium nitrates
- NT1 thorium nitrides
- NT1 thorium oxides
- NT2 thorotrast
- NT1 thorium perchlorates
- NT1 thorium phosphates
- NT1 thorium phosphides

NT1 thorium selenides  
 NT1 thorium silicates  
 NT1 thorium silicides  
 NT1 thorium sulfates  
 NT1 thorium sulfides  
 NT1 thorium tellurides  
 NT1 thorium tungstates

**THORIUM CYCLE**

INIS: 1978-02-23; ETDE: 1977-09-19  
*Use of thorium as the fertile material in reactor fuels.*

BT1 fuel cycle  
 RT nuclear fuels  
 RT thorium 232

**thorium d**

USE lead 208

**THORIUM DEPOSITS**

INIS: 1986-05-26; ETDE: 1986-11-18  
 BT1 geologic deposits  
 RT thorium ores

**THORIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 thorium compounds

**thorium-hochtemperatur prototype reactor**

1993-11-10  
 USE thtr-300 reactor

**THORIUM HYDRIDES**

\*BT1 hydrides  
 \*BT1 thorium compounds

**THORIUM HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 thorium compounds

**THORIUM IODIDES**

\*BT1 iodides  
 \*BT1 thorium compounds

**THORIUM IONS**

\*BT1 ions

**THORIUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 thorium 208  
 NT1 thorium 209  
 NT1 thorium 210  
 NT1 thorium 211  
 NT1 thorium 212  
 NT1 thorium 213  
 NT1 thorium 214  
 NT1 thorium 215  
 NT1 thorium 216  
 NT1 thorium 217  
 NT1 thorium 218  
 NT1 thorium 219  
 NT1 thorium 220  
 NT1 thorium 221  
 NT1 thorium 222  
 NT1 thorium 223  
 NT1 thorium 224  
 NT1 thorium 225  
 NT1 thorium 226  
 NT1 thorium 227  
 NT1 thorium 228  
 NT1 thorium 229  
 NT1 thorium 230  
 NT1 thorium 231  
 NT1 thorium 232  
 NT1 thorium 233  
 NT1 thorium 234  
 NT1 thorium 235  
 NT1 thorium 236  
 NT1 thorium 237  
 NT1 thorium 238

**THORIUM MINERALS**

1996-11-13

UF aeschynite  
 UF cerianite  
 UF huttonite  
 UF steenstrupine  
 UF thorogummite  
 UF uranothorianite  
 UF yttrialite  
 \*BT1 radioactive minerals  
 NT1 allanite  
 NT1 bastnaesite  
 NT1 brannerite  
 NT1 ekanite  
 NT1 freyelite  
 NT1 hydrothorite  
 NT1 lodochnikite  
 NT1 lyndochite  
 NT1 mackintoshite  
 NT1 maitlandite  
 NT1 monazites  
 NT1 naegite  
 NT1 thorianite  
 NT1 thorite  
 NT2 jiningite  
 NT1 thucholite  
 NT1 uranothorite  
 RT thorium oxides  
 RT thorium phosphates  
 RT thorium silicates

**THORIUM NITRATES**

\*BT1 nitrates  
 \*BT1 thorium compounds

**THORIUM NITRIDES**

\*BT1 nitrides  
 \*BT1 thorium compounds

**THORIUM ORES**

BT1 ores  
 RT thorium deposits  
 RT thorium reserves

**THORIUM OXIDES**

1996-11-13

\*BT1 oxides  
 \*BT1 thorium compounds  
 NT1 thorotrast  
 RT bastnaesite  
 RT brannerite  
 RT lodochnikite  
 RT lyndochite  
 RT naegite  
 RT oxide minerals  
 RT td-nickel  
 RT td-nickel chromium  
 RT thorianite  
 RT thorium minerals

**THORIUM PERCHLORATES**

1997-01-28

(From November 1996 to November 2007

THORIUM COMPOUNDS + PERCHLORATES was used for this concept.)

\*BT1 perchlorates  
 \*BT1 thorium compounds

**THORIUM PHOSPHATES**

\*BT1 phosphates  
 \*BT1 thorium compounds  
 RT monazites  
 RT thorium minerals

**THORIUM PHOSPHIDES**

\*BT1 phosphides  
 \*BT1 thorium compounds

**THORIUM REACTORS**

BT1 reactors  
 NT1 avr reactor

NT1 borax-4 reactor  
 NT1 dragon reactor  
 NT1 err reactor  
 NT1 sre reactor  
 NT1 thtr-300 reactor  
 RT iea-zpr reactor  
 RT zenith reactor

**THORIUM RESERVES**

INIS: 1986-05-26; ETDE: 1976-04-19

\*BT1 reserves  
 RT thorium ores

**THORIUM SELENIDES**

1975-10-23

\*BT1 selenides  
 \*BT1 thorium compounds

**THORIUM SILICATES**

1996-11-13

\*BT1 silicates  
 \*BT1 thorium compounds  
 RT allanite  
 RT ekanite  
 RT freyelite  
 RT hydrothorite  
 RT mackintoshite  
 RT maitlandite  
 RT silicate minerals  
 RT thorite  
 RT thorium minerals  
 RT uranothorite

**THORIUM SILICIDES**

INIS: 1977-07-05; ETDE: 1976-03-11

\*BT1 silicides  
 \*BT1 thorium compounds

**THORIUM SULFATES**

\*BT1 sulfates  
 \*BT1 thorium compounds

**THORIUM SULFIDES**

\*BT1 sulfides  
 \*BT1 thorium compounds

**THORIUM TELLURIDES**

INIS: 1976-02-24; ETDE: 1976-04-19

\*BT1 tellurides  
 \*BT1 thorium compounds

**THORIUM TUNGSTATES**

1997-01-28

(From October 1996 to February 2008

THORIUM COMPOUNDS + TUNGSTATES was used for this concept.)

\*BT1 thorium compounds  
 \*BT1 tungstates

**thorium x**

USE radium 224

**thorogummite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE silicate minerals  
 USE thorium minerals

**thoron**

USE radon 220

**THOROTRAST**

BT1 contrast media  
 \*BT1 radiocolloids  
 \*BT1 thorium oxides



**thr reactor**

INIS: 1991-09-17; ETDE: 1991-11-22  
 Test Heating Reactor, Tsinghua University,  
 Beijing, China.  
 (Prior to January 2003 this was a valid  
 descriptor.)

USE nhr-5 reactor

**THREADED JOINTS**

INIS: 1988-11-16; ETDE: 1982-10-05  
 BT1 joints

**THREE-BODY PROBLEM**

BT1 many-body problem  
 RT efimov effect  
 RT faddeev equations

**THREE-DIMENSIONAL CALCULATIONS**

UF 3-dimensional calculations  
 UF calculations (3-dimensional)  
 RT adjoint difference method  
 RT general circulation models  
 RT many-dimensional calculations  
 RT mathematics

**THREE MILE ISLAND-1 REACTOR**

AmerGen Energy Co., LLC, Middletown,  
 Pennsylvania, USA.

\*BT1 pwr type reactors

**THREE MILE ISLAND-2 REACTOR**

GPU Nuclear Corp., Middletown,  
 Pennsylvania, USA. Permanently shut down in  
 1979 due to accident.

\*BT1 pwr type reactors

**THREE-NUCLEON TRANSFER REACTIONS**

\*BT1 multi-nucleon transfer reactions

**THREONINE**

\*BT1 amino acids  
 \*BT1 hydroxy acids

**THRESHOLD CURRENT**

INIS: 1999-03-08; ETDE: 1981-10-24  
 The minimum current necessary to initiate the  
 desired response.

\*BT1 electric currents  
 RT current limiters

**THRESHOLD DETECTORS**

\*BT1 neutron detectors  
 RT activation detectors  
 RT fission chambers  
 RT fission foil detectors

**THRESHOLD DOSE**

\*BT1 radiation doses

**THRESHOLD ENERGY**

BT1 energy  
 RT interactions  
 RT nuclear reactions  
 RT scattering

**THRESHOLD RIGIDITY**

UF geomagnetic cut-off rigidity  
 RT cosmic radiation  
 RT geomagnetic field

**throat**

USE pharynx

**THROMBIN**

Code number 3.4.21.5.

\*BT1 blood coagulation factors  
 \*BT1 serine proteinases  
 RT thrombosis

**thrombocytes**

USE blood platelets

**THROMBOPLASTIN**

\*BT1 blood coagulation factors

**THROMBOPOIESIS**

BT1 blood formation  
 RT blood platelets

**THROMBOSIS**

\*BT1 cardiovascular diseases  
 \*BT1 vascular diseases  
 RT blood coagulation  
 RT blood vessels  
 RT fibrinolysin  
 RT streptococcal proteinase  
 RT thrombin

**THROUGHFALL**

INIS: 1992-08-17; ETDE: 1984-12-10  
 Rain water that passes through a vegetative  
 canopy and reaches the soil.

\*BT1 rain water  
 RT acid rain  
 RT atmospheric precipitations  
 RT canopies  
 RT evaporation  
 RT forests  
 RT interception  
 RT plants  
 RT runoff

**THRUSTERS**

1996-07-16

NT1 ion thrusters  
 RT missiles  
 RT positioning  
 RT propulsion  
 RT propulsion systems  
 RT ships  
 RT space vehicles

**THTR-300 REACTOR**

1995-05-02

Uentrop, Hamm, North Rhine-Westphalia,  
 Federal Republic of Germany.

UF schmehausen reactor  
 UF schmehausen thr reactor  
 UF thorium-hochtemperatur prototype  
 reactor

\*BT1 enriched uranium reactors  
 \*BT1 helium cooled reactors  
 \*BT1 htgr type reactors  
 \*BT1 pebble bed reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors  
 \*BT1 thorium reactors

**THUCHOLITE**

1996-06-26

\*BT1 bitumens  
 \*BT1 thorium minerals  
 \*BT1 uranium minerals  
 RT rare earths  
 RT uraninites

**THULIUM**

\*BT1 rare earths

**THULIUM 144**

2005-11-22

\*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 thulium isotopes

**THULIUM 145**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 microseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 thulium isotopes

**THULIUM 146**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 thulium isotopes

**THULIUM 147**

1982-06-09

\*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 thulium isotopes

**THULIUM 148**

1982-06-09

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 thulium isotopes

**THULIUM 149**

INIS: 1985-04-22; ETDE: 1985-05-07

\*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 thulium isotopes

**THULIUM 150**

1981-09-17

\*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 thulium isotopes

**THULIUM 151**

INIS: 1982-08-27; ETDE: 1976-11-17

\*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 thulium isotopes

**THULIUM 152**

INIS: 1980-12-01; ETDE: 1980-09-05

\*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 thulium isotopes

**THULIUM 153**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 thulium isotopes

**THULIUM 154**

INIS: 1977-02-08; ETDE: 1977-04-13

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 thulium isotopes

**THULIUM 155**

1976-01-28

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 thulium isotopes

**THULIUM 156**

1976-03-02

\*BT1 alpha decay radioisotopes

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM 157***1977-01-25*

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 158**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 159**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 160**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 161**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 162**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM 163**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 164**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 165**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes

- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 166**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 167**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 168**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 169**

- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 thulium isotopes

**THULIUM 169 TARGET***ETDE: 1976-07-09*

- BT1 targets

**THULIUM 170**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 171**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes
- \*BT1 years living radioisotopes

**THULIUM 171 TARGET***INIS: 1992-09-23; ETDE: 1982-01-21*

- BT1 targets

**THULIUM 172**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 173**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 174**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 175**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

- \*BT1 thulium isotopes

**THULIUM 176**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 177***INIS: 1984-06-21; ETDE: 1984-07-10*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 178***2008-01-25*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM 179***2008-01-25*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM ADDITIONS***Alloys containing not more than 1% Tm are listed here.*

- \*BT1 rare earth additions
- \*BT1 thulium alloys

**THULIUM ALLOYS***Alloys containing more than 1% Tm.*

- \*BT1 rare earth alloys
- NT1 thulium additions
- NT1 thulium base alloys

**THULIUM ARSENIDES***INIS: 1996-07-15; ETDE: 1975-10-28**(From June 1996 to February 2008**THULIUM COMPOUNDS + ARSENIDES was used for this concept.)*

- \*BT1 arsenides
- \*BT1 thulium compounds

**THULIUM BASE ALLOYS**

- \*BT1 thulium alloys

**THULIUM BORIDES**

- \*BT1 borides
- \*BT1 thulium compounds

**THULIUM BROMIDES**

- \*BT1 bromides
- \*BT1 thulium compounds

**THULIUM CARBIDES**

- \*BT1 carbides
- \*BT1 thulium compounds

**THULIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 thulium compounds

**THULIUM COMPLEXES**

- \*BT1 rare earth complexes

**THULIUM COMPOUNDS***1997-06-19*

- BT1 rare earth compounds
- NT1 thulium arsenides
- NT1 thulium borides
- NT1 thulium bromides
- NT1 thulium carbides
- NT1 thulium chlorides
- NT1 thulium fluorides

NT1 thulium hydrides  
 NT1 thulium hydroxides  
 NT1 thulium iodides  
 NT1 thulium nitrates  
 NT1 thulium nitrides  
 NT1 thulium oxides  
 NT1 thulium perchlorates  
 NT1 thulium phosphates  
 NT1 thulium phosphides  
 NT1 thulium selenides  
 NT1 thulium silicates  
 NT1 thulium silicides  
 NT1 thulium sulfates  
 NT1 thulium sulfides  
 NT1 thulium tellurides

**THULIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 thulium compounds

**THULIUM HYDRIDES**

\*BT1 hydrides  
 \*BT1 thulium compounds

**THULIUM HYDROXIDES**

2000-04-12

\*BT1 hydroxides  
 \*BT1 thulium compounds

**THULIUM IODIDES**

\*BT1 iodides  
 \*BT1 thulium compounds

**THULIUM IONS**

\*BT1 ions

**THULIUM ISOTOPES**

BT1 isotopes  
 NT1 thulium 144  
 NT1 thulium 145  
 NT1 thulium 146  
 NT1 thulium 147  
 NT1 thulium 148  
 NT1 thulium 149  
 NT1 thulium 150  
 NT1 thulium 151  
 NT1 thulium 152  
 NT1 thulium 153  
 NT1 thulium 154  
 NT1 thulium 155  
 NT1 thulium 156  
 NT1 thulium 157  
 NT1 thulium 158  
 NT1 thulium 159  
 NT1 thulium 160  
 NT1 thulium 161  
 NT1 thulium 162  
 NT1 thulium 163  
 NT1 thulium 164  
 NT1 thulium 165  
 NT1 thulium 166  
 NT1 thulium 167  
 NT1 thulium 168  
 NT1 thulium 169  
 NT1 thulium 170  
 NT1 thulium 171  
 NT1 thulium 172  
 NT1 thulium 173  
 NT1 thulium 174  
 NT1 thulium 175  
 NT1 thulium 176  
 NT1 thulium 177  
 NT1 thulium 178  
 NT1 thulium 179

**THULIUM NITRATES**

\*BT1 nitrates  
 \*BT1 thulium compounds

**THULIUM NITRIDES**

\*BT1 nitrides  
 \*BT1 thulium compounds

**THULIUM OXIDES**

\*BT1 oxides  
 \*BT1 thulium compounds

**THULIUM PERCHLORATES**

INIS: 2000-04-12; ETDE: 1975-10-28

\*BT1 perchlorates  
 \*BT1 thulium compounds

**THULIUM PHOSPHATES**

INIS: 1975-10-23; ETDE: 1975-12-16

\*BT1 phosphates  
 \*BT1 thulium compounds

**THULIUM PHOSPHIDES**

INIS: 1996-07-23; ETDE: 1975-11-28

(From July 1996 to November 2007  
 THULIUM COMPOUNDS + PHOSPHIDES  
 was used for this concept.)

\*BT1 phosphides  
 \*BT1 thulium compounds

**THULIUM SELENIDES**

\*BT1 selenides  
 \*BT1 thulium compounds

**THULIUM SILICATES**

INIS: 2000-04-12; ETDE: 1977-11-09

\*BT1 silicates  
 \*BT1 thulium compounds

**THULIUM SILICIDES**

INIS: 1978-07-31; ETDE: 1976-01-23

\*BT1 silicides  
 \*BT1 thulium compounds

**THULIUM SULFATES**

\*BT1 sulfates  
 \*BT1 thulium compounds

**THULIUM SULFIDES**

\*BT1 sulfides  
 \*BT1 thulium compounds

**THULIUM TELLURIDES**

\*BT1 tellurides  
 \*BT1 thulium compounds

**THUNDERBIRD PROJECT**

INIS: 1983-09-05; ETDE: 1975-11-26

*In-situ gasification of coal following nuclear  
 fragmentation of rock seams.*

UF project thunderbird  
 RT coal gasification  
 RT nuclear explosions  
 RT underground explosions

**THYLAKOID MEMBRANE****PROTEINS**

INIS: 1993-08-05; ETDE: 1987-07-31

\*BT1 membrane proteins  
 NT1 phycobiliproteins  
 NT2 phycocyanin  
 RT photosynthesis  
 RT photosynthetic membranes

**thylox process**

2000-04-12

*Wet scrubbing process for the removal of  
 hydrogen sulfide using ammonium  
 thioarsenate.*

(Prior to March 1994, this was a valid ETDE  
 descriptor.)

USE desulfurization

**thyme camphor**

USE thymol

**THYMECTOMY**

\*BT1 surgery  
 RT immunity  
 RT thymus

**thymic acid**

USE thymol

**THYMIDINE**

\*BT1 nucleosides  
 \*BT1 pyrimidines  
 RT thymine

**THYMIDYLIC ACID**

\*BT1 nucleotides  
 RT thymine

**THYMINE**

1996-07-08

UF 5-methyl uracil

UF 5-methyluracil

\*BT1 uracils  
 RT thymidine  
 RT thymidylic acid

**THYMOCYTES**

\*BT1 somatic cells  
 RT thymus

**THYMOL**

UF hydroxy-para-cymene

UF isopropyl cresol

UF thyme camphor

UF thymic acid

\*BT1 phenols

RT cymene

**thymonucleic acid**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE nucleic acids

**THYMUS**

BT1 lymphatic system  
 \*BT1 organs  
 RT calcitonin  
 RT chest  
 RT immune system diseases  
 RT lymphocytes  
 RT mediastinum  
 RT thymectomy  
 RT thymocytes  
 RT thymus cells

**THYMUS CELLS**

\*BT1 somatic cells  
 RT thymus

**THYRATRONS**

\*BT1 gas discharge tubes  
 RT rectifier tubes  
 RT switching circuits

**THYRISTORS**

BT1 semiconductor devices  
 RT rectifiers  
 RT switching circuits

**THYROCALCITONIN**

\*BT1 thyroid hormones  
 RT calcium

**THYROGLOBULIN**

\*BT1 globulins  
 RT iodine  
 RT thyroid  
 RT thyroid hormones  
 RT thyroxine

**THYROID**

\*BT1 endocrine glands  
 RT antithyroid drugs  
 RT blood-plasma clearance  
 RT calcitonin  
 RT goiter  
 RT iodine  
 RT neck  
 RT parathyroid glands

RT thyroglobulin  
 RT thyroid cells  
 RT thyroid hormones  
 RT thyroidectomy  
 RT thyroiditis

**thyroid antagonists**

USE antithyroid drugs

**THYROID CELLS**

INIS: 1981-07-08; ETDE: 1980-10-27

\*BT1 somatic cells  
 RT thyroid

**THYROID HORMONES**

\*BT1 peptide hormones  
 NT1 diiodothyronine  
 NT1 thyrocalcitonin  
 NT1 thyroxine  
 NT1 triiodothyronine  
 RT hyperthyroidism  
 RT hypothyroidism  
 RT iodine  
 RT metabolism  
 RT pbi  
 RT thyroglobulin  
 RT thyroid  
 RT thyronine  
 RT tsh

**thyroid stimulating hormone**

USE tsh

**THYROIDECTOMY**

\*BT1 surgery  
 RT thyroid

**THYROIDITIS**

\*BT1 endocrine diseases  
 RT thyroid

**THYRONINE**

UF *desiodothyroxine*  
 \*BT1 amino acids  
 \*BT1 hydroxy acids  
 \*BT1 peptide hormones  
 RT diiodothyronine  
 RT ethers  
 RT thyroid hormones  
 RT thyroxine  
 RT triiodothyronine

**thyrotoxicosis**

USE hyperthyroidism

**thyrotropin-releasing hormone**

USE trh

**THYROXINE**

UF *t4 hormone*  
 \*BT1 amino acids  
 \*BT1 organic iodine compounds  
 \*BT1 thyroid hormones  
 RT ethers  
 RT thyroglobulin  
 RT thyronine

**thyssen-galocsy process**

2000-04-12

(Prior to July 1993, this was a valid ETDE descriptor.)

SEE coal gasification

**THZ RANGE**

2003-03-21

UF *terahertz frequency range*

BT1 frequency range  
 NT1 thz range 01-100  
 NT1 thz range 100-1000

**THZ RANGE 01-100**

2003-03-21

\*BT1 thz range

**THZ RANGE 100-1000**

2003-03-21

\*BT1 thz range

**TIANWAN-1 REACTOR**

INIS: 2001-03-15; ETDE: 2001-02-05

*Tianwan, Jiangsu, China.*

\*BT1 wwer type reactors

**TIBER-X TOKAMAK**

INIS: 1987-09-23; ETDE: 1987-04-08

*Compact, 3-m radius, steady-state tokamak with ECH/IH current drive and profile control.*

\*BT1 tokamak devices  
 RT thermonuclear ignition

**TIBET**

2000-04-12

\*BT1 china

**TIBIA**

\*BT1 skeleton  
 RT legs

**TIBR REACTOR**

INIS: 1986-12-09; ETDE: 1987-03-09

\*BT1 enriched uranium reactors  
 \*BT1 fast reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors  
 \*BT1 transportable reactors

**TICKS**

\*BT1 arachnids

**tid**

USE travelling ionospheric disturbance

**TIDAL POWER**

1982-10-29

\*BT1 renewable energy sources  
 RT tidal power plants  
 RT tide  
 RT water current power generators

**TIDAL POWER PLANTS**

1997-06-19

BT1 power plants  
 NT1 kislogubsk power plant  
 NT1 passamaquoddy power plant  
 NT1 rance power plant  
 RT tidal power

**tidal waves**

USE tsunamis

**TIDE**

1985-07-19

(Prior to August 1985 TIDES was a valid INIS descriptor.)

RT seas  
 RT tidal power  
 RT water currents  
 RT water waves

**tight sands**

INIS: 2000-04-12; ETDE: 1980-12-08

USE permeability

USE sandstones

**tigium oil**

1996-10-22

(Prior to March 1997 CROTON OIL was used for this concept in ETDE.)

USE triglycerides  
 USE vegetable oils

**TIGRIS RIVER**

INIS: 1988-05-13; ETDE: 1988-06-24

\*BT1 rivers  
 RT iraq  
 RT turkey

**tihange-1 reactor**

INIS: 1982-04-14; ETDE: 1982-05-07

USE tihange reactor

**TIHANGE-2 REACTOR**

INIS: 1982-04-14; ETDE: 1982-05-07

\*BT1 pwr type reactors

**TIHANGE-3 REACTOR**

INIS: 1982-04-14; ETDE: 1982-05-07

\*BT1 pwr type reactors

**TIHANGE REACTOR**

*Tihange, Liege, Belgium.*

UF *tihange-1 reactor*

\*BT1 pwr type reactors

**tikonol**

INIS: 1997-01-28; ETDE: 1975-12-16

(Until October 1996 this was a valid descriptor.)

USE iron base alloys

**til oil**

USE sesame oil

**TILT MECHANISMS**

INIS: 2000-04-12; ETDE: 1981-07-18

RT inclination  
 RT orientation  
 RT solar tracking  
 RT wind turbines

**tilting (neutron flux)**

USE neutron flux tilting

**TILTING INSTABILITY**

INIS: 1984-02-22; ETDE: 1984-03-06

\*BT1 plasma macroinstabilities

**TIME DELAY**

INIS: 1992-01-31; ETDE: 1983-03-23

UF *timeliness*  
 RT administrative procedures  
 RT contracts  
 RT legal aspects  
 RT management  
 RT procurement  
 RT schedules  
 RT time measurement

**TIME DEPENDENCE**

RT blood-plasma clearance  
 RT confinement time  
 RT delayed radiation effects  
 RT differential pac  
 RT dose rates  
 RT early radiation effects  
 RT flow rate  
 RT heating rate  
 RT incubation  
 RT instability growth rates  
 RT mortality  
 RT quarantine  
 RT relaxation time  
 RT retention functions  
 RT survival time  
 RT temporal dose distributions

**TIME INTERVAL ANALYZERS**

BT1 measuring instruments  
 NT1 chronotrons  
 RT atomic clocks  
 RT time measurement

**TIME LIMITATIONS**

INIS: 1976-12-08; ETDE: 1994-08-10

*For time limitations on liability for damages.*

RT liabilities  
 RT liability limitations  
 RT nuclear liability

**TIME MEASUREMENT**

(From February 1976 till March 1997  
PENDULUMS was a valid ETDE descriptor.)

*SF* pendulums  
*RT* atomic clocks  
*RT* calendars  
*RT* coincidence circuits  
*RT* dead time  
*RT* measuring instruments  
*RT* pulse rise time  
*RT* time delay  
*RT* time interval analyzers  
*RT* timing circuits  
*RT* timing properties

**time-of-day pricing**

*INIS*: 2000-04-12; *ETDE*: 1979-05-03  
USE time-of-use pricing

**TIME-OF-FLIGHT MASS****SPECTROMETERS**

*INIS*: 1976-01-28; *ETDE*: 1988-09-21  
\*BT1 dynamic mass spectrometers  
\*BT1 time-of-flight spectrometers

**TIME-OF-FLIGHT METHOD**

*RT* charge plunger method  
*RT* time-of-flight spectrometers

**TIME-OF-FLIGHT SPECTROMETERS**

\*BT1 spectrometers  
NT1 time-of-flight mass spectrometers  
*RT* time-of-flight method

**time-of-season pricing**

*INIS*: 2000-04-12; *ETDE*: 1980-05-06  
USE seasonal variations  
USE time-of-use pricing

**TIME-OF-USE PRICING**

*INIS*: 2000-04-12; *ETDE*: 1980-05-06  
*Pricing of service during periods of the day or during different seasons of the year based on cost of supplying the service during the time of day or season.*

*UF* time-of-day pricing  
*UF* time-of-season pricing  
BT1 prices  
*RT* electric power  
*RT* load management  
*RT* off-peak power  
*RT* peak-load pricing  
*RT* seasonal variations

**TIME PROJECTION CHAMBERS**

*INIS*: 1988-08-02; *ETDE*: 1979-02-23  
(Prior to August, 1988, this concept was indexed by PROJECTION SPARK CHAMBERS.)

*UF* tpc  
\*BT1 drift chambers  
*RT* projection spark chambers

**TIME RESOLUTION**

*Minimum time interval between events to be detected.*

BT1 resolution  
BT1 timing properties  
*RT* pulse pileup

**time-reversal invariance**

USE t invariance

**TIME-SERIES ANALYSIS**

*INIS*: 1996-05-06; *ETDE*: 1978-02-14  
\*BT1 statistics  
*RT* decision making  
*RT* forecasting  
*RT* mathematical models

**TIME-TO-AMPLITUDE CONVERTERS**

\*BT1 pulse converters

**timeliness**

*INIS*: 2000-04-12; *ETDE*: 1983-03-23  
USE time delay

**TIMING CIRCUITS**

BT1 electronic circuits  
*RT* dead time  
*RT* discriminators  
*RT* sweep circuits  
*RT* time measurement  
*RT* timing properties

**TIMING PROPERTIES**

*Properties of a detector, circuit or other component related to time measurement, such as its pulse rise time or time resolution, etc.*

NT1 dead time  
NT1 pulse rise time  
NT1 time resolution  
*RT* pulse pileup  
*RT* time measurement  
*RT* timing circuits

**TIMKEN ALLOYS**

2000-04-12  
\*BT1 chromium-nickel steels  
\*BT1 cobalt alloys  
\*BT1 molybdenum alloys

**TIMOR SEA**

*INIS*: 2000-04-12; *ETDE*: 1995-10-03  
\*BT1 indian ocean  
*RT* australia  
*RT* indonesia

**TIN**

\*BT1 metals

**TIN 100**

*INIS*: 1985-09-06; *ETDE*: 1985-03-12  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 tin isotopes

**TIN 101**

*INIS*: 1992-09-23; *ETDE*: 1985-10-25  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 tin isotopes

**TIN 102**

*INIS*: 1997-02-07; *ETDE*: 1985-03-12  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 microseconds living radioisotopes  
\*BT1 seconds living radioisotopes  
\*BT1 tin isotopes

**TIN 103**

*INIS*: 1980-07-24; *ETDE*: 1980-08-12  
\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 tin isotopes

**TIN 104**

*INIS*: 1976-11-08; *ETDE*: 1976-09-15  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 tin isotopes

**TIN 105**

*INIS*: 1980-07-24; *ETDE*: 1980-08-12  
\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 tin isotopes

**TIN 106**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 tin isotopes

**TIN 107**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 tin isotopes

**TIN 108**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 tin isotopes

**TIN 109**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 tin isotopes

**TIN 110**

\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 tin isotopes

**TIN 110 TARGET**

*INIS*: 1980-07-24; *ETDE*: 1980-08-12  
BT1 targets

**TIN 111**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 tin isotopes

**TIN 112**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 tin isotopes

**TIN 112 REACTIONS**

*INIS*: 1991-10-22; *ETDE*: 1991-11-26  
\*BT1 heavy ion reactions

**TIN 112 TARGET**

*ETDE*: 1976-07-09  
BT1 targets

**TIN 113**

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 tin isotopes

*RT* radioisotope generators

**TIN 114**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 tin isotopes

**TIN 114 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TIN 115**

\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 tin isotopes

**TIN 115 TARGET**

*INIS: 1976-10-29; ETDE: 1976-12-16*  
BT1 targets

**TIN 116**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 tin isotopes

**TIN 116 REACTIONS**

*INIS: 1987-11-02; ETDE: 1987-12-23*  
\*BT1 heavy ion reactions

**TIN 116 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TIN 117**

\*BT1 days living radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 stable isotopes  
\*BT1 tin isotopes

**TIN 117 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TIN 118**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 tin isotopes

**TIN 118 REACTIONS**

*INIS: 1987-06-29; ETDE: 1987-07-09*  
\*BT1 heavy ion reactions

**TIN 118 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TIN 119**

\*BT1 days living radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 stable isotopes  
\*BT1 tin isotopes

**TIN 119 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TIN 120**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 tin isotopes

**TIN 120 BEAMS**

*INIS: 1984-05-24; ETDE: 1984-06-29*  
\*BT1 ion beams

**TIN 120 REACTIONS**

*INIS: 1978-07-03; ETDE: 1978-08-07*  
\*BT1 heavy ion reactions

**TIN 120 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TIN 121**

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 tin isotopes  
\*BT1 years living radioisotopes

**TIN 122**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 tin isotopes

**TIN 122 REACTIONS**

*INIS: 1980-09-12; ETDE: 1980-10-07*  
\*BT1 heavy ion reactions

**TIN 122 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TIN 123**

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 tin isotopes

**TIN 124**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 tin isotopes

**TIN 124 REACTIONS**

*INIS: 1980-12-01; ETDE: 1981-01-09*  
\*BT1 heavy ion reactions

**TIN 124 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TIN 125**

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 tin isotopes

**TIN 125 TARGET**

*INIS: 1992-09-23; ETDE: 1984-10-10*  
BT1 targets

**TIN 126**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 tin isotopes  
\*BT1 years living radioisotopes

**TIN 126 TARGET**

*INIS: 1980-04-02; ETDE: 1980-05-06*  
BT1 targets

**TIN 127**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes

\*BT1 tin isotopes

**TIN 128**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 seconds living radioisotopes  
\*BT1 tin isotopes

**TIN 129**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 tin isotopes

**TIN 130**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 tin isotopes

**TIN 131**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 seconds living radioisotopes  
\*BT1 tin isotopes

**TIN 132**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 tin isotopes

**TIN 133**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 tin isotopes

**TIN 134**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 tin isotopes

**TIN 135**

*2004-12-15*

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 tin isotopes

**TIN 136**

*2007-04-23*

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 tin isotopes

**TIN 137**

*2004-12-15*

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 tin isotopes

**TIN 99**

*2007-04-23*

\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 tin isotopes

**TIN ADDITIONS**

*Alloys containing not more than 1% Sn are listed here.*

- \*BT1 tin alloys
- NT1 zamak

**TIN ALLOYS**

*Alloys containing more than 1% Sn.*

- UF transage 175
- BT1 alloys
- NT1 alloy-bi50pb25cd12sn12
- NT2 wood metal
- NT1 alloy-zr98sn-2
- NT2 zircaloy 2
- NT1 alloy-zr98sn-4
- NT2 zircaloy 4
- NT1 bronze
- NT1 cerrobend alloys
- NT1 lichtenberg alloy
- NT1 newton-metal
- NT1 ounce metal
- NT1 rose-metal
- NT1 terne-metal
- NT1 tin additions
- NT2 zamak
- NT1 tin base alloys

**TIN ARSENIDES**

*INIS: 2000-04-12; ETDE: 1975-11-11*

- \*BT1 arsenides
- BT1 tin compounds

**TIN BASE ALLOYS**

- \*BT1 tin alloys

**TIN BORIDES**

*1996-07-15*

(From June 1996 to February 2008 TIN COMPOUNDS + BORIDES was used for this concept.)

- \*BT1 borides
- BT1 tin compounds

**TIN BROMIDES**

- \*BT1 bromides
- \*BT1 tin halides

**TIN CARBIDES**

*INIS: 2000-04-12; ETDE: 1975-12-16*

- \*BT1 carbides
- BT1 tin compounds

**TIN CHLORIDES**

- \*BT1 chlorides
- \*BT1 tin halides

**TIN COMPLEXES**

- BT1 complexes

**TIN COMPOUNDS**

*1997-06-19*

- NT1 stannates
- NT2 cadmium stannates
- NT1 tin arsenides
- NT1 tin borides
- NT1 tin carbides
- NT1 tin halides
- NT2 tin bromides
- NT2 tin chlorides
- NT2 tin fluorides
- NT2 tin iodides
- NT1 tin hydrides
- NT1 tin hydroxides
- NT1 tin nitrides
- NT1 tin oxides
- NT1 tin phosphates
- NT1 tin phosphides
- NT1 tin selenides

- NT1 tin sulfates
- NT1 tin sulfides
- NT1 tin tellurides
- NT1 tin tungstates

**TIN FLUORIDES**

- \*BT1 fluorides
- \*BT1 tin halides

**TIN HALIDES**

*INIS: 1991-09-16; ETDE: 1977-06-24*

- \*BT1 halides
- BT1 tin compounds
- NT1 tin bromides
- NT1 tin chlorides
- NT1 tin fluorides
- NT1 tin iodides

**TIN HYDRIDES**

- \*BT1 hydrides
- BT1 tin compounds

**TIN HYDROXIDES**

- \*BT1 hydroxides
- BT1 tin compounds

**TIN IODIDES**

- \*BT1 iodides
- \*BT1 tin halides

**TIN IONS**

- \*BT1 ions

**TIN ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 tin 100
- NT1 tin 101
- NT1 tin 102
- NT1 tin 103
- NT1 tin 104
- NT1 tin 105
- NT1 tin 106
- NT1 tin 107
- NT1 tin 108
- NT1 tin 109
- NT1 tin 110
- NT1 tin 111
- NT1 tin 112
- NT1 tin 113
- NT1 tin 114
- NT1 tin 115
- NT1 tin 116
- NT1 tin 117
- NT1 tin 118
- NT1 tin 119
- NT1 tin 120
- NT1 tin 121
- NT1 tin 122
- NT1 tin 123
- NT1 tin 124
- NT1 tin 125
- NT1 tin 126
- NT1 tin 127
- NT1 tin 128
- NT1 tin 129
- NT1 tin 130
- NT1 tin 131
- NT1 tin 132
- NT1 tin 133
- NT1 tin 134
- NT1 tin 135
- NT1 tin 136
- NT1 tin 137
- NT1 tin 99

**TIN NITRIDES**

*1976-06-23*

- \*BT1 nitrides
- BT1 tin compounds

**TIN ORES**

*INIS: 1978-08-30; ETDE: 1975-10-01*

- BT1 ores

**TIN OXIDES**

- \*BT1 oxides
- BT1 tin compounds
- RT stannates

**TIN PHOSPHATES**

- \*BT1 phosphates
- BT1 tin compounds

**TIN PHOSPHIDES**

*INIS: 1977-01-25; ETDE: 1975-11-11*

- \*BT1 phosphides
- BT1 tin compounds

**TIN SELENIDES**

*1976-07-16*

- \*BT1 selenides
- BT1 tin compounds

**TIN SULFATES**

- \*BT1 sulfates
- BT1 tin compounds

**TIN SULFIDES**

- \*BT1 sulfides
- BT1 tin compounds

**TIN TELLURIDES**

- \*BT1 tellurides
- BT1 tin compounds

**TIN TUNGSTATES**

*2000-04-12*

- BT1 tin compounds
- \*BT1 tungstates

**TINEA**

*INIS: 2000-04-12; ETDE: 1979-07-18*

- \*BT1 fungal diseases
- RT fungi

***tioga nitrogen removal process***

*INIS: 2000-04-12; ETDE: 1976-03-22*

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE nitrogen
- USE removal

**TIPVANE ROTORS**

*INIS: 2000-04-12; ETDE: 1978-09-13*

*Horizontal axis turbines with small wings attached at right angles to the rotor tips.*

- UF dynamic inducer rotors
- BT1 rotors
- RT horizontal axis turbines
- RT wind turbines

**TIRES**

*1992-03-16*

- RT vehicles
- RT wheels

**TIRON**

- \*BT1 polyphenols
- BT1 reagents
- \*BT1 sodium compounds
- \*BT1 sulfonic acids

**TISSUE CULTURES**

- UF cultures (tissue)
- UF organ cultures
- RT animal tissues
- RT cell cultures
- RT culture media
- RT in vitro

**TISSUE DISTRIBUTION**

*1985-12-11*

- BT1 distribution
- RT animal tissues

*RT* biological localization  
*RT* radionuclide kinetics

**tissue equivalent chambers**

USE bragg gray chambers

**TISSUE-EQUIVALENT DETECTORS**

\*BT1 radiation detectors  
*RT* dose equivalents

**TISSUE-EQUIVALENT MATERIALS**

BT1 materials  
*RT* animal tissues  
*RT* phantoms

**TISSUE EXTRACTS**

\*BT1 biological materials  
*RT* animal tissues  
*RT* cell constituents  
*RT* mitogens

**tissues**

1996-03-12

(Until March 1996 this was a valid term with its meaning restricted to ANIMAL TISSUES.)

SEE animal tissues  
 SEE plant tissues

**TITANATES**

1997-06-17

BT1 oxygen compounds  
 \*BT1 titanium compounds  
 NT1 cadmium titanates  
 NT1 lithium titanates  
 NT1 plzt  
 NT1 pzt  
 NT1 strontium titanates  
*RT* titanium oxides

**TITANITE**

*UF* *sphene*

\*BT1 silicate minerals  
*RT* titanium silicates

**TITANIUM**

\*BT1 transition elements  
 NT1 titanium-alpha  
 NT1 titanium-beta  
*RT* kroll process

**TITANIUM 38**

2008-01-28

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 titanium isotopes

**TITANIUM 39**

*INIS: 1988-11-16; ETDE: 1988-12-02*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 titanium isotopes

**TITANIUM 40**

*INIS: 1990-05-16; ETDE: 1990-06-01*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 41**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 42**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

\*BT1 titanium isotopes

**TITANIUM 43**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 44**

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 titanium isotopes  
 \*BT1 years living radioisotopes

**TITANIUM 44 TARGET**

*INIS: 1978-11-24; ETDE: 1978-09-11*

BT1 targets

**TITANIUM 45**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 titanium isotopes

**TITANIUM 45 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*

BT1 targets

**TITANIUM 46**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 titanium isotopes

**TITANIUM 46 REACTIONS**

*INIS: 1985-11-18; ETDE: 1981-06-13*

\*BT1 heavy ion reactions

**TITANIUM 46 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TITANIUM 47**

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 titanium isotopes

**TITANIUM 47 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TITANIUM 48**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 titanium isotopes

**TITANIUM 48 BEAMS**

*INIS: 1989-05-29; ETDE: 1989-06-21*

\*BT1 ion beams

**TITANIUM 48 REACTIONS**

*INIS: 1977-09-15; ETDE: 1978-03-08*

\*BT1 heavy ion reactions

**TITANIUM 48 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TITANIUM 49**

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 titanium isotopes  
*RT* titanium 49 reactions

**TITANIUM 49 REACTIONS**

*INIS: 1992-09-23; ETDE: 1985-09-24*

\*BT1 heavy ion reactions

*RT* titanium 49

**TITANIUM 49 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TITANIUM 50**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 titanium isotopes  
*RT* titanium 50 reactions

**TITANIUM 50 BEAMS**

*INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 ion beams

**TITANIUM 50 REACTIONS**

\*BT1 heavy ion reactions  
*RT* titanium 50

**TITANIUM 50 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TITANIUM 51**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 52**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 53**

*INIS: 1976-11-08; ETDE: 1976-09-15*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 54**

1980-11-07

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 titanium isotopes

**TITANIUM 55**

*INIS: 1991-02-11; ETDE: 1981-01-30*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 titanium isotopes

**TITANIUM 56**

*INIS: 1986-08-19; ETDE: 1981-01-30*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 titanium isotopes

**TITANIUM 57**

*INIS: 1986-08-19; ETDE: 1986-09-05*

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 titanium isotopes

**TITANIUM 58**

2005-03-11

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 titanium isotopes



**TITANIUM 59**

2005-03-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 titanium isotopes

**TITANIUM 60**

2005-03-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 titanium isotopes

**TITANIUM 61**

2008-01-28

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 titanium isotopes

**TITANIUM 62**

2008-01-28

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 titanium isotopes

**TITANIUM 63**

2008-01-28

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 titanium isotopes

**TITANIUM ADDITIONS**

1996-11-13

*Alloys containing not more than 1% Ti are listed here.*

- \*BT1 titanium alloys
- NT1 alloy-fe44ni33cr21
- NT2 incoloy 800h
- NT1 alloy-fe46ni33cr21
- NT2 incoloy 800
- NT2 incoloy 802
- NT1 alloy-in-102
- NT1 alloy-mo99
- NT2 alloy-tzm
- NT2 alloy-zm-2a
- NT1 alloy-n-10m
- NT1 alloy-ni43fe30cr22mo3
- NT2 incoloy 825
- NT1 alloy-ni51cr48
- NT2 inconel 671
- NT1 alloy-ni53cr19fe19nb5mo3
- NT2 inconel 718
- NT1 alloy-ni59cr30fe9
- NT2 inconel 690
- NT1 alloy-ni61cr22mo9nb4fe3
- NT2 inconel 625
- NT1 alloy-ni70mo17cr7fe5
- NT2 hastelloy n
- NT2 inor-8
- NT1 alloy-ni73cr20mn3nb3
- NT2 inconel 82
- NT1 alloy-ni74cr13al6mo4
- NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5
- NT2 inconel 713lc
- NT1 alloy-ni76cr15fe8
- NT2 inconel 600
- NT1 alloy-ni78cr21
- NT1 duranickel
- NT1 steel-cr15ni15motib
- NT1 steel-cr17ni13mo2ti
- NT1 steel-cr17ni13mo3ti

- NT1 steel-cr18ni10ti
- NT2 stainless steel-321
- NT1 steel-cr18ni12ti
- NT1 steel-cr18ni9ti

**TITANIUM ALLOYS**

1996-11-13

*Alloys containing more than 1% Ti.*

UF nitinol

- \*BT1 transition element alloys
- NT1 alloy-b-1900
- NT1 alloy-c-103
- NT1 alloy-d-979
- NT1 alloy-in-853
- NT1 alloy-m-813
- NT1 alloy-mar-m246
- NT1 alloy-n28t3
- NT1 alloy-ni41fe40cr16nb3
- NT2 inconel 706
- NT1 alloy-ni43fe33cr16mo3
- NT2 nimonic pe16
- NT1 alloy-ni46cr23co19ti5al4
- NT2 alloy-in-939
- NT1 alloy-ni50co20cr15al5mo5
- NT2 nimonic 105
- NT1 alloy-ni55co17cr15mo5al4ti4
- NT2 astroloy
- NT1 alloy-ni55cr19co11mo10ti3
- NT2 rene 41
- NT1 alloy-ni58cr20co14mo4ti3
- NT2 waspaloy
- NT1 alloy-ni59cr20co17ti2
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ni73cr15fe7ti3
- NT2 inconel x750
- NT1 alloy-ni76cr20ti2
- NT2 nimonic 80a
- NT1 alloy-ni77cr20ti2
- NT1 alloy-nt25a5
- NT1 carboloy
- NT1 discaloy
- NT1 incoloy 901
- NT1 konel
- NT1 ni-o-nel
- NT1 rene-100
- NT1 rene 80
- NT1 rene 95
- NT1 stainless steel-jbk-75
- NT1 steel-cr11ni10mo2ti-1
- NT1 steel-ni26cr15ti2moyalb
- NT2 alloy-a-286
- NT1 steel-ni36cr12ti3al-1
- NT1 titanium additions
- NT2 alloy-fe44ni33cr21
- NT3 incoloy 800h
- NT2 alloy-fe46ni33cr21
- NT3 incoloy 800
- NT3 incoloy 802
- NT2 alloy-in-102
- NT2 alloy-mo99
- NT3 alloy-tzm
- NT3 alloy-zm-2a
- NT2 alloy-n-10m
- NT2 alloy-ni43cr19fe19nb5mo3
- NT3 incoloy 825
- NT2 alloy-ni51cr48
- NT3 inconel 671
- NT2 alloy-ni53cr19fe19nb5mo3
- NT3 inconel 718
- NT2 alloy-ni59cr30fe9
- NT3 inconel 690
- NT2 alloy-ni61cr22mo9nb4fe3
- NT3 inconel 625
- NT2 alloy-ni70mo17cr7fe5
- NT3 hastelloy n
- NT3 inor-8

- NT2 alloy-ni73cr20mn3nb3
- NT3 inconel 82
- NT2 alloy-ni74cr13al6mo4
- NT3 inconel 713c
- NT2 alloy-ni75cr12al6mo5
- NT3 inconel 713lc
- NT2 alloy-ni76cr15fe8
- NT3 inconel 600
- NT2 alloy-ni78cr21
- NT2 duranickel
- NT2 steel-cr15ni15motib
- NT2 steel-cr17ni13mo2ti
- NT2 steel-cr17ni13mo3ti
- NT2 steel-cr18ni10ti
- NT3 stainless steel-321
- NT2 steel-cr18ni12ti
- NT2 steel-cr18ni9ti
- NT1 titanium base alloys
- NT2 alloy-ti78cr11mo7al3
- NT2 alloy-ti88mo8al3
- NT2 alloy-ti89al6mo3
- NT2 alloy-ti90al6
- NT2 alloy-ti90al6mo3
- NT2 alloy-ti90al6v4
- NT2 alloy-ti90mo7al2
- NT2 alloy-ti91al4mo3
- NT2 alloy-ti91al5cr2
- NT2 alloy-ti99
- NT1 udimet alloys
- NT2 alloy-ni53co19cr15mo5al4ti3
- NT3 udimet 700
- NT2 udimet 500

**TITANIUM-ALPHA**

- \*BT1 titanium

**TITANIUM ARSENIDES**

INIS: 2000-04-12; ETDE: 1984-06-14

(From January 1993 to February 2008

TITANIUM COMPOUNDS + ARSENIDES was used for this concept.)

- \*BT1 arsenides
- \*BT1 titanium compounds

**TITANIUM BASE ALLOYS**

UF alloy-60t

UF alloy-vt30

UF transage 117

UF transage 120

UF transage 129

UF transage 134

UF transage 175

SF alloy-ts5

- \*BT1 titanium alloys

- NT1 alloy-ti78cr11mo7al3
- NT1 alloy-ti88mo8al3
- NT1 alloy-ti89al6mo3
- NT1 alloy-ti90al6
- NT1 alloy-ti90al6mo3
- NT1 alloy-ti90al6v4
- NT1 alloy-ti90mo7al2
- NT1 alloy-ti91al4mo3
- NT1 alloy-ti91al5cr2
- NT1 alloy-ti99

**TITANIUM-BETA**

- \*BT1 titanium

**TITANIUM BORIDES**

- \*BT1 borides
- \*BT1 titanium compounds

**TITANIUM BROMIDES**

- \*BT1 bromides
- \*BT1 titanium compounds

**TITANIUM CARBIDES**

- \*BT1 carbides
- \*BT1 titanium compounds

**TITANIUM CHLORIDES**

- \*BT1 chlorides

\*BT1 titanium compounds

## TITANIUM COMPLEXES

\*BT1 transition element complexes

## TITANIUM COMPOUNDS

1997-06-19

BT1 transition element compounds

NT1 titanates

NT2 cadmium titanates

NT2 lithium titanates

NT2 plzt

NT2 pzt

NT2 strontium titanates

NT1 titanium arsenides

NT1 titanium borides

NT1 titanium bromides

NT1 titanium carbides

NT1 titanium chlorides

NT1 titanium fluorides

NT1 titanium hydrides

NT1 titanium hydroxides

NT1 titanium iodides

NT1 titanium nitrates

NT1 titanium nitrides

NT1 titanium oxides

NT1 titanium phosphates

NT1 titanium phosphides

NT1 titanium selenides

NT1 titanium silicates

NT1 titanium silicides

NT1 titanium sulfates

NT1 titanium sulfides

NT1 titanium tellurides

NT1 titanium tungstates

## TITANIUM FLUORIDES

\*BT1 fluorides

\*BT1 titanium compounds

## TITANIUM HYDRIDES

\*BT1 hydrides

\*BT1 titanium compounds

## TITANIUM HYDROXIDES

\*BT1 hydroxides

\*BT1 titanium compounds

## TITANIUM IODIDES

\*BT1 iodides

\*BT1 titanium compounds

## TITANIUM IONS

\*BT1 ions

## TITANIUM ISOTOPES

1999-07-16

BT1 isotopes

NT1 titanium 38

NT1 titanium 39

NT1 titanium 40

NT1 titanium 41

NT1 titanium 42

NT1 titanium 43

NT1 titanium 44

NT1 titanium 45

NT1 titanium 46

NT1 titanium 47

NT1 titanium 48

NT1 titanium 49

NT1 titanium 50

NT1 titanium 51

NT1 titanium 52

NT1 titanium 53

NT1 titanium 54

NT1 titanium 55

NT1 titanium 56

NT1 titanium 57

NT1 titanium 58

NT1 titanium 59

NT1 titanium 60

NT1 titanium 61

NT1 titanium 62

NT1 titanium 63

## TITANIUM NITRATES

\*BT1 nitrates

\*BT1 titanium compounds

## TITANIUM NITRIDES

\*BT1 nitrides

\*BT1 titanium compounds

## TITANIUM ORES

INIS: 1993-01-13; ETDE: 1992-09-14

BT1 ores

## TITANIUM OXIDES

1996-06-26

\*BT1 oxides

\*BT1 titanium compounds

RT brannerite

RT hollandite

RT ilmenite

RT lodochukite

RT marignacite

RT oxide minerals

RT perovskite

RT rutile

RT titanates

RT zirconolite

## TITANIUM PHOSPHATES

\*BT1 phosphates

\*BT1 titanium compounds

## TITANIUM PHOSPHIDES

INIS: 1991-09-16; ETDE: 1985-12-13

\*BT1 phosphides

\*BT1 titanium compounds

## TITANIUM SELENIDES

INIS: 1978-07-03; ETDE: 1978-02-15

\*BT1 selenides

\*BT1 titanium compounds

## TITANIUM SILICATES

\*BT1 silicates

\*BT1 titanium compounds

RT silicate minerals

RT titanite

## TITANIUM SILICIDES

1979-04-27

\*BT1 silicides

\*BT1 titanium compounds

## TITANIUM SULFATES

\*BT1 sulfates

\*BT1 titanium compounds

## TITANIUM SULFIDES

\*BT1 sulfides

\*BT1 titanium compounds

## TITANIUM TELLURIDES

INIS: 1979-09-18; ETDE: 1978-09-11

\*BT1 tellurides

\*BT1 titanium compounds

## TITANIUM TUNGSTATES

2000-04-12

\*BT1 titanium compounds

\*BT1 tungstates

## TITRATION

1995-11-22

\*BT1 volumetric analysis

NT1 amperometry

NT1 iodometry

NT1 potentiometry

NT1 thermometric titration

RT acid neutralizing capacity

RT potentiostats

## TIWI GEOTHERMAL FIELD

INIS: 2000-04-12; ETDE: 1977-07-23

BT1 geothermal fields

RT philippines

## TJ-1 TOKAMAK

INIS: 1996-03-04; ETDE: 1991-09-13

CIEMAT, Madrid, Spain.

\*BT1 tokamak devices

RT tj-1u torsatron

## TJ-II HELIAC

INIS: 1999-01-26; ETDE: 1999-09-03

CIEMAT, Madrid, Spain.

\*BT1 heliac stellarators

## TJ-IU TORSATRON

INIS: 1996-03-04; ETDE: 1996-02-26

Torsatron stellarator at CIEMAT, Madrid, Spain, which started operation in April 1994.

\*BT1 torsatron stellarators

RT tj-1 tokamak

## TLATELOLCO TREATY

INIS: 1975-12-09; ETDE: 1976-01-26

Treaty for the Prohibition of Nuclear Weapons in Latin America.

UF latin america nuclear weapons prohibition treaty

UF nuclear weapons, latin american prohibition treaty

UF prohibition of nuclear weapons (latin american treaty)

UF treaty for prohibition of nuclear weapons in latin america

BT1 treaties

RT arms control

RT nuclear weapons

## tld (dosemeters)

USE thermoluminescent dosemeters

## tld (dosimetry)

USE thermoluminescent dosimetry

## tld systems

USE thermoluminescent dosemeters

## TLM CONFIGURATIONS

INIS: 1975-08-20; ETDE: 1975-10-01

Toroidally Linked Mirror configurations.

\*BT1 magnetic mirror configurations

RT magnetic fields

RT magnetic mirrors

RT minimum-b configurations

RT tandem mirrors

RT toroidal configuration

## TLP DEVICES

1996-07-16

(Prior to August 1996 ALPHA DEVICE was a valid ETDE descriptor.)

UF alpha device

UF longitudinal pinch devices (toroidal)

UF toroidal longitudinal pinch device

\*BT1 toroidal pinch devices

NT1 zeta devices

RT longitudinal pinch

## tmpn

INIS: 1994-08-22; ETDE: 1980-01-15

2, 2, 6, 6-tetramethyl-4-piperidinol-N-oxyl.

(Until August 1994 this was a valid descriptor.)

USE hydroxy compounds

USE organic oxygen compounds

USE piperidines

## TMR REACTORS

INIS: 1981-07-06; ETDE: 1978-04-27

UF tandem mirror type reactors

SF tandem mirror devices

- \*BT1 magnetic mirror type reactors
- RT magnetic mirrors
- RT tandem mirrors
- RT thermal barriers

**TMTSF**

- INIS: 1983-10-14; ETDE: 1983-04-07
- UF tetramethyltetraselenafulvalene
  - \*BT1 heterocyclic compounds
  - \*BT1 organic superconductors
  - BT1 selenium compounds

**TMX DEVICES**

- INIS: 1978-04-21; ETDE: 1977-08-25
- Tandem Mirror Experiment at Lawrence Livermore Laboratory.*
- UF tandem mirror experiment at uclll
  - SF tandem mirror devices
  - \*BT1 tandem mirrors
  - RT lawrence livermore laboratory
  - RT magnetic mirror type reactors
  - RT thermal barriers

**tna**

- 2000-04-12
- (Prior to February 1996 this was a valid ETDE descriptor; it was used for the concept TRINONYLAMINE.)
- USE amines
  - USE chelating agents

**tnp**

- 2, 4, 6-trinitro phenol.
- USE picric acid

**TNS REACTORS**

- INIS: 1978-09-28; ETDE: 1978-03-03
- The next tokamak confinement device beyond TFTR.*
- UF the next step device
  - UF the next step thermonuclear reactor
  - \*BT1 tokamak type reactors

**TNT**

- UF trinitrotoluene
- \*BT1 chemical explosives
- \*BT1 nitro compounds
- RT toluene

**TNT-A TOKAMAK**

- INIS: 1985-03-19; ETDE: 1985-04-09
- UF tokyo non-circular tokamak
  - \*BT1 tokamak devices

**tntr-kiwi**

- 2000-04-12
- USE kiwi-tnt reactor

**toa (trioctylamine)**

- ETDE: 2005-02-01
- (Prior to January 2005 TOA was a valid descriptor.)
- USE trioctylamine

**TOADS**

- INIS: 1993-07-19; ETDE: 1977-09-19
- (Until July 1993, this concept was indexed by FROGS.)
- \*BT1 amphibians
  - RT frogs

**TOBACCO**

- RT crops
- RT nicotiana
- RT tobacco smokes

**TOBACCO MOSAIC VIRUS**

- \*BT1 viruses
- RT plant diseases

**tobacco plant**

- USE nicotiana

**TOBACCO PRODUCTS**

- 2000-04-12
- SF cigarettes
  - RT nicotiana
  - RT tobacco smokes

**TOBACCO SMOKES**

- \*BT1 smokes
- RT tobacco
- RT tobacco products

**tocopherols**

- USE vitamin e

**TOGGLE OPERATION**

- INIS: 2000-04-12; ETDE: 1979-11-23
- \*BT1 nuclear explosions
  - \*BT1 underground explosions
  - NT1 rio blanco event
  - RT contained explosions

**TOGO**

- INIS: 1981-02-27; ETDE: 1980-08-12
- BT1 africa
  - BT1 developing countries

**tohoku-1 reactor**

- USE onagawa-1 reactor

**tohoku avf cyclotron**

- INIS: 1983-06-30; ETDE: 2000-09-20
- USE tohoku cyclotron

**TOHOKU CYCLOTRON**

- INIS: 1983-06-30; ETDE: 1995-02-13
- At Cyclotron and Radioisotope Center, Tohoku University, Sendai, Japan.*
- UF cyric cyclotron
  - UF sendai cyclotron
  - UF tohoku avf cyclotron
  - UF tohoku university cyclotron
  - \*BT1 heavy ion accelerators
  - \*BT1 isochronous cyclotrons

**tohoku university cyclotron**

- INIS: 1983-06-30; ETDE: 2000-09-20
- USE tohoku cyclotron

**TOILETS**

- INIS: 2000-04-12; ETDE: 1977-06-21
- RT residential buildings

**tokai-1 reactor**

- ETDE: 2002-06-13
- USE tokai-mura reactor

**TOKAI-2 REACTOR**

- JAPCO, Tokai, Ibaraki, Japan.*
- UF japco-3 reactor
  - \*BT1 bwr type reactors

**tokai-mura fast critical assembly**

- USE fca reactor

**TOKAI-MURA REACTOR**

- JAPCO, Tokai, Ibaraki, Japan.*
- UF japco-1 reactor
  - UF tokai-1 reactor
  - \*BT1 carbon dioxide cooled reactors
  - \*BT1 magnox type reactors
  - \*BT1 thermal reactors

**TOKAI REPROCESSING PLANT**

- 2006-04-19
- \*BT1 fuel reprocessing plants

**tokamak chauffage alfven (brazil)**

- 2004-07-09
- USE tcabr tokamak

**tokamak chauffage alfven (switzerland)**

- INIS: 1984-04-04; ETDE: 1984-05-08
- USE tea tokamak

**tokamak de vareennes**

- 1983-09-06
- USE vareennes tokamak

**TOKAMAK DEVICES**

- 1998-01-28
- UF flux conserving tokamaks
  - UF smartor device
  - \*BT1 closed plasma devices
  - NT1 act devices
  - NT1 aditya tokamak
  - NT1 alcator device
  - NT1 asdex tokamak
  - NT1 atc devices
  - NT1 castor tokamak
  - NT1 columbia high-beta tokamak
  - NT1 compact ignition tokamak
  - NT1 compass-d tokamak
  - NT1 continuous current tokamak
  - NT1 ct-6b tokamak
  - NT1 dante tokamak
  - NT1 dite tokamak
  - NT1 doublet-2 device
  - NT1 doublet-3 device
  - NT1 etf tokamak
  - NT1 ft tokamak
  - NT1 hl-1 tokamak
  - NT1 hl-1m tokamak
  - NT1 hl-2 tokamak
  - NT1 hl-2a tokamak
  - NT1 ht-2 tokamak
  - NT1 ht-6b tokamak
  - NT1 ht-6m tokamak
  - NT1 ht-7 tokamak
  - NT1 ht-7u tokamak
  - NT1 hybtok tokamaks
  - NT1 ignition spherical torus
  - NT1 intor tokamak
  - NT1 isstok tokamak
  - NT1 isx tokamak
  - NT1 iter tokamak
  - NT1 jet tokamak
  - NT1 jft-2 tokamak
  - NT1 jft-2a tokamak
  - NT1 jft-2m tokamak
  - NT1 jippt-2 device
  - NT1 jt-60 tokamak
  - NT1 jt-60u tokamak
  - NT1 jxfr tokamak
  - NT1 kt-2 tokamak
  - NT1 lt-3 tokamak
  - NT1 lt-4 tokamak
  - NT1 mt-1 tokamak
  - NT1 mtx tokamak
  - NT1 net tokamak
  - NT1 ormak devices
  - NT1 pbx devices
  - NT1 pdx devices
  - NT1 petula tokamak
  - NT1 phaedrus-t tokamak
  - NT1 plt devices
  - NT1 pulsator devices
  - NT1 rtp tokamak
  - NT1 sinp tokamak
  - NT1 spheromak devices
  - NT2 cdx-u spheromak
  - NT2 ctx spheromak
  - NT2 globus-m spheromak
  - NT2 mast tokamak
  - NT2 nstx device
  - NT2 sspix device
  - NT2 sunist spheromak
  - NT2 ts-3 device
  - NT1 st tokamak

**NT1** starfire tokamak  
**NT1** start tokamak  
**NT1** stor-m tokamak  
**NT1** stx devices  
**NT1** surmac tokamak  
**NT1** t-10 tokamak  
**NT1** t-14 tokamak  
**NT1** t-15 tokamak  
**NT1** t-7 tokamak  
**NT1** tbr tokamak  
**NT1** tea tokamak  
**NT1** tcabr tokamak  
**NT1** tcv tokamak  
**NT1** text devices  
**NT1** textor tokamak  
**NT1** tfr tokamak  
**NT1** tfr tokamak  
**NT1** tiber-x tokamak  
**NT1** tj-1 tokamak  
**NT1** tnt-a tokamak  
**NT1** tokapole devices  
**NT1** tokoloshe tokamak  
**NT1** tore supra tokamak  
**NT1** tormac devices  
**NT1** tortus tokamak  
**NT1** torus-ii tokamak  
**NT1** toscia tokamak  
**NT1** tpx device  
**NT1** triam-1 tokamak  
**NT1** tuman devices  
**NT1** two-component torus  
**NT1** uwmak devices  
**NT1** varences tokamak  
**NT1** versator tokamak  
**NT1** wt-3 tokamak  
**RT** banana regime  
**RT** h-mode plasma confinement  
**RT** magnetic surfaces  
**RT** marfe  
**RT** mode rational surfaces  
**RT** pfirsch-schlueter regime  
**RT** plasma disruption  
**RT** plasma radial profiles  
**RT** plateau regime  
**RT** sawtooth oscillations  
**RT** tokamak type reactors  
**RT** wega stellarator

### **tokamak etf**

*INIS: 2000-04-12; ETDE: 1979-12-17*  
 (Prior to July 1985, this was a valid ETDE descriptor.)  
 USE etf tokamak

### **tokamak fontenay-aux-roses**

USE tfr tokamak

### **tokamak fusion core experiment**

*INIS: 1994-04-11; ETDE: 1984-10-24*  
 USE tfix reactors

### **tokamak fusion test reactor**

*INIS: 1977-11-02; ETDE: 1975-09-11*  
 USE tfr tokamak

### **tokamak model st**

USE st tokamak

### **TOKAMAK TYPE REACTORS**

*INIS: 1997-06-19; ETDE: 1976-09-15*  
**BT1** thermonuclear reactors  
**NT1** compact ignition tokamak  
**NT1** doublet reactors  
**NT1** iter tokamak  
**NT1** tentok reactors  
**NT1** tfix reactors  
**NT1** tns reactors  
**RT** tokamak devices

### **TOKAPOLE DEVICES**

*INIS: 1981-07-06; ETDE: 1978-12-11*  
**\*BT1** internal ring devices  
**\*BT1** tokamak devices

### **TOKOLOSHE TOKAMAK**

*INIS: 1991-03-22; ETDE: 1991-04-09*  
*Pelindaba, Pretoria, South Africa.*  
**\*BT1** tokamak devices

### **tokyo-1 reactor**

USE fukushima-1 reactor

### **tokyo-2 reactor**

USE fukushima-2 reactor

### **tokyo-3 reactor**

USE fukushima-3 reactor

### **tokyo-4 reactor**

USE fukushima-4 reactor

### **tokyo-denrioku k-1 reactor**

*INIS: 1987-01-28; ETDE: 2002-06-13*  
 USE kashiwazaki-kariwa-1 reactor

### **tokyo-denryoku k-2 reactor**

*INIS: 1985-04-22; ETDE: 1985-05-07*  
 USE kashiwazaki-kariwa-2 reactor

### **TOKYO INS CYCLOTRON**

*INIS: 1983-06-01; ETDE: 1983-03-24*  
*Sector-focused cyclotron at Institute for Nuclear Studies, University of Tokyo.*  
**UF** ins cyclotron (tokyo)  
**UF** institute for nuclear studies cyclotron  
**\*BT1** heavy ion accelerators  
**\*BT1** isochronous cyclotrons

### **tokyo non-circular tokamak**

*INIS: 1985-03-19; ETDE: 1985-04-09*  
 USE tnt-a tokamak

### **TOKYO SYNCHROTRON**

*1.3-Gev electron synchrotron.*  
**\*BT1** synchrotrons

### **TOLAN**

**UF** phenylacetylene  
**\*BT1** aromatics  
**\*BT1** hydrocarbons

### **TOLERANCE**

*INIS: 1992-04-13; ETDE: 1976-08-24*  
**RT** accuracy  
**RT** biological adaptation  
**RT** dimensions  
**RT** errors  
**RT** hysteresis  
**RT** quality control

### **toller poles**

USE lorentz poles

### **TOLUENE**

**UF** methylbenzene  
**\*BT1** alkylated aromatics  
**\*BT1** hydrocarbons  
**RT** tnt  
**RT** toluidines

### **TOLUIDINE BLUE**

**\*BT1** azo dyes  
**RT** toluidines

### **TOLUIDINES**

**UF** aminotoluenes  
**UF** tolylamines  
**\*BT1** amines  
**RT** toluene  
**RT** toluidine blue

### **toluylene red**

1996-10-23  
 (Prior to March 1997 NEUTRAL RED was used for this concept in ETDE.)  
 USE amines  
 USE indicators  
 USE pyrazines

### **TOLYL RADICALS**

**\*BT1** aryl radicals

### **tolylamines**

USE toluidines

### **TOMARI-1 REACTOR**

*INIS: 1989-09-14; ETDE: 1989-10-16*  
*Hokkaido Electric Power Co., Tomari, Hokkaido, Japan.*  
**\*BT1** pwr type reactors

### **TOMARI-2 REACTOR**

*INIS: 1989-11-24; ETDE: 1989-12-08*  
*Hokkaido Electric Power Co., Tomari, Hokkaido, Japan.*  
**\*BT1** pwr type reactors

### **TOMATOES**

**\*BT1** fruits

### **TOMOGRAPHY**

*A radiographic technique characterized by the movement of two of the three components - source, object, and film - so that a clear image of one plane of the object is registered, while images of all other planes are blurred.*

**UF** laminography  
**BT1** diagnostic techniques  
**NT1** compton scattering tomography  
**NT1** computerized tomography  
**NT2** cat scanning  
**NT2** emission computed tomography  
**NT3** ecat scanning  
**NT3** positron computed tomography  
**NT3** single photon emission computed tomography  
**NT2** photon computed tomography  
**NT2** proton computed tomography  
**NT1** grazing incidence tomography  
**RT** biomedical radiography  
**RT** collimators  
**RT** focusing  
**RT** industrial radiography  
**RT** radioisotope scanning

### **TOMONAGA APPROXIMATION**

**UF** intermediate coupling approximation  
**\*BT1** approximations  
**RT** intermediate coupling

### **tomotherapy**

2007-11-22  
 USE ct-guided radiotherapy

### **TOMSK SYNCHROTRON**

**UF** sirius synchrotron  
**\*BT1** synchrotrons

### **TONGONAN GEOTHERMAL FIELD**

*INIS: 1992-06-04; ETDE: 1979-09-06*  
**BT1** geothermal fields  
**RT** philippines

### **TONGUE**

**\*BT1** oral cavity  
**\*BT1** organs  
**RT** muscles

### **tonks-dattner resonance**

2000-04-12  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 SEE plasma waves

**tonks-langmuir oscillations**

USE tonks-langmuir theory

**TONKS-LANGMUIR THEORY**

UF *tonks-langmuir oscillations*  
RT plasma waves

**TONOPAH TEST RANGE**

INIS: 1976-02-05; ETDE: 1975-08-19

BT1 military facilities  
\*BT1 nevada  
BT1 test facilities  
RT nevada test site  
RT sandia laboratories  
RT sandia national laboratories

**tonsils**

USE lymphatic system  
USE pharynx

**TOOLS**

*Not for educational tools.*

BT1 equipment  
NT1 cutting tools  
NT1 drill bits  
NT1 machine tools  
NT2 grinding machines  
NT2 lathes  
NT2 milling machines  
RT machining  
RT presses

**tools (educational)**

INIS: 2000-04-12; ETDE: 1980-11-08  
USE educational tools

**top accidents**

INIS: 1979-09-18; ETDE: 1979-03-29  
USE transient overpower accidents

**TOP PARTICLES**

INIS: 1985-07-23; ETDE: 1985-08-09  
*Particles with T quantum number not = 0.*  
\*BT1 postulated particles  
NT1 t quarks  
NT2 t antiquarks  
RT beauty particles  
RT flavor model  
RT toponium

**top quark model**

INIS: 1984-04-04; ETDE: 1979-11-07  
USE flavor model

**top quarks**

INIS: 1995-12-01; ETDE: 2002-06-13  
USE t quarks

**TOPAZ REACTOR**

\*BT1 experimental reactors  
\*BT1 hydride moderated reactors  
\*BT1 power reactors  
RT hydride moderators  
RT thermionic converters

**TOPHET**

2000-04-12  
\*BT1 chromium alloys  
\*BT1 heat resisting alloys  
\*BT1 nickel base alloys

**tophet a**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE alloy-ni80cr20

**tophet c**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE alloy-ni60fe24cr16

**topo (trioctylphosphine oxide)**

ETDE: 2005-02-01  
(Prior to January 2005 TOPO was a valid descriptor.)  
USE trioctylphosphine oxide

**TOPOGRAPHY**

RT complex terrain  
RT earth planet  
RT maps  
RT site characterization  
RT submarine canyons

**TOPOLOGICAL FOLIATION**

RT differential topology  
RT smooth manifolds  
RT surfaces

**TOPOLOGICAL MAPPING**

UF *mapping (topological)*  
BT1 mapping  
BT1 transformations  
NT1 conformal mapping  
RT graph theory  
RT mapping fibration  
RT mathematical manifolds  
RT topology

**TOPOLOGY**

UF *cobordism theory*  
BT1 mathematics  
NT1 differential topology  
RT dimensions  
RT fractals  
RT global analysis  
RT graph theory  
RT invariant imbedding  
RT mathematical manifolds  
RT periodicity  
RT topological mapping

**TOPONIUM**

INIS: 1986-05-23; ETDE: 1985-12-11  
*A bound state of top and antitop quarks.*  
\*BT1 mesons  
BT1 quarkonium  
RT bound state  
RT flavor model  
RT t quarks  
RT top particles

**TOPPING CYCLES**

1984-04-04  
RT thermodynamic cycles

**top reactor**

USE thor reactor

**tops (trioctylphosphine sulfide)**

ETDE: 2005-02-01  
(Prior to January 2005 TOPS was a valid descriptor.)  
USE trioctylphosphine sulfide

**topsoe-snpa process**

INIS: 2000-04-12; ETDE: 1977-12-22  
*Dry catalytic oxidation and reduction process for treating Claus tail gas.*  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE desulfurization

**tor devices**

2000-04-12  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE stellarators

**TORBANITE**

2000-04-12  
\*BT1 boghead coal  
RT minerals

**TORBERNITE**

\*BT1 phosphate minerals  
\*BT1 uranium minerals  
RT copper phosphates  
RT uranium phosphates

**tore supra**

INIS: 2000-04-12; ETDE: 1983-03-24  
(Prior to July 1985 this was a valid ETDE descriptor.)  
USE tore supra tokamak

**TORE SUPRA TOKAMAK**

INIS: 1983-06-02; ETDE: 1983-07-07  
UF *tore supra*  
\*BT1 tokamak devices

**TORI**

NT1 compact torus  
NT2 field-reversed theta pinch devices  
NT2 rotamak devices  
RT annular space  
RT aspect ratio  
RT bumpy tori  
RT rings  
RT rotational transform  
RT toroidal configuration

**TORMAC DEVICES**

INIS: 1976-07-30; ETDE: 1975-07-29  
UF *tormak devices*  
\*BT1 tokamak devices

**tormak devices**

INIS: 1984-06-21; ETDE: 2002-06-13  
(Prior to July 1984 this was a valid descriptor.)  
USE tormac devices

**TORNADO DEVICES**

\*BT1 internal ring devices

**TORNADO TURBINES**

INIS: 2000-04-12; ETDE: 1977-06-02  
*Grumman Aerospace Corp. name for vertical axis turbines in bottom of vertical slotted cylinders with large air intake beneath cylinders.*  
\*BT1 vertical axis turbines  
RT solar chimneys

**TORNADOES**

BT1 storms  
RT turbulence  
RT weather  
RT wind

**TORNESS REACTOR**

INIS: 1981-02-27; ETDE: 1981-03-13  
*Dunbar, East Lothian, United Kingdom.*  
\*BT1 agr type reactors  
\*BT1 carbon dioxide cooled reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**TOROIDAL CONFIGURATION**

\*BT1 annular space  
\*BT1 closed configurations  
RT compact torus  
RT reversed-field pinch devices  
RT rotational transform  
RT tlm configurations  
RT tori

**TOROIDAL FIELD DIVERTORS**

INIS: 1981-07-06; ETDE: 1989-09-18  
*Divertors that displace the toroidal field lines to form a separatrix in the toroidal field.*  
BT1 divertors  
RT bundle divertors

**toroidal longitudinal pinch device**

USE tlp devices

**TOROIDAL PINCH DEVICES**

UF toroidal pinch type reactors

\*BT1 closed plasma devices

\*BT1 pinch devices

NT1 reversed-field pinch devices

NT2 artemis device

NT2 extrap-t2 device

NT2 hbtx devices

NT2 mst device

NT2 rfx device

NT2 tpe-1rm15 device

NT2 tpe-rx device

NT2 zt-40 devices

NT2 zt-p devices

NT1 tlp devices

NT2 zeta devices

NT1 toroidal screw pinch devices

NT2 stp-3m device

NT2 tpe-2 device

NT1 toroidal theta pinch devices

NT2 scyllac devices

RT banana regime

**toroidal pinch type reactors**

INIS: 2000-04-12; ETDE: 1976-09-15

(Prior to July 1985, this was a valid ETDE descriptor.)

USE toroidal pinch devices

**TOROIDAL SCREW PINCH DEVICES**

\*BT1 toroidal pinch devices

NT1 stp-3m device

NT1 tpe-2 device

RT screw pinch

**TOROIDAL THETA PINCH DEVICES**

\*BT1 toroidal pinch devices

NT1 scyllac devices

RT reference theta pinch reactor

RT theta pinch

**toronto university slowpoke reactor**

INIS: 1993-11-10; ETDE: 2002-06-13

USE slowpoke-toronto reactor

**TORQUE**

RT torsion

**torrey pines triga-mark-3 reactor**

2000-04-12

USE triga-3-la jolla reactor

**torrey pines triga-mk-3 reactor**

INIS: 1993-11-10; ETDE: 2002-06-13

USE triga-3-la jolla reactor

**TORSATRON STELLARATORS**

1996-03-04

(Prior to December 1990, this was spelled TORSATRON STELLARATOR.)

UF uragan-3 stellarator

\*BT1 stellarators

NT1 atf torsatron

NT1 chs torsatron

NT1 tj-ii torsatron

NT1 vint torsatron

RT heliotron

RT lhd device

**TORSION**

RT deformation

RT springs

RT torque

**TORTUS TOKAMAK**

INIS: 1991-03-22; ETDE: 1991-04-09

Sydney University, Sydney, Australia.

\*BT1 tokamak devices

**TORULA**

UF torulopsis

\*BT1 yeasts

**torulopsis**

USE torula

**torus experiment for technology oriented research**

INIS: 1993-11-10; ETDE: 2002-06-13

USE textor tokamak

**TORUS-II TOKAMAK**

INIS: 1977-02-08; ETDE: 1977-04-13

Device to be built within the EURATOM-CEA Association.

\*BT1 tokamak devices

**TORY-2A REACTOR**

2000-04-12

University of California Lawrence Radiation Laboratory, Mercury Test Site, Mercury, Nevada, USA. Disassembled in 1961.

SF experimental propulsion test reactor

\*BT1 air cooled reactors

\*BT1 experimental reactors

\*BT1 propulsion reactors

\*BT1 research reactors

\*BT1 test reactors

**TORY-2C REACTOR**

University of California Lawrence Radiation Laboratory, Nevada Test Site, Mercury, Nevada, USA.

SF experimental propulsion test reactor

\*BT1 air cooled reactors

\*BT1 experimental reactors

\*BT1 propulsion reactors

\*BT1 test reactors

**tosbac computers**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE computers

**TOSCA TOKAMAK**

INIS: 1987-06-29; ETDE: 1987-07-09

\*BT1 tokamak devices

**TOSCO-DYNE PROCESS**

INIS: 2000-04-12; ETDE: 1979-01-30

Coal is pyrolyzed to intermediate btu gas, liquid product, and char; the char is converted to low btu gas in fluidized bed gasifier.

\*BT1 coal gasification

RT combined-cycle power plants

RT toscoal process

**TOSCO PROCESS**

2000-04-12

Crushed raw shale preheated to approx. 400 degrees F is transported to a pyrolysis drum and mixed with ceramic balls preheated to approx. 1100 degrees F when shale reaches a temperature of approx. 900 degrees F, conversion of the kerogen to hydrocarbon vapors is substantially complete. Pyrolysis vapors are then condensed, fractionated and piped to upgrading facility for refining.

RT oil shales

**TOSCOAL PROCESS**

2000-04-12

The oil shale corporation pyrolysis process that produces char with a high heating value plus oil and gas. Hot ceramic balls are used as a heat source.

\*BT1 coal gasification

RT tosco-dyne process

**TOSHIBA REACTOR**

Toshiba, Kawasaki, Kanagawa, Japan.

UF toshiba training reactor

UF ttr-1 toshiba reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**toshiba training reactor**

USE toshiba reactor

**total-absorption spectrometers**

2000-04-12

USE shower counters

**TOTAL CROSS SECTIONS**

Cross sections integrated over all angles and all reaction channels.

BT1 cross sections

RT excitation functions

RT pomeranchuk theorem

**TOTAL ENERGY SYSTEMS**

1982-12-03

Integral energy systems of high efficiency, e.g., a system utilizing gas-fired turbines or engines that produce electrical energy and utilize exhaust heat in applications such as heating and cooling.

UF integrated utility systems

UF ius

BT1 energy systems

RT cogeneration

RT combined cycles

RT energy conservation

RT energy consumption

RT ices program

RT integrated energy utility systems

RT modular integrated utility systems

RT steam generation plants

**TOTAL FLOW SYSTEMS**

2000-04-12

Systems in which the total hot well head brine-steam mixture is passed through a mixed-phase expander to drive a turbine and an electric generating system.

BT1 energy systems

RT geothermal energy conversion

RT geothermal power plants

RT rotary separator turbines

RT steam

RT thermodynamic cycles

RT water

**TOTAL SUSPENDED PARTICULATES**

INIS: 1992-07-20; ETDE: 1981-05-18

UF tsp

\*BT1 particulates

RT aerosols

RT air pollution

RT dispersions

**toughness (fracture)**

USE fracture properties

**TOURISM**

INIS: 1999-05-03; ETDE: 1980-06-06

RT hotels

RT industry

RT recreational areas

RT transport

**TOURMALINE**

\*BT1 silicate minerals

RT aluminium silicates

RT boron silicates

RT dielectric track detectors

**TOWER FOCUS COLLECTORS**

2000-04-12

- \*BT1 concentrating collectors
- RT advanced components test facility
- RT central receiver test facility
- RT tower focus power plants

**TOWER FOCUS POWER PLANTS**

INIS: 1999-10-08; ETDE: 1975-09-11

- UF central receiver power plants
- UF eurelios solar power plant
- \*BT1 solar thermal power plants
- NT1 barstow solar pilot plant
- RT advanced components test facility
- RT central receiver test facility
- RT central receivers
- RT tower focus collectors

**tower shielding reactor-1**

USE tsr-1 reactor

**tower shielding reactor-2**

USE tsr-2 reactor

**towers**

INIS: 2000-04-12; ETDE: 1981-08-21

(Prior to August 1981, this concept in ETDE was indexed by MECHANICAL STRUCTURES. From August 1981 to June 1992 this was a valid descriptor.)

- SEE cooling towers
- SEE mechanical structures
- SEE power transmission towers

**towers (extraction)**

USE extraction columns

**towers (structures)**

ETDE: 2002-06-13

USE mechanical structures

**TOWN GAS**

1992-07-21

Gas produced by a public utility for general use.

- \*BT1 intermediate btu gas
- RT coal gas

**townsend avalanche**

USE townsend discharge

**TOWNSEND DISCHARGE**

- UF avalanche multiplication
- UF townsend avalanche
- UF townsend formula
- UF townsend theory
- BT1 electric discharges
- RT avalanche quenching

**townsend formula**

USE townsend discharge

**townsend process**

2000-04-12

Sweetens natural gas by treating it with solution of sulfur dioxide in hygroscopic organic liquid, e.g., diethylene glycol containing no more than 10% water.

(Prior to March 1994, this was a valid ETDE descriptor.)

SEE desulfurization

**townsend theory**

USE townsend discharge

**TOXIC MATERIALS**

INIS: 2000-05-17; ETDE: 1977-06-21

(Until March 1992, this concept was indexed by HAZARDOUS MATERIALS.)

- \*BT1 hazardous materials
- NT1 toxins
- NT2 endotoxins

NT2 mycotoxins

NT3 aflatoxins

- RT chemical warfare agents
- RT detoxification
- RT heavy metals
- RT polychlorinated biphenyls
- RT toxicity

**toxic substances control act**

INIS: 2000-04-12; ETDE: 1980-09-05

USE toxic substances control acts

**TOXIC SUBSTANCES CONTROL ACTS**

INIS: 1993-03-26; ETDE: 1993-08-17

(Prior to August 1993 this concept in ETDE was indexed to TOXIC SUBSTANCES CONTROL ACT.)

- UF toxic substances control act
- BT1 laws
- RT hazardous materials
- RT legislation

**TOXICITY**

- RT acute exposure
- RT aflatoxins
- RT biological effects
- RT chronic exposure
- RT detoxification
- RT dose-response relationships
- RT drugs
- RT hazardous materials
- RT lethal doses
- RT mimosine
- RT mycotoxins
- RT prenatal exposure
- RT toxic materials
- RT toxins
- RT venoms

**TOXINS**

- BT1 antigens
- \*BT1 toxic materials
- NT1 endotoxins
- NT1 mycotoxins
- NT2 aflatoxins
- RT antitoxins
- RT bacteria
- RT clostridium
- RT detoxification
- RT radiotoxins
- RT toxicity
- RT toxoids
- RT venoms

**TOXOIDS**

INIS: 1975-11-07; ETDE: 1975-12-16

- RT antibodies
- RT immune reactions
- RT immunity
- RT toxins

**tpc**

INIS: 1984-04-04; ETDE: 1979-02-23

Time Projection Chambers.

USE time projection chambers

**TPE-IRM15 DEVICE**

INIS: 1995-10-03; ETDE: 1990-01-03

Electrotechnical Laboratory, Tsukuba, Ibaraki, Japan.

- \*BT1 reversed-field pinch devices
- RT reverse-field pinch

**TPE-2 DEVICE**

INIS: 1995-09-07; ETDE: 1990-01-03

Electrotechnical Laboratory, Tsukuba, Ibaraki, Japan.

\*BT1 toroidal screw pinch devices

**TPE-RX DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03

Electrotechnical Laboratory, Tsukuba, Ibaraki, Japan.

\*BT1 reversed-field pinch devices

**tpo (triphenylphosphine oxide)**

ETDE: 2005-02-01

(Prior to January 2005 TPO was a valid descriptor.)

USE triphenylphosphine oxide

**TPX DEVICE**

INIS: 1994-09-29; ETDE: 1994-08-18

Tokamak Physics Experiment device, Princeton Plasma Physics Laboratory, USA.

\*BT1 tokamak devices

**TR-0 REACTOR**

Tezkovodni Reaktor nuloveho vykonu.

UF czechoslovak tr-0 reactor

UF rez tr-0 reactor

- \*BT1 heavy water moderated reactors
- \*BT1 zero power reactors

**TR-1 REACTOR**

Cekmece Nuclear Research and Training Centre, Turkish Atomic Energy Authority, Istanbul, Turkey.

UF turkish reactor-1

- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**TR-2 REACTOR**

1991-07-02

Cekmece Nuclear Research and Training Centre, Turkish Atomic Energy Authority, Istanbul, Turkey.

UF turkish reactor-2

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**TRABECULAR BONE**

\*BT1 bone tissues

RT bone marrow

**TRACE AMOUNTS**

1995-06-21

- UF trace elements
- RT carrier-free isotopes
- RT crystal doping
- RT doped materials
- RT impurities
- RT inclusions
- RT ion implantation
- RT microanalysis

**trace elements**

1995-06-21

Coordinate TRACE AMOUNTS with the descriptor ELEMENTS or with descriptors for specific elements.

- USE elements
- USE trace amounts

**TRACER TECHNIQUES**

- SF radioactive tracers
- BT1 isotope applications
- NT1 dual-isotope subtraction technique
- NT1 isotope dilution
- NT1 labelled pool techniques
- NT1 radioactive tracer logging
- NT1 radioimmunodetection
- NT2 radioimmunoassay
- NT2 radioimmunosciintigraphy

**NTI** radioreceptor assay  
*RT* autoradiography  
*RT* biological markers  
*RT* crime detection  
*RT* diagnosis  
*RT* diagnostic techniques  
*RT* dynamic function studies  
*RT* labelled compounds  
*RT* nuclear medicine  
*RT* radio-release analysis  
*RT* radiobiology  
*RT* radionuclide kinetics  
*RT* radionuclide migration  
*RT* radiopharmaceuticals  
*RT* renography

**TRACHEA**

**BT1** respiratory system  
*RT* intratracheal administration  
*RT* mediastinum

**TRACHYTES**

*INIS: 2000-04-12; ETDE: 1980-08-12*

\***BT1** volcanic rocks  
*RT* perlite

**track detectors (dielectric)**

USE dielectric track detectors

**track detectors (gas)**

USE gas track detectors

**track detectors (photographic)**

USE photographic film detectors

**TRACKLESS VEHICLES**

*INIS: 2000-04-12; ETDE: 1979-06-06*

*UF* free steered vehicles  
*UF* shuttle cars  
*UF* trolleybuses  
**BT1** vehicles

**tracks**

USE particle tracks

**tract c-a prototype oil shale project**

*INIS: 2000-04-12; ETDE: 1976-03-11*

USE rio blanco oil shale project

**TRACY REACTOR**

*INIS: 2001-09-25; ETDE: 2001-11-30*

*JAERI, Tokai, Ibaraki, Japan.*

*UF* transient experiment critical facility  
 \***BT1** enriched uranium reactors  
 \***BT1** plutonium reactors  
 \***BT1** zero power reactors  
*RT* stacy reactor

**TRADE**

(From February 1979 till May 1996 NET TRADE was a valid ETDE descriptor.)

*UF* commerce  
*UF* net trade  
**NTI** exports  
**NTI** imports  
**NTI** nuclear trade  
*RT* business  
*RT* cartels  
*RT* commercial sector  
*RT* competition  
*RT* domestic supplies  
*RT* economics  
*RT* embargoes  
*RT* foreign exchange rate  
*RT* globalization  
*RT* international relations  
*RT* market  
*RT* monopolies  
*RT* oil-importing countries  
*RT* receipts  
*RT* sales  
*RT* small businesses

*RT* supply and demand  
*RT* tariffs  
*RT* taxes

**trade (nuclear)**

*INIS: 2000-04-12; ETDE: 1978-03-03*

USE nuclear trade

**TRADESCANTIA**

\***BT1** liliopsida

**TRAFFIC CONTROL**

*INIS: 1992-05-04; ETDE: 1978-01-23*

*Control of vehicular traffic.*

**BT1** control  
*RT* vehicles

**trailers**

*INIS: 2000-04-12; ETDE: 1982-02-11*

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE vehicles

**TRAINING**

*INIS: 2000-03-28; ETDE: 1980-10-07*

*Development or upgrading of a particular skill, usually by intensive or specialized methods; for broad, more leisurely instruction, use EDUCATION.*

*UF* job training  
*UF* vocational training  
**BT1** education  
**NTI** computer-aided instruction  
*RT* educational tools  
*RT* learning  
*RT* manpower

**training facilities**

*INIS: 1983-06-30; ETDE: 2002-06-13*

USE educational facilities

**TRAINING REACTORS**

\***BT1** research and test reactors  
**NTI** arojet-general nucleonics reactors  
**NTI** afri reactor  
**NTI** ai-1-77 reactor  
**NTI** akr-1 reactor  
**NTI** apsara reactor  
**NTI** arbi reactor  
**NTI** argonaut reactor  
**NTI** argos reactor  
**NTI** athene reactor  
**NTI** atrp reactor  
**NTI** bgrr reactor  
**NTI** budapest training reactor  
**NTI** byu 1-77 reactor  
**NTI** cesnef reactor  
**NTI** cirus reactor  
**NTI** colorado triga-mk-3 reactor  
**NTI** consort-2 reactor  
**NTI** cornell triga-mk-2 reactor  
**NTI** dow triga-mk-1 reactor  
**NTI** dr-1 reactor  
**NTI** es-salam reactor  
**NTI** fir-1 reactor  
**NTI** fnr reactor  
**NTI** fr-0 reactor  
**NTI** frf reactor  
**NTI** frg-1 reactor  
**NTI** gleep reactor  
**NTI** gtrr reactor  
**NTI** gulf triga-mk-3 reactor  
**NTI** hor reactor  
**NTI** htr reactor  
**NTI** ian-r1 reactor  
**NTI** iowa utr-10 reactor  
**NTI** ir-100 reactor  
**NTI** jason reactor  
**NTI** jrr-1 reactor  
**NTI** kur reactor  
**NTI** lfr reactor

**NTI** melusine-1 reactor  
**NTI** merlin reactor  
**NTI** mitr reactor  
**NTI** moata reactor  
**NTI** murr reactor  
**NTI** ncsr-1 reactor  
**NTI** nevada university reactor  
**NTI** nscr reactor  
**NTI** ostr reactor  
**NTI** osur reactor  
**NTI** prnc-1-77 reactor  
**NTI** pstr reactor  
**NTI** pur-1 reactor  
**NTI** queen mary college utr-b reactor  
**NTI** r-b reactor  
**NTI** ra-1 reactor  
**NTI** rien-1 reactor  
**NTI** rts-1 reactor  
**NTI** rv-1 reactor  
**NTI** sr-3p reactor  
**NTI** src-utr-100 reactor  
**NTI** stark reactor  
**NTI** strasbourg-cronenbourg reactor  
**NTI** sur-100 series reactor  
**NTI** thetis reactor  
**NTI** thor reactor  
**NTI** toshiba reactor  
**NTI** tr-1 reactor  
**NTI** trico reactor  
**NTI** triga-1-michigan reactor  
**NTI** triga-2-pavia reactor  
**NTI** trr-1 reactor  
**NTI** ucbr reactor  
**NTI** ufr reactor  
**NTI** ulyse reactor  
**NTI** umne-1 reactor  
**NTI** umrr reactor  
**NTI** urr reactor  
**NTI** utr-10-kinki reactor  
**NTI** uvar reactor  
**NTI** uwnr reactor  
**NTI** uwtr reactor  
**NTI** vpi-utr-10 reactor  
**NTI** vr-1 reactor  
**NTI** wnt reactor  
**NTI** wpir reactor  
**NTI** wwr-s-budapest reactor  
**NTI** x-10 reactor  
**NTI** zlf reactor  
**NTI** zpr reactor

**training-research reactor kyoto**

*1993-11-10*

USE kur reactor

**TRAINS**

*1993-03-25*

**BT1** vehicles  
**NTI** levitated trains  
**NTI** locomotives  
*RT* electric railways  
*RT* occupants  
*RT* railroad cars  
*RT* railways  
*RT* rapid transit systems  
*RT* transportation systems

**TRAJECTORIES**

*RT* beam dynamics  
*RT* limit cycle  
*RT* motion  
*RT* orbits  
*RT* particle tracks

**TRAMEX PROCESS**

\***BT1** reprocessing  
*RT* amines  
*RT* solvent extraction

**TRANQUILIZERS**

*UF* promazine



- UF* *tranquillizers*  
 \*BT1 psychotropic drugs  
 NT1 chlorpromazine  
 NT1 reserpine  
 RT hypnotics and sedatives  
 RT phenothiazines

**tranquillizers**

- USE tranquilizers

**trans 104 element compounds**

1996-07-18

(Prior to March 2004 this was a valid descriptor.)

- USE transactinide compounds

**trans 104 elements**

(Prior to March 2004 this was a valid descriptor.)

- USE transactinide elements

**TRANSACTINIDE COMPOUNDS**

2004-03-12

(Prior to March 2004 ELEMENT 104 COMPOUNDS + TRANS 104 ELEMENT COMPOUNDS was used for these compounds.)

- UF* *trans 104 element compounds*

- \*BT1 transplutonium compounds

- NT1 bohrium compounds

- NT1 darmstadtium compounds

- NT1 dubnium compounds

- NT1 element 112 compounds

- NT1 element 113 compounds

- NT1 element 114 compounds

- NT1 hassium compounds

- NT1 roentgenium compounds

- NT1 rutherfordium compounds

- NT2 rutherfordium chlorides

- NT1 seaborgium compounds

**TRANSACTINIDE ELEMENTS**

2004-03-12

*Elements with Z > 103.*

(Prior to March 2004 ELEMENT 104 + TRANS 104 ELEMENTS was used for these elements.)

- UF* *superheavy elements*

- UF* *trans 104 elements*

- UF* *transactinides*

- \*BT1 transplutonium elements

- NT1 bohrium

- NT1 darmstadtium

- NT1 dubnium

- NT1 element 112

- NT1 element 113

- NT1 element 114

- NT1 element 115

- NT1 element 116

- NT1 element 117

- NT1 element 118

- NT1 element 119

- NT1 element 120

- NT1 element 126

- NT1 element 128

- NT1 element 134

- NT1 element 145

- NT1 element 164

- NT1 element 173

- NT1 hassium

- NT1 meitnerium

- NT1 roentgenium

- NT1 rutherfordium

- NT1 seaborgium

**transactinides**

2004-03-12

- USE transactinide elements

**transage 117**

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE titanium base alloys

**transage 120**

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE titanium base alloys

**transage 129**

2000-04-12

(Prior to May 2001, this was a valid ETDE descriptor.)

- USE titanium base alloys

- USE vanadium alloys

- USE zirconium alloys

**transage 134**

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE titanium base alloys

- USE vanadium alloys

- USE zirconium alloys

**transage 175**

INIS: 2000-04-12; ETDE: 1986-11-20

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE tin alloys

- USE titanium base alloys

- USE vanadium alloys

**transalaska pipeline**

INIS: 1992-06-04; ETDE: 1976-11-17

- USE alaska oil pipeline

**transaminases**

- USE aminotransferases

**transboundary pollution**

INIS: 2000-04-12; ETDE: 1980-03-29

- USE transfrontier pollution

**TRANSCRIPTION**

INIS: 1981-09-18; ETDE: 1976-06-07

*The formation of messenger RNA from DNA. The process of transmitting information in a gene into a messenger RNA molecule which can leave the cell nucleus and move to the site of protein synthesis.*

- RT dna polymerases

- RT dna replication

- RT gene regulation

- RT gene repressors

- RT genes

- RT messenger-rna

- RT microarray technology

- RT post-translation modification

- RT rna polymerases

- RT transcription factors

**TRANSCRIPTION FACTORS**

INIS: 1991-10-22; ETDE: 1988-06-27

*Proteins that govern which genes RNA polymerases can copy.*

- \*BT1 proteins

- RT gene regulation

- RT gene repressors

- RT nucleoproteins

- RT rna polymerases

- RT transcription

**TRANSDUCERS**

- RT electrical equipment

- RT measuring instruments

**transfer (angular momentum)**

INIS: 1978-09-28; ETDE: 2002-06-13

- USE angular momentum transfer

**transfer (electron)**

- USE electron transfer

**transfer (energy)**

- USE energy transfer

**transfer (environmental radionuclides)**

INIS: 1993-11-10; ETDE: 2002-06-13

- USE radionuclide migration

**transfer (four momentum)**

INIS: 1978-02-23; ETDE: 1978-04-28

- USE four momentum transfer

**transfer (heat)**

- USE heat transfer

**transfer (in environment)**

2000-04-12

- USE radionuclide migration

**transfer (in organism)**

2000-04-12

- USE radionuclide kinetics

**transfer (linear momentum)**

- USE linear momentum transfer

**transfer (mass)**

- USE mass transfer

**transfer (momentum)**

INIS: 1978-02-23; ETDE: 1978-11-14

- USE momentum transfer

**transfer (q-squared)**

INIS: 1978-02-23; ETDE: 1978-04-28

- USE four momentum transfer

**transfer (radionuclides in organisms)**

INIS: 1993-11-10; ETDE: 2002-06-13

- USE radionuclide kinetics

**transfer factors (biological)**

INIS: 1989-12-07; ETDE: 2002-06-13

- USE ecological concentration

**TRANSFER FUNCTIONS**

- BT1 functions

- RT reactor stability

- RT real time systems

**TRANSFER MATRIX METHOD**

- BT1 calculation methods

- RT cross sections

- RT mathematical operators

- RT neutron transport theory

**TRANSFER NUMBERS**

- RT electrophoresis

**transfer of knowledge**

INIS: 1977-11-21; ETDE: 2002-06-13

- USE technology transfer

**TRANSFER REACTIONS**

*For nuclear reactions only; see also CHARGE EXCHANGE and ELECTRON TRANSFER.*

- UF* *quasi-elastic reactions*

- \*BT1 direct reactions

- NT1 multi-nucleon transfer reactions

- NT2 four-nucleon transfer reactions

- NT3 alpha-transfer reactions

- NT2 many-nucleon transfer reactions

- NT2 three-nucleon transfer reactions

- NT2 two-nucleon transfer reactions

- NT1 one-nucleon transfer reactions

- NT1 pickup reactions

**NT1** stripping  
*RT* incomplete fusion reactions  
*RT* neutron transfer

**TRANSFER RNA**

\*BT1 rna

**TRANSFERASES**

*Code number 2.*

\*BT1 enzymes  
**NT1** carbon-group transferases  
**NT2** methyl transferases  
**NT1** glycosyl transferases  
**NT2** hexosyl transferases  
**NT2** pentosyl transferases  
**NT3** hypoxanthine phosphoribosyltransferase  
**NT1** nitrogen transferases  
**NT2** aminotransferases  
**NT1** phosphorus-group transferases  
**NT2** nucleotidyltransferases  
**NT3** polymerases  
**NT4** dna polymerases  
**NT4** rna polymerases  
**NT2** phosphotransferases  
**NT3** hexokinase

**TRANSFERRIN**

\*BT1 globulins-beta  
 \*BT1 metalloproteins

**TRANSFORMATIONS**

*UF translation (mathematics)*  
**NT1** baecklund transformation  
**NT1** canonical transformations  
**NT2** bogolyubov transformation  
**NT2** foldy-wouthuysen transform  
**NT1** galilei transformations  
**NT1** integral transformations  
**NT2** fourier transformation  
**NT2** hankel transform  
**NT2** hilbert transformation  
**NT2** laplace transformation  
**NT2** mellin transform  
**NT1** lorentz transformations  
**NT1** melosh transformation  
**NT1** orthogonal transformations  
**NT2** moshinsky transformation  
**NT1** topological mapping  
**NT2** conformal mapping

**transformations (oncogenic)**

*INIS: 1981-07-06; ETDE: 1981-08-04*  
 USE oncogenic transformations

**transformations (phase)**

*INIS: 2000-04-12; ETDE: 1980-11-08*  
 USE phase transformations

**transformer oils**

*INIS: 2000-04-12; ETDE: 1980-08-12*  
 USE insulating oils

**TRANSFORMERS**

\*BT1 electrical equipment  
**NT1** gas-insulated transformers  
*RT* dc to dc converters  
*RT* electric coils  
*RT* insulating oils

**TRANSFRONTIER CONTAMINATION**

*INIS: 1976-12-08; ETDE: 1978-03-08*  
*For radioactive contamination only; see also TRANSFRONTIER POLLUTION.*

**BT1** contamination  
*RT* bilateral agreements  
*RT* contamination regulations  
*RT* environmental transport  
*RT* radionuclide migration  
*RT* transfrontier pollution

**TRANSFRONTIER POLLUTION**

*INIS: 1976-12-08; ETDE: 1980-03-29*  
*For nonradioactive pollution only; for radioactive pollution use TRANSFRONTIER CONTAMINATION.*

*UF transboundary pollution*  
**BT1** pollution  
*RT* bilateral agreements  
*RT* long-range transport  
*RT* pollution laws  
*RT* pollution regulations  
*RT* transfrontier contamination

**TRANSFUSIONS**

\*BT1 therapy  
*RT* blood  
*RT* blood groups  
*RT* blood substitutes  
*RT* transplants

**TRANSGENIC ANIMALS**

*1992-03-02*  
**BT1** animals  
**NT1** transgenic mice

**TRANSGENIC MICE**

*1992-03-02*  
 \*BT1 mice  
 \*BT1 transgenic animals

**TRANSGENIC PLANTS**

*1996-04-16*  
*Coordinate with the appropriate descriptor to indicate the transgenic species, when given.*  
**BT1** plants

**transient experiment critical facility**

*INIS: 2001-09-25; ETDE: 2001-11-30*  
 USE tracy reactor

**transient nuclear test reactor-kiwi**

*2000-04-12*  
 USE kiwi-tnt reactor

**TRANSIENT OVERPOWER ACCIDENTS**

*INIS: 1979-09-18; ETDE: 1979-03-28*  
*Reactor accidents involving continuous ramp reactivity insertion with steady coolant flow but with loss of protection systems which results in fuel element failure.*  
*UF top accidents*  
 \*BT1 reactor accidents  
*RT* transients

**transient reactor test facility**

*1993-11-10*  
 USE treat reactor

**transient species**

*INIS: 2000-04-12; ETDE: 1979-08-07*  
 SEE reaction intermediates

**TRANSIENTS**

**NT1** electrical transients  
*RT* atws  
*RT* deep level transient spectroscopy  
*RT* overcurrent  
*RT* overvoltage  
*RT* peaks  
*RT* pressurization  
*RT* steady-state conditions  
*RT* sudden approximation  
*RT* surges  
*RT* temperature noise  
*RT* transient overpower accidents  
*RT* variations

**TRANSISTOR AMPLIFIERS**

\*BT1 amplifiers  
*RT* transistors

**TRANSISTOR OSCILLATORS**

\*BT1 oscillators  
*RT* pulse circuits  
*RT* transistors

**TRANSISTOR SWITCHING CIRCUITS**

\*BT1 switching circuits  
*RT* switching diodes

**TRANSISTOR TRIGGER CIRCUITS**

\*BT1 trigger circuits

**TRANSISTORS**

*UF diode transistors*  
**BT1** semiconductor devices  
**NT1** field effect transistors  
**NT2** mosfet  
**NT1** junction transistors  
**NT1** mis transistors  
**NT1** mos transistors  
**NT2** mosfet  
**NT1** phototransistors  
**NT1** surface barrier transistors  
*RT* electronic circuits  
*RT* transistor amplifiers  
*RT* transistor oscillators

**transit-time heating**

*INIS: 1984-04-04; ETDE: 2002-06-13*  
 USE transit-time magnetic pumping

**TRANSIT-TIME MAGNETIC PUMPING**

*Transit-time magnetic pumping heating.*  
*UF transit-time heating*  
*UF ttmp*  
 \*BT1 magnetic-pumping heating  
*RT* fast magnetoacoustic waves  
*RT* landau damping

**TRANSITION AMPLITUDES**

*INIS: 1975-12-09; ETDE: 1976-08-25*  
**BT1** amplitudes  
**NT1** decay amplitudes

**TRANSITION BOILING**

\*BT1 boiling

**TRANSITION ELEMENT ALLOYS**

*1995-10-11*  
 (From November 1983 until March 1992 this was indexed using the descriptors for the specific alloys or the broader term ALLOYS.)  
**BT1** alloys

**NT1** chromium alloys  
**NT2** alloy-b-1900  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-d-979  
**NT2** alloy-fe40ni35cr22  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802  
**NT2** alloy-in-102  
**NT2** alloy-khn50mbvyu  
**NT2** alloy-mar-m246  
**NT2** alloy-mn-21  
**NT2** alloy-mo-re-1  
**NT2** alloy-mp35n  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706

- NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni45fe34cr20  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy xr  
**NT2** alloy-ni50mo32cr15si3  
**NT2** alloy-ni51cr48  
**NT3** inconel 671  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni55co17cr15mo5al4ti4  
**NT3** astroloy  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni59cr30fe9  
**NT3** inconel 690  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni60fe24cr16  
**NT3** nichrome  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni61cr23fe14  
**NT2** alloy-ni62cr16mo15fe3  
**NT3** hastelloy s  
**NT2** alloy-ni65cr25mo10  
**NT3** nimonic 86  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni74cr13al6mo4  
**NT3** inconel 713c  
**NT2** alloy-ni75cr12al6mo5  
**NT3** inconel 713lc  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** alloy-ni76cr20ti2  
**NT3** nimonic 80a  
**NT2** alloy-ni77cr20ti2  
**NT2** alloy-ni78cr21  
**NT2** alloy-ni80cr20  
**NT2** alloy-ra-333  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-ti78cr11mo7al3  
**NT2** alloy-ti88mo8al3  
**NT2** alloy-ti91al5cr2  
**NT2** alloy-v-36  
**NT2** alloy-v87cr9fe3  
**NT2** ascology  
**NT2** chromium additions  
**NT3** alloy-ni65mo28fe5  
**NT4** hastelloy b  
**NT3** alloy-zr98sn-2  
**NT4** zircaloy 2  
**NT3** alloy-zr98sn-4  
**NT4** zircaloy 4  
**NT3** steel-crmo  
**NT3** steel-crni  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-ni3cr  
**NT3** steel-nicr  
**NT3** steel-nicrmo  
**NT3** steel-nimocr  
**NT2** chromium base alloys  
**NT3** alloy-mo-re-2  
**NT2** chromium-nickel steels  
**NT3** alloy-d-9  
**NT3** carpenter  
**NT3** chromium-nickel-molybdenum steels  
**NT4** alloy-m-813  
**NT4** steel-cr11ni10mo2ti-1  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr16ni9mo2  
**NT4** steel-cr17ni12mo3  
**NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-l  
**NT5** stainless steel-316l  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-ni26cr15ti2movalb  
**NT5** alloy-a-286  
**NT3** durco  
**NT3** enduro  
**NT3** stainless steel-17-7ph  
**NT3** stainless steel-303  
**NT3** stainless steel-329  
**NT3** stainless steel-ph-15-7-mo  
**NT3** steel-cr17ni13  
**NT3** steel-cr17ni7  
**NT4** stainless steel-301  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
**NT3** steel-cr18ni10-l  
**NT3** steel-cr18ni10ti  
**NT4** stainless steel-321  
**NT3** steel-cr18ni11  
**NT4** steel-x6crni1811  
**NT3** steel-cr18ni11nb  
**NT4** stainless steel-347  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT3** steel-cr18ni12  
**NT4** stainless steel-305  
**NT3** steel-cr18ni12ti  
**NT3** steel-cr18ni8  
**NT4** stainless steel-18-8  
**NT3** steel-cr18ni9  
**NT4** stainless steel-302  
**NT3** steel-cr18ni9ti  
**NT3** steel-cr19ni10  
**NT4** stainless steel-304  
**NT3** steel-cr19ni10-l  
**NT4** stainless steel-304l  
**NT3** steel-cr20ni11  
**NT4** stainless steel-308  
**NT3** steel-cr20ni11-l  
**NT4** stainless steel-308l  
**NT3** steel-cr23ni14  
**NT4** stainless steel-309  
**NT4** stainless steel-309s  
**NT3** steel-cr23ni18  
**NT3** steel-cr25ni20  
**NT4** alloy-hk-40  
**NT4** stainless steel-310  
**NT3** steel-ni25cr20  
**NT4** stainless steel-20-25  
**NT3** steel-ni36cr12ti3al-l  
**NT3** timken alloys  
**NT2** chromium steels  
**NT3** chromium-molybdenum steels  
**NT4** chromium-nickel-molybdenum steels  
**NT5** alloy-m-813  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni13mo3-l  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2movalb  
**NT6** alloy-a-286  
**NT3** magnet steel-ks  
**NT3** miduale  
**NT3** stainless steel-406  
**NT3** steel-cr10mo2  
**NT3** steel-cr12  
**NT4** stainless steel-403  
**NT3** steel-cr12moniv  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr13al  
**NT4** stainless steel-405  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr16ni  
**NT3** steel-cr17cu4ni4nb-l  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr18  
**NT3** steel-cr25  
**NT4** stainless steel-446  
**NT3** steel-cr9mo  
**NT3** steel-cr9monbv  
**NT2** colmonoy  
**NT2** discaloy  
**NT2** ge 2541  
**NT2** hoskins 875  
**NT2** illium  
**NT2** incoloy 901  
**NT2** kanthal  
**NT2** konel  
**NT2** magnesium alloy-zr  
**NT2** misco metal  
**NT2** ni-hard  
**NT2** ni-o-nel  
**NT2** microbraz 50  
**NT2** nimonic 115  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** sicromo 9m  
**NT2** steel-cd-4mco  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9  
**NT2** steel-cr2mo  
**NT3** steel-astm-a542  
**NT2** steel-cr2moninb  
**NT2** steel-cr2mov  
**NT2** steel-cr2nimov  
**NT2** steel-cr5mo  
**NT2** steel-cralnimo  
**NT2** steel-crmov

- NT2** steel-ni3crmo  
**NT3** steel-astm-a543  
**NT2** steel-ni3crmov  
**NT2** steel-ni4crw  
**NT2** supertherm  
**NT2** sweetalloy  
**NT2** td-nickel chromium  
**NT2** tophet  
**NT2** tribaloy 400  
**NT2** tribaloy 800  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**NT2** vitallium  
**NT1** cobalt alloys  
**NT2** alloy-b-1900  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe53ni29co18  
**NT3** kovar  
**NT2** alloy-mar-m246  
**NT2** alloy-mp35n  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni55co17cr15mo5al4ti4  
**NT3** astroloy  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni65mo28fe5  
**NT3** hastelloy b  
**NT2** alloy-ra-333  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** alloy-yundk 25ba  
**NT2** alnico alloys  
**NT2** carboloy  
**NT2** cobalt additions  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT2** cobalt base alloys  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-co50fe50  
**NT4** permendur  
**NT3** alloy-co52fe35v10  
**NT3** haynes alloys  
**NT4** alloy-co36cr22ni22w15fe3  
**NT5** haynes 188 alloy  
**NT4** alloy-co54cr20w15ni10  
**NT5** alloy-hs-25  
**NT5** haynes 25 alloy  
**NT4** alloy-co60cr30w4  
**NT5** stellite 6  
**NT3** mar-m509 alloys  
**NT3** stellite  
**NT4** alloy-co54cr20w15ni10  
**NT5** alloy-hs-25  
**NT5** haynes 25 alloy
- NT4** alloy-co60cr30w4  
**NT5** stellite 6  
**NT4** alloy-hs-31  
**NT3** tribaloy 400  
**NT3** tribaloy 800  
**NT2** cunico  
**NT2** hipercor  
**NT2** kanthal  
**NT2** konel  
**NT2** magnet steel-ks  
**NT2** nimonic 115  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** supertherm  
**NT2** timken alloys  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**NT2** vitallium  
**NT1** copper alloys  
**NT2** alloy-al95cu4  
**NT3** duralumin  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni66cu32  
**NT3** monel 400  
**NT2** alloy-yundk 25ba  
**NT2** bondur  
**NT2** copper additions  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** duranickel  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-crmov  
**NT3** steel-crni  
**NT3** steel-mncco  
**NT4** steel-astm-a537  
**NT3** steel-ni3cr  
**NT3** steel-ni4crw  
**NT3** steel-nicr  
**NT3** steel-nicrmo  
**NT2** copper base alloys  
**NT3** alloy-cu52ni47  
**NT4** constantan  
**NT3** alloy-cu70ni30  
**NT3** alloy-cu90ni10  
**NT3** brass  
**NT4** brass-alpha  
**NT4** brass-beta  
**NT3** bronze  
**NT3** heusler alloys  
**NT3** manganin  
**NT3** muntz metal  
**NT3** nickeline alloy  
**NT3** ounce metal  
**NT3** tungsten bronze  
**NT2** cunico  
**NT2** heddur  
**NT2** illium  
**NT2** lynite  
**NT2** magnalium  
**NT2** ni-o-nel  
**NT2** steel-cd-4mcu  
**NT2** steel-cr17cu4ni4nb-l  
**NT3** stainless steel-17-4ph  
**NT2** steel-in-787  
**NT2** zamak  
**NT1** gold alloys  
**NT2** gold additions  
**NT2** gold base alloys  
**NT3** palau  
**NT1** hafnium alloys  
**NT2** alloy-c-103  
**NT2** alloy-ta90w8hf
- NT3** tantalum alloy-t111  
**NT2** hafnium additions  
**NT3** astar 811c  
**NT2** hafnium base alloys  
**NT1** iron alloys  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-co52fe35v10  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-hs-31  
**NT2** alloy-in-102  
**NT2** alloy-khn50mbvyu  
**NT2** alloy-mo-re-1  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni45fe34cr20  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy xr  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni59cr30fe9  
**NT3** inconel 690  
**NT2** alloy-ni60fe24cr16  
**NT3** nichrome  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni61cr23fe14  
**NT2** alloy-ni62cr16mo15fe3  
**NT3** hastelloy s  
**NT2** alloy-ni66cu32  
**NT3** monel 400  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** alloy-ni77cr20ti2  
**NT2** alloy-ni78cr21  
**NT2** alloy-ni79fe16mo4  
**NT2** alloy-ra-333  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** alloy-v87cr9fe3  
**NT2** alloy-yundk 25ba  
**NT2** austenite  
**NT2** colmonoy  
**NT2** ferrite  
**NT2** incoloy 901  
**NT2** iron additions  
**NT3** alloy-al95cu4  
**NT4** duralumin  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni80cr20



- NT7 steel-cr18  
 NT7 steel-cr25  
 NT8 stainless steel-446  
 NT7 steel-cr9mo  
 NT7 steel-cr9monbv  
 NT6 low carbon-high alloy steels  
 NT7 steel-cr11ni10mo2ti-l  
 NT7 steel-cr17cu4ni4nb-l  
 NT8 stainless steel-17-4ph  
 NT7 steel-cr17ni12mo3-l  
 NT8 stainless steel-316l  
 NT8 stainless steel-zcnd17-13  
 NT7 steel-cr18ni10-l  
 NT7 steel-cr19ni10-l  
 NT8 stainless steel-304l  
 NT7 steel-cr20ni1-l  
 NT8 stainless steel-308l  
 NT7 steel-ni36cr12ti3al-l  
 NT6 stainless steel-317  
 NT6 stainless steel-318  
 NT6 stainless steel-422  
 NT6 stainless steel-fv-548  
 NT6 stainless steel-jbk-75  
 NT6 stainless steel m-50  
 NT6 steel-cr21mn9ni6  
 NT7 stainless steel-21-6-9  
 NT6 sweetalloy  
 NT4 low alloy steels  
 NT5 steel-astm-a350  
 NT5 steel-astm-a387  
 NT5 steel-astm-a508  
 NT5 steel-astm-a533  
 NT5 steel-cr2mo  
 NT6 steel-astm-a542  
 NT5 steel-cr2moninb  
 NT5 steel-cr2mov  
 NT5 steel-cr2nimov  
 NT5 steel-cr5mo  
 NT5 steel-cralnimo  
 NT5 steel-crmno  
 NT5 steel-crmov  
 NT5 steel-crni  
 NT5 steel-mncumo  
 NT6 steel-astm-a537  
 NT5 steel-mnmo  
 NT6 steel-astm-a302  
 NT5 steel-mnnimo  
 NT6 steel-astm-a533-b  
 NT5 steel-mnnimov  
 NT5 steel-ni3cr  
 NT5 steel-ni3crmo  
 NT6 steel-astm-a543  
 NT5 steel-ni3crmov  
 NT5 steel-ni4crw  
 NT5 steel-nicr  
 NT5 steel-nicrmo  
 NT5 steel-nimocr  
 NT4 manganese steels  
 NT4 martensitic steels  
 NT5 maraging steels  
 NT5 steel-cr10mo2  
 NT5 steel-cr12  
 NT6 stainless steel-403  
 NT5 steel-cr12mov  
 NT6 alloy-ht-9  
 NT5 steel-cr13  
 NT6 stainless steel-410  
 NT5 steel-cr16ni  
 NT5 steel-cr17cu4ni4nb-l  
 NT6 stainless steel-17-4ph  
 NT5 steel-cr17mo  
 NT6 stainless steel-440  
 NT5 steel-cr18  
 NT4 nickel steels  
 NT5 sweetalloy  
 NT4 steel-astm-a572  
 NT2 konel  
 NT2 lynite  
 NT2 martensite  
 NT2 misco metal  
 NT2 ni-hard  
 NT2 orthonol  
 NT2 permalloy  
 NT2 rene 41  
 NT2 supertherm  
 NT2 tribaloy 400  
 NT2 tribaloy 800  
 NT1 manganese alloys  
 NT2 alloy-co43cr20fe18ni13w3  
 NT3 havar  
 NT2 alloy-mo-re-1  
 NT2 alloy-ni73cr20mn3nb3  
 NT3 inconel 82  
 NT2 alloy-ni94mn3al2  
 NT3 alumul  
 NT2 alloy-s-816  
 NT2 heusler alloys  
 NT2 manganese additions  
 NT3 alloy-al95cu4  
 NT4 duralumin  
 NT3 alloy-fe40ni35cr22  
 NT3 alloy-fe53ni29co18  
 NT4 kovar  
 NT3 alloy-hs-31  
 NT3 alloy-n28t3  
 NT3 alloy-ni66cu32  
 NT4 monel 400  
 NT3 alloy-ni78cr21  
 NT3 alloy-v-36  
 NT3 ascoloy  
 NT3 bondur  
 NT3 discaloy  
 NT3 duranickel  
 NT3 duriron  
 NT3 magnesium alloy-az31b  
 NT3 miduale  
 NT3 ni-hard  
 NT3 steel-cr16ni9mo2  
 NT2 manganese base alloys  
 NT2 manganese steels  
 NT2 manganin  
 NT2 stainless steel-zcnd17-13  
 NT2 steel-cr21mn9ni6  
 NT3 stainless steel-21-6-9  
 NT2 steel-mncumo  
 NT3 steel-astm-a537  
 NT2 steel-mnmo  
 NT3 steel-astm-a302  
 NT2 steel-mnnimo  
 NT3 steel-astm-a533-b  
 NT2 steel-mnnimov  
 NT1 molybdenum alloys  
 NT2 alloy-b-1900  
 NT2 alloy-co43cr20fe18ni13w3  
 NT3 havar  
 NT2 alloy-d-979  
 NT2 alloy-in-102  
 NT2 alloy-khn50mbvyu  
 NT2 alloy-mar-m246  
 NT2 alloy-mn-21  
 NT2 alloy-mp35n  
 NT2 alloy-n-10m  
 NT2 alloy-n-9m  
 NT2 alloy-ni43fe30cr22mo3  
 NT3 incoloy 825  
 NT2 alloy-ni43fe33cr16mo3  
 NT3 nimonic pe16  
 NT2 alloy-ni49cr22fe18mo9  
 NT3 hastelloy x  
 NT2 alloy-ni50co20cr15al5mo5  
 NT3 nimonic 105  
 NT2 alloy-ni50cr22fe18mo9  
 NT3 hastelloy xr  
 NT2 alloy-ni50mo32cr15si3  
 NT2 alloy-ni53cr19fe19nb5mo3  
 NT3 inconel 718  
 NT2 alloy-ni54cr22co13mo9  
 NT3 inconel 617  
 NT2 alloy-ni54mo17cr16fe6w4  
 NT3 hastelloy c  
 NT2 alloy-ni55co17cr15mo5al4ti4  
 NT3 astroloy  
 NT2 alloy-ni55cr19co11mo10ti3  
 NT3 rene 41  
 NT2 alloy-ni58cr20co14mo4ti3  
 NT3 waspaloy  
 NT2 alloy-ni60co15cr10al6ti5mo3  
 NT3 alloy-in-100  
 NT2 alloy-ni61cr16co9al3ti3w3  
 NT3 alloy-in-738  
 NT2 alloy-ni61cr22mo9nb4fe3  
 NT3 inconel 625  
 NT2 alloy-ni62cr16mo15fe3  
 NT3 hastelloy s  
 NT2 alloy-ni65cr25mo10  
 NT3 nimonic 86  
 NT2 alloy-ni70mo17cr7fe5  
 NT3 hastelloy n  
 NT3 inor-8  
 NT2 alloy-ni74cr13al6mo4  
 NT3 inconel 713c  
 NT2 alloy-ni75cr12al6mo5  
 NT3 inconel 713lc  
 NT2 alloy-ni79fe16mo4  
 NT2 alloy-nx-188  
 NT2 alloy-ra-333  
 NT2 alloy-s-590  
 NT2 alloy-s-816  
 NT2 alloy-ti78cr11mo7al3  
 NT2 alloy-ti88mo8al3  
 NT2 alloy-ti89al6mo3  
 NT2 alloy-ti90al6mo3  
 NT2 alloy-ti90mo7al2  
 NT2 alloy-ti91al4mo3  
 NT2 alloy-ti91al5cr2  
 NT2 alloy-v-36  
 NT2 chlorimet  
 NT2 chromium-molybdenum steels  
 NT3 chromium-nickel-molybdenum steels  
 NT4 alloy-m-813  
 NT4 steel-cr11ni10mo2ti-l  
 NT4 steel-cr15ni15motib  
 NT4 steel-cr16ni13monbv  
 NT4 steel-cr16ni15mo3nb  
 NT4 steel-cr16ni16monb  
 NT4 steel-cr16ni8mo2  
 NT5 stainless steel-16-8-2  
 NT4 steel-cr16ni9mo2  
 NT4 steel-cr17ni12mo3  
 NT5 stainless steel-316  
 NT4 steel-cr17ni12mo3-l  
 NT5 stainless steel-316l  
 NT5 stainless steel-zcnd17-13  
 NT4 steel-cr17ni12monb  
 NT4 steel-cr17ni13mo2ti  
 NT4 steel-cr17ni13mo3ti  
 NT4 steel-ni26cr15ti2movalb  
 NT5 alloy-a-286  
 NT2 discaloy  
 NT2 illium  
 NT2 incoloy 901  
 NT2 molybdenum additions  
 NT3 alloy-ti90al6  
 NT3 steel-cr12moniv  
 NT3 steel-cr12mov  
 NT4 alloy-ht-9  
 NT3 steel-cr17mo  
 NT4 stainless steel-440  
 NT3 steel-cr2mo  
 NT4 steel-astm-a542  
 NT3 steel-cr2moninb  
 NT3 steel-cr2mov  
 NT3 steel-cr2nimov  
 NT3 steel-cr5mo  
 NT3 steel-cr9mo  
 NT3 steel-cralnimo

NT3	steel-crmo	NT4	steel-cr16ni15mo3nb	NT3	steel-crni
NT3	steel-crmov	NT4	steel-cr16ni16monb	NT3	steel-mncumo
NT3	steel-mncumo	NT4	steel-cr16ni8mo2	NT4	steel-astm-a537
NT4	steel-astm-a537	NT5	stainless steel-16-8-2	NT3	steel-mnnimo
NT3	steel-mnmo	NT4	steel-cr16ni9mo2	NT4	steel-astm-a533-b
NT4	steel-astm-a302	NT4	steel-cr17ni12mo3	NT3	steel-nimocr
NT3	steel-mnnimo	NT5	stainless steel-316	NT2	nickel base alloys
NT4	steel-astm-a533-b	NT4	steel-cr17ni12mo3-l	NT3	alloy-b-1900
NT3	steel-mnnimov	NT5	stainless steel-316l	NT3	alloy-in-102
NT3	steel-ni3crmo	NT5	stainless steel-zcnd17-13	NT3	alloy-in-853
NT4	steel-astm-a543	NT4	steel-cr17ni12monb	NT3	alloy-mar-m246
NT3	steel-ni3crmov	NT4	steel-cr17ni13mo2ti	NT3	alloy-mn-21
NT3	steel-nicrmo	NT4	steel-cr17ni13mo3ti	NT3	alloy-mo-re-2
NT3	steel-nimocr	NT4	steel-ni26cr15ti2movalb	NT3	alloy-ni43fe30cr22mo3
NT2	molybdenum base alloys	NT5	alloy-a-286	NT4	incoloy 825
NT3	alloy-mo99	NT3	durco	NT3	alloy-ni45fe34cr20
NT4	alloy-tzm	NT3	enduro	NT3	alloy-ni50mo32cr15si3
NT4	alloy-zm-2a	NT3	stainless steel-17-7ph	NT3	alloy-ni55co17cr15mo5al4ti4
NT3	alloy-mo99b	NT3	stainless steel-303	NT4	astroloy
NT2	ni-o-nel	NT3	stainless steel-329	NT3	alloy-ni55cr19co11mo10ti3
NT2	nimonic 115	NT3	stainless steel-ph-15-7-mo	NT4	rene 41
NT2	rene-100	NT3	steel-cr17ni13	NT3	alloy-ni58cr20co14mo4ti3
NT2	rene 80	NT3	steel-cr17ni7	NT4	waspaloy
NT2	rene 95	NT4	stainless steel-301	NT3	alloy-ni77cr20ti2
NT2	sicromo 9m	NT3	steel-cr18ni10	NT3	alloy-ni78cr21
NT2	stainless steel m-50	NT4	stainless steel-18-10	NT3	alloy-ni79fe16mo4
NT2	steel-cd-4mcu	NT3	steel-cr18ni10-l	NT3	alloy-ni94mn3al2
NT2	steel-cr10mo2	NT3	steel-cr18ni10ti	NT4	alumel
NT2	steel-cr17ni4mo3	NT4	stainless steel-321	NT3	alloy-nx-188
NT2	steel-cr9monbv	NT3	steel-cr18ni11	NT3	alloy-ra-333
NT2	steel-in-787	NT4	steel-x6crni1811	NT3	chlorimet
NT2	timken alloys	NT3	steel-cr18ni11nb	NT3	chromel
NT2	tribaloy 400	NT4	stainless steel-347	NT4	alloy-ni60fe24cr16
NT2	tribaloy 800	NT3	steel-cr18ni11nbco	NT5	nichrome
NT2	udimet alloys	NT4	stainless steel-348	NT4	alloy-ni80cr20
NT3	alloy-ni53co19cr15mo5al4ti3	NT3	steel-cr18ni12	NT3	colmonoy
NT4	udimet 700	NT4	stainless steel-305	NT3	duranickel
NT3	udimet 500	NT3	steel-cr18ni12ti	NT3	hastelloys
NT2	vitallium	NT3	steel-cr18ni8	NT4	alloy-ni49cr22fe18mo9
NT1	nickel alloys	NT4	stainless steel-18-8	NT5	hastelloy x
NT2	alloy-co36cr22ni22w15fe3	NT3	steel-cr18ni9	NT4	alloy-ni50cr22fe18mo9
NT3	haynes 188 alloy	NT4	stainless steel-302	NT5	hastelloy xr
NT2	alloy-co43cr20fe18ni13w3	NT3	steel-cr18ni9ti	NT4	alloy-ni54mo17cr16fe6w4
NT3	havar	NT3	steel-cr19ni10	NT5	hastelloy c
NT2	alloy-co54cr20w15ni10	NT4	stainless steel-304	NT4	alloy-ni62cr16mo15fe3
NT3	alloy-hs-25	NT3	steel-cr19ni10-l	NT5	hastelloy s
NT3	haynes 25 alloy	NT4	stainless steel-304l	NT4	alloy-ni65mo28fe5
NT2	alloy-co60cr30w4	NT3	steel-cr20ni11	NT5	hastelloy b
NT3	stellite 6	NT4	stainless steel-308	NT4	alloy-ni70mo17cr7fe5
NT2	alloy-cu52ni47	NT3	steel-cr20ni11-l	NT5	hastelloy n
NT3	constantan	NT4	stainless steel-308l	NT5	inor-8
NT2	alloy-d-979	NT3	steel-cr23ni14	NT3	illium
NT2	alloy-fe40ni35cr22	NT4	stainless steel-309	NT3	incoloy 901
NT2	alloy-fe44ni33cr21	NT4	stainless steel-309s	NT3	inconel alloys
NT3	incoloy 800h	NT3	steel-cr23ni18	NT4	alloy-ni41fe40cr16nb3
NT2	alloy-fe46ni33cr21	NT3	steel-cr25ni20	NT5	inconel 706
NT3	incoloy 800	NT4	alloy-hk-40	NT4	alloy-ni46cr23co19ti5al4
NT3	incoloy 802	NT4	stainless steel-310	NT5	alloy-in-939
NT2	alloy-fe53ni29co18	NT3	steel-ni25cr20	NT4	alloy-ni51cr48
NT3	kovar	NT4	stainless steel-20-25	NT5	inconel 671
NT2	alloy-hs-31	NT3	steel-ni36cr12ti3al-l	NT4	alloy-ni53cr19fe19nb5mo3
NT2	alloy-mo-re-1	NT3	timken alloys	NT5	inconel 718
NT2	alloy-mp35n	NT2	cunico	NT4	alloy-ni54cr22co13mo9
NT2	alloy-n28t3	NT2	discaloy	NT5	inconel 617
NT2	alloy-s-590	NT2	invar	NT4	alloy-ni59cr30fe9
NT2	alloy-s-816	NT2	manganin	NT5	inconel 690
NT2	alloy-v-36	NT2	misco metal	NT4	alloy-ni60co15cr10al6ti5mo3
NT2	alloy-yundk 25ba	NT2	ni-hard	NT5	alloy-in-100
NT2	alnico alloys	NT2	ni-o-nel	NT4	alloy-ni61cr16co9al3ti3w3
NT2	ascaloy	NT2	nickel additions	NT5	alloy-in-738
NT2	chromium-nickel steels	NT3	alloy-zr98sn-2	NT4	alloy-ni61cr22mo9nb4fe3
NT3	alloy-d-9	NT4	zircaloy 2	NT5	inconel 625
NT3	carpenter	NT3	ounce metal	NT4	alloy-ni61cr23fe14
NT3	chromium-nickel-molybdenum steels	NT3	steel-cr12moniv	NT4	alloy-ni73cr15fe7ti3
NT4	alloy-m-813	NT3	steel-cr2moninb	NT5	inconel x750
NT4	steel-cr11ni10mo2ti-l	NT3	steel-cr2mov	NT4	alloy-ni73cr20mn3nb3
NT4	steel-cr15ni15motib	NT3	steel-cralnimo	NT5	inconel 82
NT4	steel-cr16ni13monbv	NT3	steel-crmo	NT4	alloy-ni74cr13al6mo4
		NT3	steel-crmov	NT5	inconel 713c

- NT4** alloy-ni75cr12al6mo5  
**NT5** inconel 713lc  
**NT4** alloy-ni76cr15fe8  
**NT5** inconel 600  
**NT4** inconel 700  
**NT4** inconel 738  
**NT4** inconel 739  
**NT3** konel  
**NT3** monel  
**NT4** alloy-ni66cu32  
**NT5** monel 400  
**NT3** microbraz 50  
**NT3** nimonic  
**NT4** alloy-ni43fe33cr16mo3  
**NT5** nimonic pe16  
**NT4** alloy-ni50co20cr15al5mo5  
**NT5** nimonic 105  
**NT4** alloy-ni59cr20co17ti2  
**NT4** alloy-ni65cr25mo10  
**NT5** nimonic 86  
**NT4** alloy-ni76cr15fe8  
**NT5** inconel 600  
**NT4** alloy-ni76cr20ti2  
**NT5** nimonic 80a  
**NT4** nimonic 115  
**NT4** nimonic 115a  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** td-nickel chromium  
**NT3** tophet  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT2** nickel steels  
**NT3** sweetalloy  
**NT2** nickeline alloy  
**NT2** orthonol  
**NT2** permalloy  
**NT2** stainless steel-jbk-75  
**NT2** steel-cd-4mcu  
**NT2** steel-cr16ni  
**NT2** steel-cr17cu4ni4nb-l  
**NT3** stainless steel-17-4ph  
**NT2** steel-cr17ni4mo3  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9  
**NT2** steel-cr2nimov  
**NT2** steel-in-787  
**NT2** steel-mnnimov  
**NT2** steel-ni3cr  
**NT2** steel-ni3crmo  
**NT3** steel-astm-a543  
**NT2** steel-ni3crmov  
**NT2** steel-ni4crw  
**NT2** steel-nicr  
**NT2** steel-nicrmo  
**NT2** supertherm  
**NT1** niobium alloys  
**NT2** alloy-in-102  
**NT2** alloy-khn50mbvyu  
**NT2** alloy-mn-21  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni74cr13al6mo4  
**NT3** inconel 713c  
**NT2** alloy-ni75cr12al6mo5  
**NT3** inconel 713lc  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-u90nb7zr3  
**NT2** alloy-v-36  
**NT2** alloy-zr97nb3  
**NT2** niobium additions  
**NT3** alloy-ni45fe34cr20  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-yundk 25ba  
**NT3** steel-cr16ni13monbv  
**NT3** steel-cr16ni15mo3nb  
**NT3** steel-cr16ni16monb  
**NT3** steel-cr17cu4ni4nb-l  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17ni12monb  
**NT3** steel-cr18ni11nb  
**NT4** stainless steel-347  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT3** steel-cr2moninb  
**NT3** steel-cr9monbv  
**NT2** niobium base alloys  
**NT3** alloy-c-103  
**NT3** alloy-n-10m  
**NT3** alloy-n-9m  
**NT3** alloy-nt25a5  
**NT2** rene 95  
**NT2** steel-in-787  
**NT1** platinum metal alloys  
**NT2** iridium alloys  
**NT3** iridium additions  
**NT3** iridium base alloys  
**NT2** osmium alloys  
**NT3** osmium additions  
**NT3** osmium base alloys  
**NT2** palladium alloys  
**NT3** palau  
**NT3** palladium base alloys  
**NT2** platinum alloys  
**NT3** platinum base alloys  
**NT2** rhodium alloys  
**NT3** rhodium additions  
**NT3** rhodium base alloys  
**NT2** ruthenium alloys  
**NT3** ruthenium additions  
**NT3** ruthenium base alloys  
**NT1** rhenium alloys  
**NT2** rhenium additions  
**NT2** rhenium base alloys  
**NT1** scandium alloys  
**NT2** scandium additions  
**NT2** scandium base alloys  
**NT1** silver alloys  
**NT2** silver additions  
**NT2** silver base alloys  
**NT1** tantalum alloys  
**NT2** alloy-b-1900  
**NT2** alloy-c-103  
**NT2** alloy-mar-m246  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** carboloy  
**NT2** tantalum additions  
**NT3** alloy-n-10m  
**NT2** tantalum base alloys  
**NT3** alloy-ta90w8hf  
**NT4** tantalum alloy-t111  
**NT3** astar 811c  
**NT3** tantalum alloy-t222  
**NT1** technetium alloys  
**NT2** technetium additions  
**NT2** technetium base alloys  
**NT1** titanium alloys  
**NT2** alloy-b-1900  
**NT2** alloy-c-103  
**NT2** alloy-d-979  
**NT2** alloy-in-853  
**NT2** alloy-m-813  
**NT2** alloy-mar-m246  
**NT2** alloy-n-28ti3  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni55co17cr15mo5al4ti4  
**NT3** astroloy  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni76cr20ti2  
**NT3** nimonic 80a  
**NT2** alloy-ni77cr20ti2  
**NT2** alloy-nt25a5  
**NT2** carboloy  
**NT2** discaloy  
**NT2** incoloy 901  
**NT2** konel  
**NT2** ni-o-nel  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** stainless steel-jbk-75  
**NT2** steel-cr11ni10mo2ti-l  
**NT2** steel-ni26cr15ti2movalb  
**NT3** alloy-a-286  
**NT2** steel-ni36cr12ti3al-l  
**NT2** titanium additions  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe46ni33cr21  
**NT4** incoloy 800  
**NT4** incoloy 802  
**NT3** alloy-in-102  
**NT3** alloy-mo99  
**NT4** alloy-tzm  
**NT4** alloy-zm-2a  
**NT3** alloy-n-10m  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni51cr48  
**NT4** inconel 671  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** alloy-ni78cr21  
**NT3** duranickel  
**NT3** steel-cr15ni15motib



NT3 steel-cr17ni13mo2ti  
 NT3 steel-cr17ni13mo3ti  
 NT3 steel-cr18ni10ti  
 NT4 stainless steel-321  
 NT3 steel-cr18ni12ti  
 NT3 steel-cr18ni9ti  
 NT2 titanium base alloys  
 NT3 alloy-ti78cr11mo7al3  
 NT3 alloy-ti88mo8al3  
 NT3 alloy-ti89al6mo3  
 NT3 alloy-ti90al6  
 NT3 alloy-ti90al6mo3  
 NT3 alloy-ti90al6v4  
 NT3 alloy-ti90mo7al2  
 NT3 alloy-ti91al4mo3  
 NT3 alloy-ti91al5cr2  
 NT3 alloy-ti99  
 NT2 udimet alloys  
 NT3 alloy-ni53co19cr15mo5al4ti3  
 NT4 udimet 700  
 NT3 udimet 500  
 NT1 tungsten alloys  
 NT2 alloy-c-103  
 NT2 alloy-co36cr22ni22w15fe3  
 NT3 haynes 188 alloy  
 NT2 alloy-co43cr20fe18ni13w3  
 NT3 havar  
 NT2 alloy-co54cr20w15ni10  
 NT3 alloy-hs-25  
 NT3 haynes 25 alloy  
 NT2 alloy-co60cr30w4  
 NT3 stellite 6  
 NT2 alloy-d-979  
 NT2 alloy-in-102  
 NT2 alloy-khn50mbvyu  
 NT2 alloy-mar-m246  
 NT2 alloy-mn-21  
 NT2 alloy-mo-re-1  
 NT2 alloy-ni54mo17cr16fe6w4  
 NT3 hastelloy c  
 NT2 alloy-ni61cr16co9al3ti3w3  
 NT3 alloy-in-738  
 NT2 alloy-ra-333  
 NT2 alloy-s-590  
 NT2 alloy-s-816  
 NT2 alloy-ta90w8hf  
 NT3 tantalum alloy-tl11  
 NT2 alloy-v-36  
 NT2 astar 811c  
 NT2 carboloy  
 NT2 magnet steel-ks  
 NT2 miduale  
 NT2 rene 80  
 NT2 rene 95  
 NT2 supertherm  
 NT2 tungsten additions  
 NT3 alloy-ni49cr22fe18mo9  
 NT4 hastelloy x  
 NT3 alloy-ni50cr22fe18mo9  
 NT4 hastelloy xr  
 NT3 alloy-ni62cr16mo15fe3  
 NT4 hastelloy s  
 NT3 steel-ni4crw  
 NT2 tungsten base alloys  
 NT3 alloy-mo-re-2  
 NT2 tungsten bronze  
 NT2 udimet 500  
 NT1 vanadium alloys  
 NT2 alloy-co52fe35v10  
 NT2 alloy-ti90al6v4  
 NT2 alloy-ti91al4mo3  
 NT2 vanadium additions  
 NT3 alloy-ni54mo17cr16fe6w4  
 NT4 hastelloy c  
 NT3 alloy-ni60co15cr10al6ti5mo3  
 NT4 alloy-in-100  
 NT3 alloy-ni62cr16mo15fe3  
 NT4 hastelloy s  
 NT3 alloy-ni65mo28fe5

NT4 hastelloy b  
 NT3 alloy-ti90al6  
 NT3 steel-cr12moniv  
 NT3 steel-cr12mov  
 NT4 alloy-ht-9  
 NT3 steel-cr16ni13monbv  
 NT3 steel-cr2mov  
 NT3 steel-cr2nimov  
 NT3 steel-cr9monbv  
 NT3 steel-crmov  
 NT3 steel-mnnimov  
 NT3 steel-ni26cr15ti2movalb  
 NT4 alloy-a-286  
 NT3 steel-ni3crmo  
 NT4 steel-astm-a543  
 NT3 steel-ni3crmov  
 NT2 vanadium base alloys  
 NT3 alloy-v87cr9fe3  
 NT1 yttrium alloys  
 NT2 alloy-c-103  
 NT2 ge 2541  
 NT2 yttrium base alloys  
 NT1 zirconium alloys  
 NT2 alloy-c-103  
 NT2 alloy-ti89al6mo3  
 NT2 alloy-ti90al6  
 NT2 alloy-u90nb7zr3  
 NT2 alloy-v87cr9fe3  
 NT2 zirconium additions  
 NT3 alloy-in-102  
 NT3 alloy-mo99  
 NT4 alloy-tzm  
 NT4 alloy-zm-2a  
 NT3 alloy-mo99b  
 NT3 alloy-n-10m  
 NT3 alloy-n-9m  
 NT3 alloy-ni43fe33cr16mo3  
 NT4 nimonic pe16  
 NT3 alloy-ni46cr23co19ti5al4  
 NT4 alloy-in-939  
 NT3 alloy-ni55co17cr15mo5al4ti4  
 NT4 astroloy  
 NT3 alloy-ni58cr20co14mo4ti3  
 NT4 waspaloy  
 NT3 alloy-ni59cr20co17ti2  
 NT3 alloy-ni60co15cr10al6ti5mo3  
 NT4 alloy-in-100  
 NT3 alloy-ni61cr16co9al3ti3w3  
 NT4 alloy-in-738  
 NT3 alloy-ni74cr13al6mo4  
 NT4 inconel 713c  
 NT3 alloy-ni75cr12al6mo5  
 NT4 inconel 713lc  
 NT3 alloy-ni76cr20ti2  
 NT4 nimonic 80a  
 NT3 magnesium alloy-ek  
 NT3 magnesium alloy-ez  
 NT3 magnesium alloy-hk31a  
 NT3 rene 80  
 NT3 rene 95  
 NT2 zirconium base alloys  
 NT3 alloy-zr97nb3  
 NT3 zircaloy  
 NT4 alloy-zr98sn-2  
 NT5 zircaloy 2  
 NT4 alloy-zr98sn-4  
 NT5 zircaloy 4

#### TRANSITION ELEMENT COMPLEXES

BT1 complexes  
 NT1 chromium complexes  
 NT1 cobalt complexes  
 NT1 copper complexes  
 NT2 ceruloplasmin  
 NT1 gold complexes  
 NT1 hafnium complexes  
 NT1 iridium complexes  
 NT1 iron complexes

NT2 ferricyanides  
 NT2 ferritin  
 NT2 ferrocene  
 NT2 ferrocyanides  
 NT1 manganese complexes  
 NT1 molybdenum complexes  
 NT1 nickel complexes  
 NT1 niobium complexes  
 NT1 osmium complexes  
 NT1 palladium complexes  
 NT1 platinum complexes  
 NT1 rhenium complexes  
 NT1 rhodium complexes  
 NT1 ruthenium complexes  
 NT1 scandium complexes  
 NT1 silver complexes  
 NT1 tantalum complexes  
 NT1 technetium complexes  
 NT1 titanium complexes  
 NT1 tungsten complexes  
 NT1 vanadium complexes  
 NT1 yttrium complexes  
 NT1 zirconium complexes

#### TRANSITION ELEMENT COMPOUNDS

UF group *iva* metal compounds  
 UF group *va* metal compounds  
 UF group *via* metal compounds  
 NT1 chromium compounds  
 NT2 chromates  
 NT2 chromic acid  
 NT2 chromites  
 NT2 chromium borides  
 NT2 chromium bromides  
 NT2 chromium carbides  
 NT2 chromium chlorides  
 NT2 chromium fluorides  
 NT2 chromium hydrides  
 NT2 chromium hydroxides  
 NT2 chromium iodides  
 NT2 chromium nitrates  
 NT2 chromium nitrides  
 NT2 chromium oxides  
 NT2 chromium perchlorates  
 NT2 chromium phosphates  
 NT2 chromium selenides  
 NT2 chromium silicates  
 NT2 chromium silicides  
 NT2 chromium sulfates  
 NT2 chromium sulfides  
 NT2 chromium tellurides  
 NT2 dichromates  
 NT1 cobalt compounds  
 NT2 cobalt arsenides  
 NT2 cobalt borides  
 NT2 cobalt bromides  
 NT2 cobalt carbides  
 NT2 cobalt carbonates  
 NT2 cobalt chlorides  
 NT2 cobalt fluorides  
 NT2 cobalt hydrides  
 NT2 cobalt hydroxides  
 NT2 cobalt iodides  
 NT2 cobalt nitrates  
 NT2 cobalt oxides  
 NT2 cobalt perchlorates  
 NT2 cobalt phosphates  
 NT2 cobalt phosphides  
 NT2 cobalt selenides  
 NT2 cobalt silicates  
 NT2 cobalt silicides  
 NT2 cobalt sulfates  
 NT2 cobalt sulfides  
 NT2 cobalt tellurides  
 NT2 cobalt tungstates  
 NT1 copper compounds  
 NT2 copper arsenides  
 NT2 copper borides

NT2	copper carbides	NT2	iron hydroxides	NT2	nickel iodides
NT2	copper carbonates	NT2	iron iodides	NT2	nickel nitrates
NT2	copper halides	NT2	iron nitrates	NT2	nickel nitrides
NT3	copper bromides	NT2	iron nitrides	NT2	nickel oxides
NT3	copper chlorides	NT2	iron oxides	NT2	nickel phosphates
NT3	copper fluorides	NT2	iron perchlorates	NT2	nickel phosphides
NT3	copper iodides	NT2	iron phosphates	NT2	nickel selenides
NT2	copper hydrides	NT2	iron phosphides	NT2	nickel silicates
NT2	copper hydroxides	NT2	iron selenides	NT2	nickel silicides
NT2	copper nitrates	NT2	iron silicates	NT2	nickel sulfates
NT2	copper nitrides	NT2	iron silicides	NT2	nickel sulfides
NT2	copper oxides	NT2	iron sulfates	NT2	nickel tellurides
NT2	copper perchlorates	NT2	iron sulfides	NT2	nickel tungstates
NT2	copper phosphates	NT2	iron tellurides	NT2	nickelates
NT2	copper phosphides	NT2	iron tungstates	NT1	niobium compounds
NT2	copper selenides	NT1	manganese compounds	NT2	niobates
NT2	copper silicates	NT2	manganates	NT2	niobium arsenides
NT2	copper silicides	NT2	manganese arsenides	NT2	niobium borides
NT2	copper sulfates	NT2	manganese borides	NT2	niobium bromides
NT2	copper sulfides	NT2	manganese carbides	NT2	niobium carbides
NT2	copper tellurides	NT2	manganese carbonates	NT2	niobium chlorides
NT2	copper tungstates	NT2	manganese halides	NT2	niobium fluorides
NT2	cuprates	NT3	manganese bromides	NT2	niobium hydrides
NT1	gold compounds	NT3	manganese chlorides	NT2	niobium hydroxides
NT2	gold bromides	NT3	manganese fluorides	NT2	niobium iodides
NT2	gold chlorides	NT3	manganese iodides	NT2	niobium nitrates
NT2	gold fluorides	NT2	manganese hydrides	NT2	niobium nitrides
NT2	gold hydrides	NT2	manganese hydroxides	NT2	niobium oxides
NT2	gold iodides	NT2	manganese nitrates	NT2	niobium phosphates
NT2	gold oxides	NT2	manganese nitrides	NT2	niobium phosphides
NT2	gold silicides	NT2	manganese oxides	NT2	niobium selenides
NT2	gold tellurides	NT2	manganese perchlorates	NT2	niobium silicates
NT1	hafnium compounds	NT2	manganese phosphates	NT2	niobium silicides
NT2	hafnates	NT2	manganese phosphides	NT2	niobium sulfates
NT2	hafnium arsenides	NT2	manganese selenides	NT2	niobium sulfides
NT2	hafnium borides	NT2	manganese silicates	NT2	niobium tellurides
NT2	hafnium bromides	NT2	manganese silicides	NT1	osmium compounds
NT2	hafnium carbides	NT2	manganese sulfates	NT2	osmium borides
NT2	hafnium chlorides	NT2	manganese sulfides	NT2	osmium carbides
NT2	hafnium fluorides	NT2	manganese tellurides	NT2	osmium chlorides
NT2	hafnium hydrides	NT2	manganese tungstates	NT2	osmium fluorides
NT2	hafnium hydroxides	NT2	permanganates	NT2	osmium oxides
NT2	hafnium iodides	NT1	molybdenum compounds	NT2	osmium phosphides
NT2	hafnium nitrates	NT2	molybdates	NT2	osmium sulfates
NT2	hafnium nitrides	NT2	molybdenum arsenides	NT2	osmium sulfides
NT2	hafnium oxides	NT2	molybdenum borides	NT1	palladium compounds
NT2	hafnium perchlorates	NT2	molybdenum bromides	NT2	palladium arsenides
NT2	hafnium phosphates	NT2	molybdenum carbides	NT2	palladium borides
NT2	hafnium phosphides	NT2	molybdenum carbonates	NT2	palladium bromides
NT2	hafnium selenides	NT2	molybdenum chlorides	NT2	palladium carbides
NT2	hafnium silicates	NT2	molybdenum fluorides	NT2	palladium chlorides
NT2	hafnium silicides	NT2	molybdenum hydrides	NT2	palladium fluorides
NT2	hafnium sulfates	NT2	molybdenum hydroxides	NT2	palladium hydrides
NT2	hafnium sulfides	NT2	molybdenum iodides	NT2	palladium hydroxides
NT2	hafnium tellurides	NT2	molybdenum nitrates	NT2	palladium iodides
NT2	hafnium tungstates	NT2	molybdenum nitrides	NT2	palladium nitrates
NT1	iridium compounds	NT2	molybdenum oxides	NT2	palladium nitrides
NT2	iridium borides	NT3	molybdenum blue	NT2	palladium oxides
NT2	iridium carbides	NT2	molybdenum phosphates	NT2	palladium phosphides
NT2	iridium chlorides	NT2	molybdenum phosphides	NT2	palladium selenides
NT2	iridium fluorides	NT2	molybdenum selenides	NT2	palladium silicides
NT2	iridium hydrides	NT2	molybdenum silicates	NT2	palladium sulfides
NT2	iridium oxides	NT2	molybdenum silicides	NT2	palladium tellurides
NT2	iridium silicides	NT2	molybdenum sulfates	NT1	platinum compounds
NT2	iridium sulfates	NT2	molybdenum sulfides	NT2	platinum arsenides
NT2	iridium tellurides	NT2	molybdenum tellurides	NT2	platinum bromides
NT1	iron compounds	NT2	molybdenum acid	NT2	platinum carbides
NT2	ferrates	NT2	molybdophosphates	NT2	platinum chlorides
NT2	ferrites	NT2	molybdophosphoric acid	NT2	platinum fluorides
NT2	iron arsenides	NT1	nickel compounds	NT2	platinum hydrides
NT2	iron borides	NT2	nickel arsenides	NT2	platinum hydroxides
NT2	iron bromides	NT2	nickel borides	NT2	platinum iodides
NT2	iron carbides	NT2	nickel bromides	NT2	platinum oxides
NT3	cementite	NT2	nickel carbides	NT2	platinum phosphides
NT3	ni-hard	NT2	nickel carbonates	NT2	platinum silicides
NT2	iron carbonates	NT2	nickel chlorides	NT2	platinum sulfates
NT2	iron chlorides	NT2	nickel fluorides	NT2	platinum sulfides
NT2	iron fluorides	NT2	nickel hydrides	NT2	platinum tellurides
NT2	iron hydrides	NT2	nickel hydroxides	NT1	rhenium compounds

NT2	perrhenates	NT2	silver chlorides	NT2	tungstates
NT2	rhenates	NT2	silver fluorides	NT3	aluminium tungstates
NT2	rhenium borides	NT2	silver hydrides	NT3	ammonium tungstates
NT2	rhenium carbides	NT2	silver hydroxides	NT3	barium tungstates
NT2	rhenium carbonates	NT2	silver iodides	NT3	bismuth tungstates
NT2	rhenium halides	NT2	silver nitrates	NT3	cadmium tungstates
NT3	rhenium bromides	NT2	silver nitrides	NT3	calcium tungstates
NT3	rhenium chlorides	NT2	silver oxides	NT3	cerium tungstates
NT3	rhenium fluorides	NT2	silver perchlorates	NT3	cesium tungstates
NT3	rhenium iodides	NT2	silver phosphates	NT3	cobalt tungstates
NT2	rhenium hydrides	NT2	silver selenides	NT3	copper tungstates
NT2	rhenium hydroxides	NT2	silver sulfates	NT3	dysprosium tungstates
NT2	rhenium nitrides	NT2	silver sulfides	NT3	erbium tungstates
NT2	rhenium oxides	NT2	silver tellurides	NT3	gadolinium tungstates
NT2	rhenium selenides	NT2	silver tungstates	NT3	hafnium tungstates
NT2	rhenium silicides	NT1	tantalum compounds	NT3	indium tungstates
NT2	rhenium sulfates	NT2	tantalates	NT3	iron tungstates
NT2	rhenium sulfides	NT2	tantalum borides	NT3	lanthanum tungstates
NT2	rhenium tellurides	NT2	tantalum bromides	NT3	lead tungstates
NT1	rhodium compounds	NT2	tantalum carbides	NT3	lithium tungstates
NT2	rhodium borides	NT2	tantalum chlorides	NT3	lutetium tungstates
NT2	rhodium bromides	NT2	tantalum fluorides	NT3	manganese tungstates
NT2	rhodium carbides	NT2	tantalum hydrides	NT3	neodymium tungstates
NT2	rhodium chlorides	NT2	tantalum hydroxides	NT3	nickel tungstates
NT2	rhodium fluorides	NT2	tantalum iodides	NT3	potassium tungstates
NT2	rhodium hydrides	NT2	tantalum nitrides	NT3	praseodymium tungstates
NT2	rhodium hydroxides	NT2	tantalum oxides	NT3	rubidium tungstates
NT2	rhodium nitrides	NT2	tantalum phosphates	NT3	samarium tungstates
NT2	rhodium oxides	NT2	tantalum phosphides	NT3	scandium tungstates
NT2	rhodium phosphides	NT2	tantalum selenides	NT3	silver tungstates
NT2	rhodium selenides	NT2	tantalum silicates	NT3	sodium tungstates
NT2	rhodium silicides	NT2	tantalum silicides	NT3	strontium tungstates
NT2	rhodium sulfides	NT2	tantalum sulfates	NT3	tantalum tungstates
NT2	rhodium tellurides	NT2	tantalum sulfides	NT3	thallium tungstates
NT1	ruthenium compounds	NT2	tantalum tellurides	NT3	thorium tungstates
NT2	ruthenium arsenides	NT2	tantalum tungstates	NT3	tin tungstates
NT2	ruthenium borides	NT1	technetium compounds	NT3	titanium tungstates
NT2	ruthenium bromides	NT2	pertechnates	NT3	uranium tungstates
NT2	ruthenium carbides	NT2	technetates	NT3	uranyl tungstates
NT2	ruthenium chlorides	NT2	technetium bromides	NT3	vanadium tungstates
NT2	ruthenium fluorides	NT2	technetium carbides	NT3	ytterbium tungstates
NT2	ruthenium hydroxides	NT2	technetium chlorides	NT3	yttrium tungstates
NT2	ruthenium hydroxides	NT2	technetium fluorides	NT3	zinc tungstates
NT2	ruthenium nitrates	NT2	technetium hydrides	NT3	zirconium tungstates
NT2	ruthenium nitrides	NT2	technetium iodides	NT2	tungsten borides
NT2	ruthenium nitrosyls	NT2	technetium oxides	NT2	tungsten bromides
NT2	ruthenium oxides	NT2	technetium phosphates	NT2	tungsten carbides
NT2	ruthenium phosphides	NT2	technetium selenides	NT2	tungsten chlorides
NT2	ruthenium selenides	NT2	technetium sulfides	NT2	tungsten fluorides
NT2	ruthenium silicides	NT2	technetium tellurides	NT2	tungsten hydrides
NT2	ruthenium sulfates	NT1	titanium compounds	NT2	tungsten hydroxides
NT2	ruthenium sulfides	NT2	titanates	NT2	tungsten iodides
NT2	ruthenium tellurides	NT3	cadmium titanates	NT2	tungsten nitrides
NT1	scandium compounds	NT3	lithium titanates	NT2	tungsten oxides
NT2	scandium borides	NT3	plzt	NT3	sodium tungsten bronze
NT2	scandium bromides	NT3	pzt	NT2	tungsten phosphides
NT2	scandium carbides	NT3	strontium titanates	NT2	tungsten selenides
NT2	scandium carbonates	NT2	titanium arsenides	NT2	tungsten silicides
NT2	scandium chlorides	NT2	titanium borides	NT2	tungsten sulfides
NT2	scandium fluorides	NT2	titanium bromides	NT2	tungsten tellurides
NT2	scandium hydrides	NT2	titanium carbides	NT2	tungstophosphates
NT2	scandium hydroxides	NT2	titanium chlorides	NT2	tungstophosphoric acid
NT2	scandium iodides	NT2	titanium fluorides	NT1	vanadium compounds
NT2	scandium nitrates	NT2	titanium hydrides	NT2	vanadates
NT2	scandium nitrides	NT2	titanium hydroxides	NT3	potassium vanadates
NT2	scandium oxides	NT2	titanium iodides	NT3	uranium vanadates
NT2	scandium perchlorates	NT2	titanium nitrates	NT2	vanadium arsenides
NT2	scandium phosphates	NT2	titanium nitrides	NT2	vanadium borides
NT2	scandium phosphides	NT2	titanium oxides	NT2	vanadium bromides
NT2	scandium selenides	NT2	titanium phosphates	NT2	vanadium carbides
NT2	scandium silicates	NT2	titanium phosphides	NT2	vanadium chlorides
NT2	scandium silicides	NT2	titanium selenides	NT2	vanadium fluorides
NT2	scandium sulfates	NT2	titanium silicates	NT2	vanadium hydrides
NT2	scandium sulfides	NT2	titanium silicides	NT2	vanadium hydroxides
NT2	scandium tungstates	NT2	titanium sulfates	NT2	vanadium iodides
NT1	silver compounds	NT2	titanium sulfides	NT2	vanadium nitrates
NT2	silver arsenides	NT2	titanium tellurides	NT2	vanadium nitrides
NT2	silver bromides	NT2	titanium tungstates	NT2	vanadium oxides
NT2	silver carbonates	NT1	tungsten compounds	NT2	vanadium phosphates

NT2 vanadium phosphides  
 NT2 vanadium selenides  
 NT2 vanadium silicates  
 NT2 vanadium silicides  
 NT2 vanadium sulfates  
 NT2 vanadium sulfides  
 NT2 vanadium tellurides  
 NT2 vanadium tungstates  
 NT1 yttrium compounds  
 NT2 yttrium arsenides  
 NT2 yttrium borides  
 NT2 yttrium bromides  
 NT2 yttrium carbides  
 NT2 yttrium carbonates  
 NT2 yttrium chlorides  
 NT2 yttrium fluorides  
 NT2 yttrium hydrides  
 NT2 yttrium hydroxides  
 NT2 yttrium iodides  
 NT2 yttrium nitrates  
 NT2 yttrium nitrides  
 NT2 yttrium oxides  
 NT3 alloy-in-853  
 NT2 yttrium perchlorates  
 NT2 yttrium phosphates  
 NT2 yttrium phosphides  
 NT2 yttrium selenides  
 NT2 yttrium silicates  
 NT2 yttrium silicides  
 NT2 yttrium sulfates  
 NT2 yttrium sulfides  
 NT2 yttrium tellurides  
 NT2 yttrium tungstates  
 NT1 zirconium compounds  
 NT2 zirconates  
 NT3 plzt  
 NT3 pzt  
 NT2 zirconium arsenides  
 NT2 zirconium borides  
 NT2 zirconium bromides  
 NT2 zirconium carbides  
 NT2 zirconium carbonates  
 NT2 zirconium chlorides  
 NT2 zirconium fluorides  
 NT2 zirconium hydrides  
 NT2 zirconium hydroxides  
 NT2 zirconium iodides  
 NT2 zirconium nitrates  
 NT2 zirconium nitrides  
 NT2 zirconium oxides  
 NT2 zirconium perchlorates  
 NT2 zirconium phosphates  
 NT2 zirconium phosphides  
 NT2 zirconium selenides  
 NT2 zirconium silicates  
 NT2 zirconium silicides  
 NT2 zirconium sulfates  
 NT2 zirconium sulfides  
 NT2 zirconium tellurides  
 NT2 zirconium tungstates

**TRANSITION ELEMENTS**

*UF* transition metals

\*BT1 metals

NT1 chromium

NT1 cobalt

NT1 copper

NT1 gold

NT1 hafnium

NT2 hafnium-alpha

NT2 hafnium-beta

NT1 iron

NT2 iron-alpha

NT2 iron-delta

NT2 iron-gamma

NT1 manganese

NT2 manganese-alpha

NT1 molybdenum

NT1 nickel

NT1 niobium

NT2 niobium-alpha

NT2 niobium-beta

NT1 platinum metals

NT2 iridium

NT2 osmium

NT2 palladium

NT2 platinum

NT2 rhodium

NT2 ruthenium

NT1 rhenium

NT1 scandium

NT1 silver

NT1 tantalum

NT1 technetium

NT1 titanium

NT2 titanium-alpha

NT2 titanium-beta

NT1 tungsten

NT2 tungsten-alpha

NT1 vanadium

NT1 yttrium

NT1 zirconium

NT2 zirconium-alpha

NT2 zirconium-beta

NT2 zirconium-omega

**TRANSITION FLOW**

BT1 fluid flow

**TRANSITION HEAT**

*UF* heat of transition

*UF* latent heat of transition

\*BT1 enthalpy

NT1 fusion heat

NT1 sublimation heat

NT1 vaporization heat

*RT* differential thermal analysis

*RT* phase change materials

*RT* phase transformations

**transition metals**

USE transition elements

**TRANSITION RADIATION**

\*BT1 electromagnetic radiation

**TRANSITION RADIATION DETECTORS**

*For detection of transition radiation emitted by particles going from one medium to another.*

\*BT1 radiation detectors

**TRANSITION TEMPERATURE**

*UF* temperature (transition)

\*BT1 thermodynamic properties

NT1 boiling points

NT1 critical temperature

NT1 curie point

NT1 dew point

NT1 lambda point

NT1 melting points

NT1 neel temperature

*RT* ductile-brittle transitions

*RT* phase transformations

**transitions (brittle-ductile)**

1998-10-23

USE brittle-ductile transitions

**transitions (ductile-brittle)**

USE ductile-brittle transitions

**transitions (energy level)**

USE energy-level transitions

**transitions (forbidden)**

USE forbidden transitions

**transitions (phase)**

USE phase transformations

**translation (computer codes)**

*INIS: 1990-12-07; ETDE: 2002-06-13*

USE translators

**translation (macromolecules)**

*INIS: 1990-12-07; ETDE: 2002-06-13*

USE biosynthesis

**translation (mathematics)**

*INIS: 1990-12-07; ETDE: 2002-06-13*

USE transformations

**translation (mechanical)**

*INIS: 1990-12-07; ETDE: 2002-06-13*

USE mechanics

**TRANSLATORS**

*Computer codes translating programs from one programming language into another.*

*UF* translation (computer codes)

BT1 computer codes

*RT* programming

*RT* programming languages

**TRANSLLOCATION**

*See also RADIOACTIVITY TRANSPORT for the movement of and deposition of radioactive materials throughout a reactor.*

*RT* ions

*RT* kinetics

*RT* minerals

*RT* organic compounds

*RT* plant sap

*RT* plants

*RT* radionuclide migration

*RT* stable isotopes

**TRANSMISSION**

*Of particles and radiation through matter; see also DATA TRANSMISSION, MECHANICAL TRANSMISSIONS, or POWER TRANSMISSION.*

NT1 light transmission

*RT* absorption

*RT* attenuation

*RT* opacity

**transmission (data)**

USE data transmission

**transmission (energy)**

*INIS: 2000-04-12; ETDE: 1976-05-17*

SEE power transmission

**transmission (heat)**

USE heat transfer

**TRANSMISSION ELECTRON MICROSCOPY**

*INIS: 1982-12-07; ETDE: 1979-01-30*

*UF* tem (microscopy)

\*BT1 electron microscopy

**transmission lines**

*INIS: 2000-04-12; ETDE: 1979-03-27*

USE power transmission lines

**transmission towers**

*INIS: 2000-04-12; ETDE: 1976-08-05*

USE power transmission towers

**TRANSMUTATION**

2000-03-14

*Of nuclides.*

*UF* nuclear transmutation

NT1 accelerator driven transmutation

*RT* breeding

*RT* isotope production

**TRANSONIC FLOW**

BT1 fluid flow

*RT* aerodynamics

RT compressible flow  
 RT shock waves  
 RT supersonic flow

**transparency**

USE opacity

**TRANSPIRATION**

*Plants only.*

RT evaporation  
 RT heat stress  
 RT leaves  
 RT physiology  
 RT plant sap  
 RT plants  
 RT stomata  
 RT water vapor

**transpiration (animal)**

USE sweat

**TRANSPLANTS**

NT1 grafts  
 RT chimeras  
 RT graft-host reaction  
 RT host  
 RT immunity  
 RT immunosuppression  
 RT plastic surgery  
 RT transfusions

**transplutoniodes**

INIS: 1975-11-11; ETDE: 2002-06-13

USE transplutonium elements

**TRANSPLUTONIUM COMPOUNDS**

1980-05-14

BT1 transuranium compounds  
 NT1 americium compounds  
 NT2 americium arsenides  
 NT2 americium bromides  
 NT2 americium carbides  
 NT2 americium carbonates  
 NT2 americium chlorides  
 NT2 americium fluorides  
 NT2 americium halides  
 NT3 americium iodides  
 NT2 americium hydrides  
 NT2 americium hydroxides  
 NT2 americium nitrates  
 NT2 americium nitrides  
 NT2 americium oxides  
 NT2 americium perchlorates  
 NT2 americium phosphates  
 NT2 americium phosphides  
 NT2 americium selenides  
 NT2 americium silicates  
 NT2 americium silicides  
 NT2 americium sulfates  
 NT2 americium sulfides  
 NT2 americium tellurides  
 NT1 berkelium compounds  
 NT2 berkelium arsenides  
 NT2 berkelium bromides  
 NT2 berkelium chlorides  
 NT2 berkelium fluorides  
 NT2 berkelium hydrides  
 NT2 berkelium nitrates  
 NT2 berkelium nitrides  
 NT2 berkelium oxides  
 NT2 berkelium phosphates  
 NT2 berkelium phosphides  
 NT2 berkelium selenides  
 NT2 berkelium sulfates  
 NT2 berkelium sulfides  
 NT2 berkelium tellurides  
 NT1 californium compounds  
 NT2 californium arsenides  
 NT2 californium bromides  
 NT2 californium chlorides  
 NT2 californium fluorides

NT2 californium halides  
 NT3 californium iodides  
 NT2 californium nitrates  
 NT2 californium nitrides  
 NT2 californium oxides  
 NT2 californium selenides  
 NT2 californium sulfides  
 NT2 californium tellurides  
 NT1 curium compounds  
 NT2 curium arsenides  
 NT2 curium bromides  
 NT2 curium carbonates  
 NT2 curium chlorides  
 NT2 curium fluorides  
 NT2 curium hydrides  
 NT2 curium hydroxides  
 NT2 curium iodides  
 NT2 curium nitrates  
 NT2 curium nitrides  
 NT2 curium oxides  
 NT2 curium phosphides  
 NT2 curium selenides  
 NT2 curium silicates  
 NT2 curium sulfides  
 NT2 curium tellurides  
 NT1 einsteinium compounds  
 NT2 einsteinium bromides  
 NT2 einsteinium chlorides  
 NT2 einsteinium halides  
 NT3 einsteinium fluorides  
 NT3 einsteinium iodides  
 NT2 einsteinium nitrates  
 NT2 einsteinium oxides  
 NT1 fermium compounds  
 NT2 fermium bromides  
 NT2 fermium halides  
 NT3 fermium chlorides  
 NT3 fermium iodides  
 NT2 fermium oxides  
 NT1 lawrencium compounds  
 NT1 mendelevium compounds  
 NT2 mendelevium oxides  
 NT1 nobelium compounds  
 NT2 nobelium oxides  
 NT1 transactinide compounds  
 NT2 bohrium compounds  
 NT2 darmstadtium compounds  
 NT2 dubnium compounds  
 NT2 element 112 compounds  
 NT2 element 113 compounds  
 NT2 element 114 compounds  
 NT2 hassium compounds  
 NT2 roentgenium compounds  
 NT2 rutherfordium compounds  
 NT3 rutherfordium chlorides  
 NT2 seaborgium compounds

**TRANSPLUTONIUM ELEMENTS**

UF *transplutoniodes*  
 \*BT1 transuranium elements  
 NT1 americium  
 NT1 berkelium  
 NT1 californium  
 NT1 curium  
 NT1 einsteinium  
 NT1 fermium  
 NT1 lawrencium  
 NT1 mendelevium  
 NT1 nobelium  
 NT1 transactinide elements  
 NT2 bohrium  
 NT2 darmstadtium  
 NT2 dubnium  
 NT2 element 112  
 NT2 element 113  
 NT2 element 114  
 NT2 element 115  
 NT2 element 116  
 NT2 element 117

NT2 element 118  
 NT2 element 119  
 NT2 element 120  
 NT2 element 126  
 NT2 element 128  
 NT2 element 134  
 NT2 element 145  
 NT2 element 164  
 NT2 element 173  
 NT2 hassium  
 NT2 meitnerium  
 NT2 roentgenium  
 NT2 rutherfordium  
 NT2 seaborgium  
 RT actinides

**TRANSPORT**

*Limited to the movement of goods and persons. For other types of transport, see descriptors such as ENVIRONMENTAL TRANSPORT, RADIATION TRANSPORT, RADIONUCLIDE MIGRATION, and RADIONUCLIDE KINETICS.*

UF *shipment*

UF *space transport*

SF *public transport*

SF *travel*

NT1 *air transport*

NT2 *supersonic transport*

NT1 *hydraulic transport*

NT1 *land transport*

NT2 *rail transport*

NT2 *road transport*

NT1 *maritime transport*

NT1 *pneumatic transport*

RT *arctic gas pipelines*

RT *barges*

RT *cargo*

RT *chain conveyors*

RT *containers*

RT *conveyors*

RT *deep water oil terminals*

RT *delivery*

RT *inland waterways*

RT *lightering*

RT *mass transit systems*

RT *materials handling*

RT *materials handling equipment*

RT *mine cars*

RT *navigation*

RT *nuclear trade*

RT *packaging*

RT *packaging rules*

RT *pipelines*

RT *propulsion*

RT *rapid transit systems*

RT *roads*

RT *storage*

RT *tourism*

RT *transport regulations*

RT *transportation sector*

RT *transportation systems*

RT *vehicles*

RT *waste transportation*

**transport (atoms)**

1999-03-17

USE atom transport

**transport (beam)**

INIS: 1987-11-02; ETDE: 2002-06-13

USE beam transport

**transport (charged-particle)**

USE charged-particle transport

**transport (energy)**

INIS: 2000-04-12; ETDE: 1976-05-17

SEE natural gas distribution systems

SEE pipelines

SEE power transmission

**transport (environmental radionuclides)**  
 INIS: 1993-11-10; ETDE: 2002-06-13  
 USE radionuclide migration

**transport (environmental)**  
 INIS: 2000-04-12; ETDE: 1985-03-12  
 SEE environmental transport

**transport (gamma)**  
 USE photon transport

**transport (in organisms)**  
 2000-04-12  
 USE radionuclide kinetics

**transport (neutral-particle)**  
 INIS: 1975-09-09; ETDE: 2002-06-13  
 USE neutral-particle transport

**transport (neutron)**  
 USE neutron transport

**transport (photon)**  
 USE photon transport

**transport (proton)**  
 USE proton transport

**transport (radiation)**  
 USE radiation transport

**transport (radionuclides in biological systems)**  
 INIS: 1993-11-10; ETDE: 2002-06-13  
 USE radionuclide kinetics

**transport (radionuclides in organisms)**  
 INIS: 1993-11-10; ETDE: 2002-06-13  
 USE radionuclide kinetics

**transport (reaction product)**  
 USE reaction product transport systems

**transport insurance**  
 USE insurance

**TRANSPORT REGULATIONS**  
 \*BT1 regulations  
 RT maritime laws  
 RT nuclear ship visits  
 RT transport

**TRANSPORT THEORY**  
 1996-07-23  
 SF slaggie model  
 NT1 charged-particle transport theory  
 NT2 neoclassical transport theory  
 NT2 spitzer theory  
 NT1 gamma transport theory  
 NT1 nelkin theory  
 NT1 neutron transport theory  
 NT2 multigroup theory  
 NT2 one-group theory  
 RT atom transport  
 RT boltzmann equation  
 RT boltzmann-vlasov equation  
 RT case method  
 RT chapman-enskog theory  
 RT chapman-ferraro problem  
 RT discrete ordinate method  
 RT feynman method  
 RT fokker-planck equation  
 RT grad-shafranov equation  
 RT invariant imbedding  
 RT moments method  
 RT monte carlo method  
 RT poincare-bertrand formula  
 RT radiation transport

RT scattering  
 RT van hove theory  
 RT wick-chandrasekhar method  
 RT young model  
 RT yvon method

**TRANSPORTABLE REACTORS**

*Capable of being moved when not critical and possibly partly dismantled.*

BT1 reactors  
 NT1 package reactors  
 NT1 tibr reactor

**transportation routes**

INIS: 2000-04-12; ETDE: 1983-09-15

USE routing

**TRANSPORTATION SECTOR**

INIS: 1998-11-12; ETDE: 1977-07-23

SF end use sector  
 RT sectoral analysis  
 RT taxicabs  
 RT transport  
 RT transportation systems

**TRANSPORTATION SYSTEMS**

1992-09-09

NT1 mass transit systems  
 NT1 private vehicles  
 NT1 rapid transit systems  
 RT airports  
 RT buses  
 RT carpooling  
 RT taxicabs  
 RT trains  
 RT transport  
 RT transportation sector  
 RT vanpooling

**TRANSPOSONS**

INIS: 1991-07-02; ETDE: 1987-12-17

*Portions of DNA carrying repeated terminal sequences which confer to the segment the capability of jumping around within the genome.*

RT dna-cloning  
 RT genes  
 RT genetic engineering  
 RT genetic variability  
 RT plasmids

**TRANSURANIUM COMPLEXES**

1996-07-18

UF lawrencium complexes  
 BT1 complexes  
 NT1 americium complexes  
 NT1 berkelium complexes  
 NT1 californium complexes  
 NT1 curium complexes  
 NT1 einsteinium complexes  
 NT1 fermium complexes  
 NT1 mendelevium complexes  
 NT1 neptunium complexes  
 NT2 neptunyl complexes  
 NT1 nobelium complexes  
 NT1 plutonium complexes  
 NT2 plutonyl complexes

**TRANSURANIUM COMPOUNDS**

NT1 neptunium compounds  
 NT2 neptunium arsenides  
 NT2 neptunium borides  
 NT2 neptunium bromides  
 NT2 neptunium carbides  
 NT2 neptunium carbonates  
 NT2 neptunium chlorides  
 NT2 neptunium fluorides  
 NT2 neptunium hydrides  
 NT2 neptunium hydroxides  
 NT2 neptunium iodides  
 NT2 neptunium nitrates

NT2 neptunium nitrides  
 NT2 neptunium oxides  
 NT2 neptunium perchlorates  
 NT2 neptunium phosphates  
 NT2 neptunium phosphides  
 NT2 neptunium selenides  
 NT2 neptunium sulfates  
 NT2 neptunium sulfides  
 NT2 neptunium tellurides  
 NT2 neptunyl compounds  
 NT1 plutonium compounds  
 NT2 plutonium arsenides  
 NT2 plutonium borides  
 NT2 plutonium bromides  
 NT2 plutonium carbides  
 NT2 plutonium carbonates  
 NT2 plutonium chlorides  
 NT2 plutonium fluorides  
 NT2 plutonium hydrides  
 NT2 plutonium hydroxides  
 NT2 plutonium iodides  
 NT2 plutonium nitrates  
 NT2 plutonium nitrides  
 NT2 plutonium oxides  
 NT3 plutonium dioxide  
 NT2 plutonium perchlorates  
 NT2 plutonium peroxide  
 NT2 plutonium phosphates  
 NT2 plutonium phosphides  
 NT2 plutonium selenides  
 NT2 plutonium silicates  
 NT2 plutonium sulfates  
 NT2 plutonium sulfides  
 NT2 plutonium tellurides  
 NT2 plutonyl compounds  
 NT1 transplutonium compounds  
 NT2 americium compounds  
 NT3 americium arsenides  
 NT3 americium bromides  
 NT3 americium carbides  
 NT3 americium carbonates  
 NT3 americium chlorides  
 NT3 americium fluorides  
 NT3 americium halides  
 NT4 americium iodides  
 NT3 americium hydrides  
 NT3 americium hydroxides  
 NT3 americium nitrates  
 NT3 americium nitrides  
 NT3 americium oxides  
 NT3 americium perchlorates  
 NT3 americium phosphates  
 NT3 americium phosphides  
 NT3 americium selenides  
 NT3 americium silicates  
 NT3 americium silicides  
 NT3 americium sulfates  
 NT3 americium sulfides  
 NT3 americium tellurides  
 NT2 berkelium compounds  
 NT3 berkelium arsenides  
 NT3 berkelium bromides  
 NT3 berkelium chlorides  
 NT3 berkelium fluorides  
 NT3 berkelium hydrides  
 NT3 berkelium nitrates  
 NT3 berkelium nitrides  
 NT3 berkelium oxides  
 NT3 berkelium phosphates  
 NT3 berkelium phosphides  
 NT3 berkelium selenides  
 NT3 berkelium sulfates  
 NT3 berkelium sulfides  
 NT3 berkelium tellurides  
 NT2 californium compounds  
 NT3 californium arsenides  
 NT3 californium bromides  
 NT3 californium chlorides  
 NT3 californium fluorides

**NT3** californium halides  
**NT4** californium iodides  
**NT3** californium nitrates  
**NT3** californium nitrides  
**NT3** californium oxides  
**NT3** californium selenides  
**NT3** californium sulfides  
**NT3** californium tellurides  
**NT2** curium compounds  
**NT3** curium arsenides  
**NT3** curium bromides  
**NT3** curium carbonates  
**NT3** curium chlorides  
**NT3** curium fluorides  
**NT3** curium hydrides  
**NT3** curium hydroxides  
**NT3** curium iodides  
**NT3** curium nitrates  
**NT3** curium nitrides  
**NT3** curium oxides  
**NT3** curium phosphides  
**NT3** curium selenides  
**NT3** curium silicates  
**NT3** curium sulfides  
**NT3** curium tellurides  
**NT2** einsteinium compounds  
**NT3** einsteinium bromides  
**NT3** einsteinium chlorides  
**NT3** einsteinium halides  
**NT4** einsteinium fluorides  
**NT4** einsteinium iodides  
**NT3** einsteinium nitrates  
**NT3** einsteinium oxides  
**NT2** fermium compounds  
**NT3** fermium bromides  
**NT3** fermium halides  
**NT4** fermium chlorides  
**NT4** fermium iodides  
**NT3** fermium oxides  
**NT2** lawrencium compounds  
**NT2** mendelevium compounds  
**NT3** mendelevium oxides  
**NT2** nobelium compounds  
**NT3** nobelium oxides  
**NT2** transactinide compounds  
**NT3** bohrium compounds  
**NT3** darmstadtium compounds  
**NT3** dubnium compounds  
**NT3** element 112 compounds  
**NT3** element 113 compounds  
**NT3** element 114 compounds  
**NT3** hassium compounds  
**NT3** roentgenium compounds  
**NT3** rutherfordium compounds  
**NT4** rutherfordium chlorides  
**NT3** seaborgium compounds

## TRANSURANIUM ELEMENTS

**BT1** elements  
**NT1** neptunium  
**NT2** neptunium-alpha  
**NT2** neptunium-gamma  
**NT1** plutonium  
**NT2** plutonium-alpha  
**NT2** plutonium-beta  
**NT2** plutonium-delta  
**NT2** plutonium-epsilon  
**NT2** plutonium-gamma  
**NT1** transplutonium elements  
**NT2** americium  
**NT2** berkelium  
**NT2** californium  
**NT2** curium  
**NT2** einsteinium  
**NT2** fermium  
**NT2** lawrencium  
**NT2** mendelevium  
**NT2** nobelium  
**NT2** transactinide elements

**NT3** bohrium  
**NT3** darmstadtium  
**NT3** dubnium  
**NT3** element 112  
**NT3** element 113  
**NT3** element 114  
**NT3** element 115  
**NT3** element 116  
**NT3** element 117  
**NT3** element 118  
**NT3** element 119  
**NT3** element 120  
**NT3** element 126  
**NT3** element 128  
**NT3** element 134  
**NT3** element 145  
**NT3** element 164  
**NT3** element 173  
**NT3** hassium  
**NT3** meitnerium  
**NT3** roentgenium  
**NT3** rutherfordium  
**NT3** seaborgium  
**RT** actinides

## transuranium wastes

*INIS: 2000-04-12; ETDE: 1981-01-09*  
**USE** alpha-bearing wastes

## TRANSVAAL

**\*BT1** south africa  
**RT** witwatersrand

## TRANSVERSE ENERGY

*INIS: 1989-04-20; ETDE: 1989-01-26*  
*The kinetic energy of any particle, or group of particles, detected during a particle/target or beam/target interaction at a nonzero angle measured with respect to the initial particle or beam direction.*

**\*BT1** kinetic energy  
**RT** angular distribution  
**RT** anisotropy  
**RT** energy spectra  
**RT** nuclear reactions  
**RT** particle interactions  
**RT** transverse momentum

## TRANSVERSE MOMENTUM

**UF** momentum (transverse)  
**BT1** linear momentum  
**RT** center-of-mass system  
**RT** interactions  
**RT** longitudinal momentum  
**RT** nuclear reactions  
**RT** particle interactions  
**RT** straight-line path approximation  
**RT** transverse energy

## TRAPPED ELECTRONS

**\*BT1** electrons  
**RT** electron precipitation

## TRAPPED-PARTICLE INSTABILITY

**\*BT1** plasma macroinstabilities  
**RT** banana regime  
**RT** closed plasma devices

## TRAPPED PROTONS

*INIS: 1977-04-07; ETDE: 1977-06-03*  
**\*BT1** protons  
**RT** aurorae  
**RT** proton precipitation

## TRAPPING

*1996-07-23*  
*Includes trapping of electrons or holes in lattices and trapping of particles in fields.*  
**NT1** banana regime  
**RT** crystal lattices  
**RT** greenhouse effect  
**RT** holes

**RT** magnetic fields  
**RT** plateau regime

## TRAPS

*Equipment for trapping of electrons or holes in lattices and trapping of particles in fields; see also FILTERS.*

**NT1** cold traps  
**NT1** steam traps  
**RT** deep level transient spectroscopy  
**RT** electrons  
**RT** holes  
**RT** luminescence  
**RT** photoconductivity  
**RT** photolysis  
**RT** semiconductor materials  
**RT** vacancies

## trauma

**USE** injuries

## traumatic shock

**USE** biological shock  
**USE** injuries

## TRAVALE GEOTHERMAL FIELD

*INIS: 2000-04-12; ETDE: 1985-12-11*  
**BT1** geothermal fields  
**RT** italy  
**RT** vapor-dominated systems

## travel

*INIS: 2000-04-12; ETDE: 1983-03-23*  
*(Prior to January 1995, this was a valid ETDE descriptor.)*  
**SEE** transport

## TRAVELLING IONOSPHERIC DISTURBANCE

**UF** tid  
**\*BT1** ionospheric storms  
**RT** ionosphere

## TRAVELLING WAVE TUBES

**\*BT1** microwave tubes  
**RT** rf systems

## TRAVELLING WAVES

**UF** waves (travelling)  
**RT** electromagnetic radiation  
**RT** mechanical vibrations  
**RT** standing waves  
**RT** wave propagation  
**RT** waveguides

## TRAVERTINE

*INIS: 2000-04-12; ETDE: 1976-01-23*  
*A calcium carbonate deposited from solution in ground and surface waters.*  
**\*BT1** limestone  
**RT** calcium carbonates

## TRAWSFYNYDD REACTOR

*Merionethshire, Wales, United Kingdom.*  
**\*BT1** carbon dioxide cooled reactors  
**\*BT1** magnox type reactors  
**\*BT1** thermal reactors

## trce(thermionic reactor critical experiments)

*2000-04-12*  
**USE** thermionic reactors  
**USE** zero power reactors

## TREAT REACTOR

*ANL/INEEL, Idaho, USA.*  
**UF** transient reactor test facility  
**\*BT1** air cooled reactors  
**\*BT1** enriched uranium reactors  
**\*BT1** experimental reactors  
**\*BT1** graphite moderated reactors  
**\*BT1** solid homogeneous reactors

- \*BT1 test reactors
- \*BT1 thermal reactors

**TREATIES**

1998-06-10

- NT1 bangkok treaty
- NT1 ctbt
- NT1 non-proliferation treaty
- NT1 pelindaba treaty
- NT1 rarotonga treaty
- NT1 tlalolco treaty
- RT international agreements
- RT international laws
- RT negotiation
- RT salt talks
- RT verification

**treatment (therapy)**

- USE therapy

**treaty for prohibition of nuclear weapons in latin america**

INIS: 1984-06-21; ETDE: 2002-06-13

- USE tlalolco treaty

**TREE RINGS**

INIS: 1993-06-03; ETDE: 1976-06-07

- SF growth rings
- RT trees

**TREES**

1997-06-17

(From June 1981 till March 1997

COPAIFERA was a valid ETDE descriptor.)

- UF betula
- UF copaiba
- UF copaifera
- UF honeylocust trees
- UF mahogany trees
- BT1 plants
- NT1 beech trees
- NT1 birches
- NT1 cacao trees
- NT1 cedars
- NT1 chestnut trees
- NT1 coconut palms
- NT1 deciduous trees
- NT1 eucalyptuses
- NT1 firs
- NT1 fruit trees
- NT1 locust trees
- NT1 mangroves
- NT1 maples
- NT1 mesquite
- NT1 oaks
- NT1 oil palms
- NT1 olive trees
- NT1 pecan trees
- NT1 pines
- NT1 poplars
- NT2 aspens
- NT2 cottonwoods
- NT1 rubber trees
- NT2 guayule
- NT2 hevea
- NT1 spruces
- NT1 sweet gums
- NT1 sycamores
- NT1 willows
- RT bark
- RT canopies
- RT conifers
- RT forests
- RT preferred species
- RT short rotation cultivation
- RT silviculture
- RT tree rings
- RT wood
- RT wood fuels
- RT xylans

**TREMATODES**

- UF flukes (trematodes)
- BT1 parasites
- \*BT1 plathyhelminths
- NT1 fasciola
- NT1 schistosoma

**tretamine**

- USE alkylating agents

**TRH**

- UF thyrotropin-releasing hormone
- \*BT1 peptide hormones
- RT hypothalamus
- RT tsh

**tri-2-ethylhexyl phosphate**

INIS: 2000-04-12; ETDE: 1982-12-01

- USE phosphoric acid esters

**tri-gas process**

INIS: 2000-04-12; ETDE: 1977-04-12

The Bituminous Coal Research, Inc. process using two-stage super-pressure entraining gasifier.

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE coal gasification

**tri-university meson facility**

INIS: 1993-11-10; ETDE: 1980-05-23

- USE triumf cyclotron

**TRICETONEAMINE-N-OXYL**

- UF tan (triacetoneamine-n-oxyl)
- UF tetramethyl-4-piperidone-n-oxyl
- \*BT1 ketones
- \*BT1 organic oxygen compounds
- \*BT1 piperidines
- \*BT1 radiosensitizers

**TRIAM-1 TOKAMAK**

1983-03-15

- \*BT1 tokamak devices

**TRIANGULAR CONFIGURATION**

- BT1 configuration

**TRIASSIC PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

- \*BT1 mesozoic era

**TRIAZINES**

Compounds that contain a six-membered heterocyclic ring containing three nitrogen atoms.

- \*BT1 azines
- NT1 cyanurates
- NT1 melamine

**TRIAZOLES**

Compounds that contain a five-membered heterocyclic ring containing three nitrogen atoms.

- \*BT1 azoles

**TRIBALLOY 400**

INIS: 2000-04-12; ETDE: 1979-08-07

- \*BT1 chromium alloys
- \*BT1 cobalt base alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys

**triballoy 700**

INIS: 1997-01-28; ETDE: 1978-10-23

(Until October 1996 this was a valid descriptor.)

- USE alloy-ni50mo32cr15si3

**TRIBALLOY 800**

INIS: 1993-10-03; ETDE: 1979-08-07

- \*BT1 chromium alloys
- \*BT1 cobalt base alloys

- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 silicon alloys

**TRIBOLIUM**

- \*BT1 beetles

**TRIBOLOGY**

INIS: 1992-02-26; ETDE: 1978-04-05

Science dealing with physical, chemical, and metallurgical phenomena of interacting surfaces in relative motion.

- RT bearings
- RT friction
- RT lubricants
- RT lubricating oils
- RT lubrication
- RT surface properties
- RT wear

**tributyl phosphate**

- USE tbp

**TRIBUTYLPHOSPHINE OXIDE**

ETDE: 2005-02-01

(Prior to January 2005 TBPO was used for this concept.)

- UF tbpo (tributylphosphine oxide)
- \*BT1 organic phosphorus compounds
- \*BT1 phosphine oxides

**tricarballic acid**

1996-10-23

(Until October 1996 this was a valid descriptor.)

- USE carboxylic acids

**TRICASTIN-1 REACTOR**

INIS: 1985-10-22; ETDE: 1985-11-13

Troischatheaux, Drome, France.

- \*BT1 pwr type reactors

**TRICASTIN-4 REACTOR**

INIS: 1988-04-15; ETDE: 1988-05-23

Troischatheaux, Drome, France.

- \*BT1 pwr type reactors

**TRICHINELLA**

- \*BT1 nematodes
- BT1 parasites
- RT meat
- RT trichinosis

**TRICHINOSIS**

- \*BT1 parasitic diseases
- RT gastrointestinal tract
- RT inflammation
- RT muscles
- RT trichinella

**trichloroacetaldehyde**

- USE chloral

**trichloromethane**

1982-02-09

- USE chloroform

**TRICHODERMA**

INIS: 1991-12-16; ETDE: 1978-03-03

- \*BT1 eumycota
- NT1 trichoderma viride

**trichoderma reesei**

INIS: 1991-12-16; ETDE: 1979-03-28

- USE trichoderma viride

**TRICHODERMA VIRIDE**

INIS: 1991-12-16; ETDE: 1977-11-29

- UF trichoderma reesei
- \*BT1 trichoderma



**TRICKLE-TYPE COLLECTORS**

INIS: 2000-04-12; ETDE: 1978-09-11

UF open-flow collectors

UF thomason collectors

\*BT1 flat plate collectors

**TRICLINIC LATTICES**

\*BT1 crystal lattices

**TRICO REACTOR**

Kinshasa, Democratic Republic of the Congo.

UF congo kinshasa triga reactor

UF triga-congo reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 triga type reactors

**tricresyl phosphates**

USE tcp

**TRIDENT FACILITY**

INIS: 1999-07-26; ETDE: 1999-09-03

Neodymium laser facility at LANL.

RT lanl

RT laser fusion reactors

RT neodymium lasers

**TRIDODECYLAMINE**

UF trilaurylamine

\*BT1 amines

BT1 chelating agents

**triethylenemelamine**

USE alkylating agents

**triethylenetetraaminehexaacetic acid**

1995-02-16

USE tetaha

**triethylenetetramine**

USE teta

**TRIGA-1-ARIZONA REACTOR**

INIS: 1988-11-16; ETDE: 1987-04-08

Univ. of Arizona, Tucson, Arizona, USA.

(Prior to December 1988 this material was indexed to TRIGA-1-ARIZONA.)

\*BT1 triga type reactors

**TRIGA-1-CALIFORNIA REACTOR**

ETDE: 1978-03-03

Univ. of California, Irvine, California, USA.

UF california irvine triga-mk-1 reactor

UF irvine triga-mk-1 reactor

UF irvine triga reactor

UF ucirr reactor

UF university of california irvine reactor

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-1-HANFORD REACTOR**

INIS: 1979-09-18; ETDE: 1979-01-30

Westinghouse-Hanford-300, Richland, Washington, USA.

UF hanford neutron radiography facility

\*BT1 materials testing reactors

\*BT1 triga type reactors

**TRIGA-1-HANOVER REACTOR**

1991-07-02

UF frh reactor

UF hannover triga-mk-1 reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-1-HEIDELBERG REACTOR**

UF heidelberg triga-mk-1-dkfc reactor

UF triga-mark-i-dkfc heidelberg reactor

UF triga-mk-1-dkfc heidelberg reactor

SF triga-2-heidelberg reactor

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-1-MICHIGAN REACTOR**

INIS: 1976-02-11; ETDE: 1977-01-31

Michigan State Univ., East Lansing, Michigan, USA. Shut down in 1988; decommissioned.

(Prior to November 1990 this concept was indexed to MICHIGAN STATE TRIGA MK-1 REACTOR by ETDE.)

UF michigan state triga-mk-1 reactor

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 triga type reactors

**TRIGA-2-BANDUNG REACTOR**

1995-01-10

UF indonesian triga-mk-2 reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-BANGLADESH REACTOR**

INIS: 1999-09-24; ETDE: 1999-11-30

Atomic Energy Research Establishment, Dhaka, Bangladesh.

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**triga-2-cornell reactor**

INIS: 1984-06-25; ETDE: 2002-06-13

USE cornell triga-mk-2 reactor

**TRIGA-2-DALAT REACTOR**

Institute of Nuclear Research, Dalat, Viet-Nam.

UF dalat triga-mk-2 reactor

UF vietnamese triga-mk-2 reactor

UF vietnamese triga-mk-ii reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**triga-2-heidelberg reactor**

INIS: 2000-04-12; ETDE: 1975-08-19

SEE triga-1-heidelberg reactor

**TRIGA-2-ILLINOIS REACTOR**

Univ. of Illinois, Urbana, Illinois, USA.

UF illinois university triga-mk-2 reactor

UF university of illinois triga-mk-2 reactor

UF university of illinois triga-mk-ii reactor

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-KANSAS REACTOR**

Kansas State Univ., Manhattan, Kansas, USA.

UF kansas state university triga mk-2 reactor

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-LJUBLJANA REACTOR**

1997-11-11

J. Stefan Institute, Ljubljana, Slovenia.

UF ljubljana triga-mk-2 reactor

UF yugoslav triga-mk-2 reactor

UF yugoslav triga-mk-ii reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-MAINZ REACTOR**

Institut fuer Kernchemie, Univ. Mainz, Mainz, F.R. Germany.

UF german (mainz) triga-mk-2 reactor

UF mainz triga-mk-2 reactor

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-MUSASHI REACTOR**

Musashi Institute of Technology Univ., Kawasaki, Kanagawa, Japan.

UF musashi institute of technology triga reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-PAVIA REACTOR**

Pavia, Italy.

UF lena triga-mk-2 pulsed reactor

UF pavia triga-mk-2 reactor

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 triga type reactors

**TRIGA-2-PITESTI REACTOR**

1999-09-24

Institute for Nuclear Power Research, Pitesti, Romania.

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2 REACTOR**

UF triga-mark-ii reactor

UF triga-mk-2 reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-RIKKYO REACTOR**

Institute for Atomic Energy, Rikkyo Univ., Yokosuka, Kanagawa, Japan.

UF rikkyo university triga-mk-2 reactor

UF rikkyo university triga-mk-ii reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-ROME REACTOR**

UF italian triga-mark-ii reactor

UF italian triga-mk-2 reactor

UF rc-1 reactor

UF reattore casaccia-1

UF rome triga-mk-2 reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-SEOUL REACTOR**

KAERI, Cheong Ryang, Seoul, Republic of Korea.

UF korean triga-mk-2 reactor

UF seoul triga-mk-2 reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-VIENNA REACTOR**

*Atomintitute of the Austrian Universities/Austrian Fed. Min. of Science and Research, Vienna, Austria.*

- UF austrian triga-mark-ii reactor  
 UF austrian triga-mk-2 reactor  
 UF vienna triga-mk-2 reactor  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**triga-3-gulf reactor**

INIS: 1984-06-25; ETDE: 2002-06-13  
 USE gulf triga-mk-3 reactor

**TRIGA-3-LA JOLLA REACTOR**

*La Jolla, California, USA.*  
 UF la jolla triga-mk-3 reactor  
 UF torrey pines triga-mark-3 reactor  
 UF torrey pines triga-mk-3 reactor  
 \*BT1 triga type reactors

**TRIGA-3-MUNICH REACTOR**

2000-04-12  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-3-SALAZAR REACTOR**

UF mexican triga-mark-3 reactor  
 UF mexican triga-mk-3 reactor  
 UF salazar triga-mk-3 reactor  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-3-SEOUL REACTOR**

1980-07-24  
*KAERI, Cheong Ryang, Seoul, Republic of Korea.*  
 UF korean triga-mk-3 reactor  
 UF seoul triga-mk-3 reactor  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-BRAZIL REACTOR**

*Instituto de Pesquisas Radioativas Nuclebras, Cidade Universitaria-Pampulma, Minas Gerais, Brazil.*  
 UF brazil triga reactor  
 UF ipr-1 reactor  
 UF minas gerais university triga reactor  
 UF universiy minas gerais triga reactor  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**triga-congo reactor**

USE trico reactor

**triga-f-dasa reactor**

USE afri reactor

**triga-mark-i-dkfz heidelberg reactor**

2000-04-12  
 USE triga-1-heidelberg reactor

**triga-mark-ii reactor**

2000-04-12  
 USE triga-2 reactor

**triga-mk-1-dkfz heidelberg reactor**

INIS: 1993-11-10; ETDE: 2002-06-13  
 USE triga-1-heidelberg reactor

**triga-mk-2 reactor**

ETDE: 2002-06-13  
*See also specific reactors of this type, e.g. CORNELL TRIGA-MK-2 REACTOR.*  
 USE triga-2 reactor

**triga-mk-3 reactor**

2000-04-12  
 SEE atpr reactor  
 SEE colorado triga-mk-3 reactor

**triga-mk-f prototype reactor**

2000-04-12  
 USE atpr reactor

**triga-pennsylvania reactor**

USE pstr reactor

**triga puspati reactor**

1984-12-04  
 USE rtp reactor

**TRIGA-TEXAS REACTOR**

*Balcones Research Center, Univ. of Texas, near Austin, Texas, USA. Shut down in 1988.*  
 UF texas university triga reactor  
 UF university of texas triga reactor  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA TYPE REACTORS**

1995-01-10  
 \*BT1 enriched uranium reactors  
 \*BT1 hydride moderated reactors  
 \*BT1 research and test reactors  
 \*BT1 solid homogeneous reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
 NT1 afri reactor  
 NT1 atpr reactor  
 NT1 colorado triga-mk-3 reactor  
 NT1 cornell triga-mk-2 reactor  
 NT1 dow triga-mk-1 reactor  
 NT1 fir-1 reactor  
 NT1 fir-2 reactor  
 NT1 fn reactor  
 NT1 gulf triga-mk-3 reactor  
 NT1 kartini-ppny reactor  
 NT1 lopra reactor  
 NT1 nscr reactor  
 NT1 ostr reactor  
 NT1 prpr reactor  
 NT1 pstr reactor  
 NT1 rtp reactor  
 NT1 trico reactor  
 NT1 triga-1-arizona reactor  
 NT1 triga-1-california reactor  
 NT1 triga-1-hanford reactor  
 NT1 triga-1-hanover reactor  
 NT1 triga-1-heidelberg reactor  
 NT1 triga-1-michigan reactor  
 NT1 triga-2-bandung reactor  
 NT1 triga-2-bangladesh reactor  
 NT1 triga-2-dalat reactor  
 NT1 triga-2-illinois reactor  
 NT1 triga-2-kansas reactor  
 NT1 triga-2-ljubljana reactor  
 NT1 triga-2-mainz reactor  
 NT1 triga-2-musashi reactor  
 NT1 triga-2-pavia reactor  
 NT1 triga-2-pitesti reactor  
 NT1 triga-2 reactor  
 NT1 triga-2-rikkyo reactor  
 NT1 triga-2-rome reactor  
 NT1 triga-2-seoul reactor  
 NT1 triga-2-vienna reactor  
 NT1 triga-3-la jolla reactor  
 NT1 triga-3-munich reactor  
 NT1 triga-3-salazar reactor  
 NT1 triga-3-seoul reactor  
 NT1 triga-brazil reactor  
 NT1 triga-texas reactor  
 NT1 triga-veterans reactor  
 NT1 ucbr reactor

NT1 uwnr reactor

NT1 wsur reactor

**TRIGA-VETERANS REACTOR**

*Omaha V.A. Medical Center/U.S. Veterans Administration, Omaha, Nebraska, USA.*  
 UF omaha veterans triga-mk-1  
 UF veterans administration hospital triga reactor

- \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGGER CIRCUITS**

- \*BT1 pulse circuits  
 NT1 transistor trigger circuits

**TRIGLYCERIDES**

1996-10-22  
 UF butter fat  
 UF croton oil  
 UF tiglium oil  
 \*BT1 esters  
 \*BT1 lipids  
 NT1 corn oil  
 NT1 linseed oil  
 NT1 olive oil  
 NT1 peanut oil  
 NT1 soybean oil  
 NT1 triolein  
 RT glycerol  
 RT oils

**TRIGONAL LATTICES**

UF rhombohedral lattices  
 \*BT1 crystal lattices

**trihydroxyaromatics**

USE polyphenols

**trihydroxybenzoic acid**

USE gallic acid

**trihydroxyglutaric acid**

1996-10-23  
 (Until October 1996 this was a valid descriptor.)  
 USE hydroxy acids

**TRIIODOTHYRONINE**

UF t3 hormone  
 \*BT1 thyroid hormones  
 RT diiodothyronine  
 RT thyronine

**triketohydrindane**

1996-10-23  
 (Prior to March 1997 NINHYDRIN was used for this concept in ETDE.)  
 USE ketones

**trilaurylamine**

1985-07-19  
 (Prior to July 1985, this was a valid ETDE descriptor.)  
 USE tridodecylamine

**trillium**

1996-07-15  
 (Until June 1996 this was a valid descriptor.)  
 USE liliopsida

**TRILLO-1 REACTOR**

INIS: 1979-05-28; ETDE: 1979-09-06  
*Trillo, Guadalajara, Spain.*  
 \*BT1 pwr type reactors

**trimethylacetic acid**

USE pivalic acid

**trimethylbenzene-sym**

ETDE: 2002-06-13  
 USE mesitylene

**TRINEUTRONS**

\*BT1 polyneutrons

**TRINIDAD AND TOBAGO**

1992-06-04

\*BT1 lesser antilles

**trinitrophenol**

USE picric acid

**trinitrotoluene**

USE tnt

**TRINITY EVENT**

\*BT1 atmospheric explosions

\*BT1 nuclear explosions

**trino vercellese reactor**

USE selni reactor

**trinonylamine**

2000-04-12

(Prior to February 1996 TNA was used for this concept in ETDE.)

USE amines

USE chelating agents

**TRIOCTYLAMINE**

ETDE: 2005-02-01

(Prior to January 2005 TOA was used for this concept.)

UF *toa* (trioctylamine)

\*BT1 amines

BT1 chelating agents

**TRIOCTYLPHOSPHINE OXIDE**

ETDE: 2005-02-01

(Prior to January 2005 TOPO was used for this concept.)

UF *topo* (trioctylphosphine oxide)

\*BT1 organic phosphorus compounds

\*BT1 phosphine oxides

**TRIOCTYLPHOSPHINE SULFIDE**

ETDE: 2005-02-01

(Prior to January 2005 TOPS was used for this concept.)

UF *tops* (trioctylphosphine sulfide)

\*BT1 organic phosphorus compounds

\*BT1 organic sulfur compounds

**TRIODE TUBES**

BT1 electron tubes

**TRIOLEIN**

UF *glyceryl trioleate*

UF *olein*

\*BT1 oils

\*BT1 triglycerides

RT *oleic acid*

**TRIOXANES**

\*BT1 heterocyclic compounds

\*BT1 organic oxygen compounds

RT *organic solvents*

**trioxylglutaric acid**

1996-10-23

(Prior to March 1997

TRIHYDROXYGLUTARIC ACID was used for this concept in ETDE.)

USE *hydroxy acids*

**TRIPHENYLENE**

\*BT1 condensed aromatics

\*BT1 hydrocarbons

**TRIPHENYLMETHANE DYES**

1996-10-22

UF *aluminon*

UF *aurin*

UF *aurintricarboxylic acid*

UF *chrome violet*

BT1 dyes

NT1 *methyl violet*

NT1 *methylthymol blue*

**TRIPHENYLPHOSPHINE OXIDE**

ETDE: 2005-02-01

(Prior to January 2005 TPO was used for this concept.)

UF *tpo* (triphenylphosphine oxide)

\*BT1 organic phosphorus compounds

\*BT1 phosphine oxides

**TRIPLASMATRONS**

BT1 ion sources

\*BT1 plasmatrions

**TRIPLE POINT**

INIS: 1988-02-02; ETDE: 1986-07-08

*The temperature and pressure at which the solid, liquid and vapor phases of a substance coexist in equilibrium with one another.*

RT *phase diagrams*

RT *phase transformations*

**triplet particles**

USE *quarks*

**TRIPLETS**

BT1 multiplets

**tristan project**

INIS: 1981-09-18; ETDE: 1981-10-24

USE *tristan storage rings*

**TRISTAN SEPARATOR**

INIS: 1986-05-23; ETDE: 1985-03-26

*An on-line isotope separator facility for the study of neutron-rich nuclei far from stability located at the high-flux beam reactor at BNL.*

BT1 *electromagnetic isotope separators*

\*BT1 *reactor experimental facilities*

RT *hfb reactor*

**TRISTAN STORAGE RINGS**

INIS: 1981-09-18; ETDE: 1981-10-24

*Transposable Ring Intersecting Storage Accelerators in Nippon.*

UF *kek intersecting storage accelerator*

UF *tristan project*

BT1 *storage rings*

**tritiated compounds**

USE *tritium compounds*

**tritiated water**

1996-06-19

USE *tritium oxides*

**triticum**

USE *wheat*

**TRITIDES**

INIS: 1986-03-04; ETDE: 1991-03-07

\*BT1 *tritium compounds*

NT1 *deuterium tritide*

NT1 *helium tritides*

NT1 *hydrogen tritide*

NT1 *lithium tritides*

**TRITIUM**

UF *hydrogen 3*

\*BT1 *beta-minus decay radioisotopes*

\*BT1 *hydrogen isotopes*

\*BT1 *light nuclei*

\*BT1 *odd-even nuclei*

\*BT1 *years living radioisotopes*

RT *thermonuclear fuels*

RT *tritium extraction plants*

RT *tritium meters*

RT *tritons*

**TRITIUM COMPOUNDS**

1996-06-19

UF *tritiated compounds*

BT1 *hydrogen compounds*

NT1 *tritides*

NT2 *deuterium tritide*

NT2 *helium tritides*

NT2 *hydrogen tritide*

NT2 *lithium tritides*

NT1 *tritium oxides*

RT *labelled compounds*

RT *tritium extraction plants*

**TRITIUM EXTRACTION PLANTS**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 *isotope separation plants*

RT *heavy water*

RT *tritium*

RT *tritium compounds*

**tritium hydride**

INIS: 1976-07-06; ETDE: 2002-06-13

USE *hydrogen tritide*

**TRITIUM IONS**

1996-03-04

\*BT1 *ions*

RT *d-t operation*

**TRITIUM METERS**

INIS: 1981-09-17; ETDE: 1978-09-11

\*BT1 *meters*

RT *chemical analysis*

RT *tritium*

**TRITIUM OXIDES**

1996-06-19

UF *dto*

UF *hto*

UF *tritiated water*

\*BT1 *oxides*

\*BT1 *tritium compounds*

\*BT1 *water*

**TRITIUM PRODUCTION REACTORS**

\*BT1 *irradiation reactors*

NT1 *celestine reactor*

**TRITIUM RECOVERY**

ETDE: 1975-09-11

*In thermonuclear reactors and/or devices.*

UF *recovery (tritium)*

SF *recovery*

RT *breeding*

RT *breeding blankets*

RT *plasma confinement*

RT *thermonuclear devices*

RT *thermonuclear reactors*

**TRITIUM SYSTEMS TEST ASSEMBLY**

INIS: 1986-07-09; ETDE: 1983-05-21

*Facility to test and demonstrate safe handling of tritium in a manner similar to that required for a thermonuclear reactor.*

UF *tsta*

BT1 *test facilities*

RT *thermonuclear fuels*

RT *thermonuclear reactor fueling*

**TRITIUM TARGET**

ETDE: 1976-07-09

BT1 *targets*

**triton**

2000-03-29

SEE *tritons*

SEE *triturus*

**TRITON BEAMS**

\*BT1 *radioactive ion beams*

RT tritons

## TRITON REACTIONS

\*BT1 charged-particle reactions

## TRITON REACTOR

CEA, Paris, France.

\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

## TRITONS

SF triton  
BT1 charged particles  
NT1 antitritons  
RT tritium  
RT triton beams

## TRITURUS

SF triton  
\*BT1 salamanders

## TRIUMF CYCLOTRON

UF tri-university meson facility  
\*BT1 isochronous cyclotrons

## trochotrons

USE counting tubes

## TROILITE

ETDE: 1976-03-31  
\*BT1 pyrrhotite  
RT iron meteorites

## TROJAN REACTOR

Portland General Electric Co., Prescott, Oregon, USA. Shut down in 1992; decommissioned in 1996.  
\*BT1 pwr type reactors

## trolleybuses

2005-04-20  
USE buses  
USE electric-powered vehicles  
USE trackless vehicles

## trombay r-5 reactor

1986-03-04  
(Prior to March 1986 this was a valid descriptor, and older material is so indexed.)  
USE dhruva reactor

## TROMBE WALLS

INIS: 2000-04-12; ETDE: 1977-10-20  
\*BT1 passive solar heating systems  
BT1 walls  
RT buildings  
RT sensible heat storage

## TROMMELS

INIS: 2000-04-12; ETDE: 1982-04-09  
BT1 screens  
RT particle size classifiers

## TRONA

2000-04-12  
Naturally occurring sodium sesquicarbonate.  
\*BT1 carbonate minerals  
RT sodium carbonates

## TROPICAL MEDICINE

BT1 medicine  
RT tropical regions

## TROPICAL REGIONS

RT climates  
RT savannas  
RT tropical medicine

## TROPOMYOSIN

INIS: 2000-04-12; ETDE: 1980-01-15  
\*BT1 proteins  
RT actin

RT muscles  
RT myosin

## TROPONES

UF cycloheptatrienones  
\*BT1 ketones

## TROPOPAUSE

1999-04-28  
\*BT1 troposphere  
RT boundary layers  
RT global fallout  
RT stratosphere

## TROPOSKIEN SHAPE

2000-04-12  
The shape that a perfectly flexible cable of uniform density and cross section would assume if spun about a vertical axis. If this shape is used for turbine blades operating on a vertical axis, then rotation will not cause the blades to bend, and all stresses will be pure tension.  
BT1 shape  
RT wind turbines

## TROPOSPHERE

1999-04-28  
BT1 earth atmosphere  
NT1 tropopause  
RT air  
RT air-water interactions

## TROUT

\*BT1 fishes  
RT seafood

## TRR-1 REACTOR

Office of Atomic Energy for Peace (OAEF), Ministry of Industry, Bangkok, Thailand.  
UF thai research reactor-1  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

## tru wastes

INIS: 2000-04-12; ETDE: 1981-01-09  
USE alpha-bearing wastes

## truck transport

INIS: 1984-04-04; ETDE: 2002-03-26  
USE road transport  
USE trucks

## TRUCKS

1999-03-15  
(Until March 1999 this concept was indexed by VEHICLES.)  
UF truck transport  
BT1 vehicles  
RT occupants  
RT road tests

## TRUEX PROCESS

INIS: 1989-07-19; ETDE: 1989-08-01  
\*BT1 reprocessing  
RT cmpo  
RT solvent extraction

## TRUST TERRITORY OF THE PACIFIC ISLANDS

INIS: 1992-06-09; ETDE: 1979-12-17  
The territory encompasses more than 2,000 Pacific islets, atolls, and mountainous islands with a population of about 113,000.  
UF palau islands  
BT1 islands  
NT1 mariana islands  
NT2 guam  
RT pacific ocean

RT usa

## truth model

INIS: 1984-04-04; ETDE: 1979-11-07  
(Prior to January 1995, this was a valid ETDE descriptor.)

USE flavor model

## TRW PROCESS

INIS: 2000-04-12; ETDE: 1978-04-27  
Pyritic sulfur is removed by leaching with aqueous ferric sulfate at moderate temperatures, pressures and long retention times. The process employs extensive water washing for sulfate removal. The ferric ion lixiviant is simultaneously regenerated in the reaction chamber using oxygen.  
\*BT1 desulfurization  
RT coal preparation

## trx-1

INIS: 2000-04-12; ETDE: 1982-10-05  
Trx-1 is a 20-cm diameter, 1-m long field-reversed theta pinch with a magnetic field swing of 10kg in 3 microseconds. It employs z discharge preionization and octupole barrier fields to maximize flux trapping on first half cycle operation. Cusp coils are used at the theta pinch ends to delay reconnection and fast mirror coils are used to trigger reconnection at a time designed to maximize axial heating efficiency and toroid lifetime.  
USE reverse-field pinch

## trypaflavine

USE acriflavine

## TRYPAN BLUE

\*BT1 amines  
\*BT1 azo dyes  
\*BT1 naphthols  
\*BT1 sulfonic acids

## TRYPANOSOMA

\*BT1 mastigophora  
BT1 parasites  
RT glossina  
RT trypanosomiasis

## TRYPANOSOMES

2000-04-12  
RT parasites

## TRYPANOSOMIASIS

\*BT1 parasitic diseases  
RT trypanosoma

## TRYPsin

Code number 3.4.21.4.  
\*BT1 serine proteinases  
RT digestion  
RT pancreas

## TRYPTAMINES

1996-06-26  
\*BT1 amines  
\*BT1 indoles  
NT1 melatonin  
NT1 serotonin  
NT2 bufotenine

## TRYPTOPHAN

\*BT1 amino acids  
\*BT1 heterocyclic acids  
\*BT1 indoles  
RT hydroxytryptophan

## tryptophan oxygenase

1997-01-28  
(Until October 1996 this was a valid descriptor.)  
USE oxygenases

**TS-3 DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03  
Tokyo University, Japan.  
\*BT1 spheromak devices

**tschebyscheff approximation**

USE polynomials

**tsetse fly**

USE glossina

**TSH**

UF thyroid stimulating hormone  
\*BT1 pituitary hormones  
RT thyroid hormones  
RT trh

**TSL PROCESS**

INIS: 2000-04-12; ETDE: 1979-11-07  
Coal is dissolved and partially hydrogenated in a process derived solvent (as in src process) and then catalytically hydrocracked in a separate reactor (as in lc-finishing).  
\*BT1 coal liquefaction

**tsp**

INIS: 2000-04-12; ETDE: 1981-05-18  
USE total suspended particulates

**tsp tokamak**

1993-08-09  
USE t-14 tokamak

**TSR-1 REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1958.  
UF tower shielding reactor-1  
\*BT1 enriched uranium reactors  
\*BT1 tank type reactors  
\*BT1 test reactors

**TSR-2 REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1992.  
UF tower shielding reactor-2  
\*BT1 research reactors  
\*BT1 test reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**TSR STORAGE RING**

INIS: 1993-09-16; ETDE: 1993-11-08  
UF heidelberg storage ring  
BT1 storage rings

**tsta**

INIS: 2000-04-12; ETDE: 1983-05-21  
USE tritium systems test assembly

**tsukuba kek synchrotron**

USE kek synchrotron

**TSUNAMIS**

A great sea wave produced by submarine earth movement or volcanic eruption.  
UF tidal waves  
\*BT1 water waves  
RT earthquakes  
RT natural disasters  
RT seas  
RT seismic events  
RT seismic waves

**tsuruga-1 reactor**

INIS: 1983-06-30; ETDE: 1983-07-20  
USE tsuruga reactor

**TSURUGA-2 REACTOR**

INIS: 1983-06-30; ETDE: 1983-07-20  
JAPCO, Tsuruga, Fukui, Japan.  
UF japco-4 reactor  
\*BT1 pwr type reactors

**TSURUGA REACTOR**

JAPCO, Tsuruga, Fukui, Japan.  
UF japco-2 reactor  
UF tsuruga-1 reactor  
\*BT1 bwr type reactors

**TTA**

UF thenoyltrifluoroacetone  
\*BT1 heterocyclic compounds  
\*BT1 ketones  
\*BT1 organic fluorine compounds  
\*BT1 organic sulfur compounds  
RT thiophene

**tff (tetrathiafulvalene)**

INIS: 2000-03-29; ETDE: 2005-02-01  
(Prior to January 2005 TTF was a valid descriptor.)  
USE tetrathiafulvalene

**TTF-TCNQ**

INIS: 2000-05-02; ETDE: 1975-09-30  
UF tetrathiafulvalene  
tetracyanoquinodimethane  
\*BT1 heterocyclic compounds  
\*BT1 nitriles  
\*BT1 organic sulfur compounds  
\*BT1 organic superconductors

**ttmp**

USE transit-time magnetic pumping

**ttr-1 toshiba reactor**

USE toshiba reactor

**tube model**

INIS: 2000-04-12; ETDE: 1980-03-04  
USE coherent tube model

**TUBERCULIN**

BT1 antigens

**TUBERCULOSIS**

1996-10-23  
\*BT1 bacterial diseases  
RT mycobacterium tuberculosis  
RT streptomycin

**TUBERS**

NT1 potatoes  
RT plants

**TUBES**

For objects of tubular shape; see also DRIFT TUBES, ELECTRON TUBES, or IMAGE STORAGE TUBES.

NT1 baffled tubes  
NT1 guide tubes  
NT1 hoses  
NT1 pipes  
NT2 drill pipes  
NT2 marine risers  
NT2 penstocks  
NT1 pressure tubes  
RT borescopes  
RT corrosion denting  
RT coverings  
RT cylinders  
RT ducts  
RT reactor cooling systems  
RT shape  
RT tunnels

**tubes (conduits)**

USE pipes

**tubular pinch devices (linear)**

USE linear hard core pinch devices

**TUBULES**

In kidneys.  
\*BT1 kidneys

RT aldosterone  
RT glomeruli  
RT renal clearance  
RT vasopressin

**TUFF**

A compacted pyroclastic deposit or volcanic ash and dust.  
\*BT1 volcanic rocks

**TULLNERFELD REACTOR**

Zwentendorf, Austria. Construction completed, but dismantled in 1987 without being operated.  
UF zwentendorf reactor  
\*BT1 bwr type reactors

**TUMAN DEVICES**

\*BT1 tokamak devices

**tumbler project**

1996-07-15  
(Until June 1996 this was a valid descriptor.)  
SEE nuclear weapons

**tumbleweeds**

INIS: 2000-04-12; ETDE: 1981-04-17  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE magnoliopsida

**TUMOR CELLS**

UF giant cells  
BT1 animal cells  
NT1 ascites tumor cells  
NT1 hela cells  
RT cell cultures  
RT in vivo  
RT neoplasms

**tumor necrosis factor**

2003-02-10  
SEE radioprotective substances  
SEE response modifying factors

**TUMOR PROMOTERS**

INIS: 1981-07-08; ETDE: 1980-10-07  
Chemical agents which are not mutagenic or carcinogenic in themselves, but which will accelerate the growth of a pre-existing tumor.  
BT1 promoters  
RT carcinogens  
RT mutagens  
RT neoplasms

**tumor viruses**

INIS: 1976-03-25; ETDE: 1975-08-19  
USE oncogenic viruses

**tumors**

USE neoplasms

**tun ismail atomic research center**

INIS: 1985-01-17; ETDE: 1985-02-22  
Malaysia.  
USE puspati

**TUNA**

\*BT1 fishes

**TUNDRA**

RT arctic regions  
RT climates  
RT terrestrial ecosystems

**TUNGSTATES**

1997-06-19  
BT1 oxygen compounds  
\*BT1 tungsten compounds  
NT1 aluminium tungstates  
NT1 ammonium tungstates  
NT1 barium tungstates  
NT1 bismuth tungstates

**NT1** cadmium tungstates  
**NT1** calcium tungstates  
**NT1** cerium tungstates  
**NT1** cesium tungstates  
**NT1** cobalt tungstates  
**NT1** copper tungstates  
**NT1** dysprosium tungstates  
**NT1** erbium tungstates  
**NT1** gadolinium tungstates  
**NT1** hafnium tungstates  
**NT1** indium tungstates  
**NT1** iron tungstates  
**NT1** lanthanum tungstates  
**NT1** lead tungstates  
**NT1** lithium tungstates  
**NT1** lutetium tungstates  
**NT1** manganese tungstates  
**NT1** neodymium tungstates  
**NT1** nickel tungstates  
**NT1** potassium tungstates  
**NT1** praseodymium tungstates  
**NT1** rubidium tungstates  
**NT1** samarium tungstates  
**NT1** scandium tungstates  
**NT1** silver tungstates  
**NT1** sodium tungstates  
**NT1** strontium tungstates  
**NT1** tantalum tungstates  
**NT1** thallium tungstates  
**NT1** thorium tungstates  
**NT1** tin tungstates  
**NT1** titanium tungstates  
**NT1** uranium tungstates  
**NT1** uranyl tungstates  
**NT1** vanadium tungstates  
**NT1** ytterbium tungstates  
**NT1** yttrium tungstates  
**NT1** zinc tungstates  
**NT1** zirconium tungstates

**TUNGSTEN**

*UF* wolfram

\*BT1 refractory metals  
 \*BT1 transition elements  
 NT1 tungsten-alpha

**TUNGSTEN 158**

*INIS: 1986-05-08; ETDE: 1986-07-03*

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 tungsten isotopes

**TUNGSTEN 159**

*INIS: 1986-05-08; ETDE: 1986-07-03*

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 160**

*INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 161**

*INIS: 1986-05-08; ETDE: 1988-12-05*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 162**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 163**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 164**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 165**

*INIS: 1976-02-11; ETDE: 1975-10-01*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 166**

*INIS: 1976-02-11; ETDE: 1975-10-01*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 167**

*INIS: 1985-11-18; ETDE: 1985-12-13*

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 168**

*INIS: 1984-02-23; ETDE: 1984-03-06*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 169**

*INIS: 1985-10-22; ETDE: 1979-09-26*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 170**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 171**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 172**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 173**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 174**

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 175**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 176**

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 177**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 tungsten isotopes

**TUNGSTEN 178**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 tungsten isotopes

**TUNGSTEN 179**

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 180**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 stable isotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 180 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TUNGSTEN 181**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 182**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 stable isotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 182 TARGET**

ETDE: 1976-07-09  
BT1 targets

**TUNGSTEN 183**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 183 REACTIONS**

INIS: 1984-02-23; ETDE: 1984-03-06  
\*BT1 heavy ion reactions

**TUNGSTEN 183 TARGET**

ETDE: 1976-07-09  
BT1 targets

**TUNGSTEN 184**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 stable isotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 184 BEAMS**

INIS: 1977-02-08; ETDE: 1977-04-13  
\*BT1 ion beams

**TUNGSTEN 184 REACTIONS**

INIS: 1982-10-28; ETDE: 1982-11-30  
\*BT1 heavy ion reactions

**TUNGSTEN 184 TARGET**

ETDE: 1976-07-09  
BT1 targets

**TUNGSTEN 185**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 185 TARGET**

INIS: 1985-11-16; ETDE: 1985-12-11  
BT1 targets

**TUNGSTEN 186**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 stable isotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 186 TARGET**

ETDE: 1976-07-09  
BT1 targets

**TUNGSTEN 187**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 tungsten isotopes

**TUNGSTEN 188**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 tungsten isotopes

**TUNGSTEN 189**

- \*BT1 beta-minus decay radioisotopes

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 190**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 191**

2007-04-23

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 tungsten isotopes

**TUNGSTEN 192**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 tungsten isotopes

**TUNGSTEN ADDITIONS**

1996-07-17

*Alloys containing not more than 1% W are listed here.*

- \*BT1 tungsten alloys
- NT1 alloy-ni49cr22fe18mo9
- NT2 hastelloy x
- NT1 alloy-ni50cr22fe18mo9
- NT2 hastelloy xr
- NT1 alloy-ni62cr16mo15fe3
- NT2 hastelloy s
- NT1 steel-ni4crw

**TUNGSTEN ALLOYS**

1996-11-13

*Alloys containing more than 1% W.*

- UF alloy-co64cr29w4
- UF alloy-co66cr26w6
- UF alloy-ehi 868
- UF alloy-ehp-567
- UF alloy-khn60b
- UF alloy-khn60v
- UF alloy-n55m20v25
- UF alloy-n65m20v15
- UF alloy-ni60cr25w15
- UF alloy-ni65mo16cr15w4
- UF alloy-vzh98
- UF stellite 156
- \*BT1 transition element alloys
- NT1 alloy-c-103
- NT1 alloy-co36cr22ni22w15fe3
- NT2 haynes 188 alloy
- NT1 alloy-co43cr20fe18ni13w3
- NT2 havar
- NT1 alloy-co54cr20w15ni10
- NT2 alloy-hs-25
- NT2 haynes 25 alloy
- NT1 alloy-co60cr30w4
- NT2 stellite 6
- NT1 alloy-d-979
- NT1 alloy-in-102
- NT1 alloy-khn50mbvyu
- NT1 alloy-mar-m246
- NT1 alloy-mn-21
- NT1 alloy-mo-re-1
- NT1 alloy-ni54mo17cr16fe6w4
- NT2 hastelloy c
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ra-333
- NT1 alloy-s-590
- NT1 alloy-s-816
- NT1 alloy-ta90w8hf
- NT2 tantalum alloy-t111
- NT1 alloy-v-36
- NT1 astar 811c
- NT1 carboly

- NT1 magnet steel-ks
- NT1 miduale
- NT1 rene 80
- NT1 rene 95
- NT1 supertherm
- NT1 tungsten additions
- NT2 alloy-ni49cr22fe18mo9
- NT3 hastelloy x
- NT2 alloy-ni50cr22fe18mo9
- NT3 hastelloy xr
- NT2 alloy-ni62cr16mo15fe3
- NT3 hastelloy s
- NT2 steel-ni4crw
- NT1 tungsten base alloys
- NT2 alloy-mo-re-2
- NT1 tungsten bronze
- NT1 udimet 500

**TUNGSTEN-ALPHA**

INIS: 1985-10-23; ETDE: 1985-11-19  
\*BT1 tungsten

**TUNGSTEN BASE ALLOYS**

- \*BT1 tungsten alloys
- NT1 alloy-mo-re-2

**TUNGSTEN BORIDES**

- \*BT1 borides
- \*BT1 tungsten compounds

**TUNGSTEN BROMIDES**

- \*BT1 bromides
- \*BT1 tungsten compounds

**TUNGSTEN BRONZE**

- \*BT1 copper base alloys
- \*BT1 tungsten alloys

**TUNGSTEN CARBIDES**

- \*BT1 carbides
- \*BT1 tungsten compounds

**TUNGSTEN CHLORIDES**

- \*BT1 chlorides
- \*BT1 tungsten compounds

**TUNGSTEN COMPLEXES**

- \*BT1 transition element complexes

**TUNGSTEN COMPOUNDS**

1997-06-19

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 tungstates
- NT2 aluminium tungstates
- NT2 ammonium tungstates
- NT2 barium tungstates
- NT2 bismuth tungstates
- NT2 cadmium tungstates
- NT2 calcium tungstates
- NT2 cerium tungstates
- NT2 cesium tungstates
- NT2 cobalt tungstates
- NT2 copper tungstates
- NT2 dysprosium tungstates
- NT2 erbium tungstates
- NT2 gadolinium tungstates
- NT2 hafnium tungstates
- NT2 indium tungstates
- NT2 iron tungstates
- NT2 lanthanum tungstates
- NT2 lead tungstates
- NT2 lithium tungstates
- NT2 lutetium tungstates
- NT2 manganese tungstates
- NT2 neodymium tungstates
- NT2 nickel tungstates
- NT2 potassium tungstates
- NT2 praseodymium tungstates
- NT2 rubidium tungstates
- NT2 samarium tungstates
- NT2 scandium tungstates

**NT2** silver tungstates  
**NT2** sodium tungstates  
**NT2** strontium tungstates  
**NT2** tantalum tungstates  
**NT2** thallium tungstates  
**NT2** thorium tungstates  
**NT2** tin tungstates  
**NT2** titanium tungstates  
**NT2** uranium tungstates  
**NT2** uranyl tungstates  
**NT2** vanadium tungstates  
**NT2** ytterbium tungstates  
**NT2** yttrium tungstates  
**NT2** zinc tungstates  
**NT2** zirconium tungstates  
**NT1** tungsten borides  
**NT1** tungsten bromides  
**NT1** tungsten carbides  
**NT1** tungsten chlorides  
**NT1** tungsten fluorides  
**NT1** tungsten hydrides  
**NT1** tungsten hydroxides  
**NT1** tungsten iodides  
**NT1** tungsten nitrides  
**NT1** tungsten oxides  
**NT2** sodium tungsten bronze  
**NT1** tungsten phosphides  
**NT1** tungsten selenides  
**NT1** tungsten silicides  
**NT1** tungsten sulfides  
**NT1** tungsten tellurides  
**NT1** tungstophosphates  
**NT1** tungstophosphoric acid

**TUNGSTEN FLUORIDES**

\*BT1 fluorides  
 \*BT1 tungsten compounds

**TUNGSTEN HYDRIDES**

1977-01-26  
 \*BT1 hydrides  
 \*BT1 tungsten compounds

**TUNGSTEN HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 tungsten compounds

**TUNGSTEN IODIDES**

\*BT1 iodides  
 \*BT1 tungsten compounds

**TUNGSTEN IONS**

\*BT1 ions

**TUNGSTEN ISOTOPES**

1999-07-16  
**BT1** isotopes  
**NT1** tungsten 158  
**NT1** tungsten 159  
**NT1** tungsten 160  
**NT1** tungsten 161  
**NT1** tungsten 162  
**NT1** tungsten 163  
**NT1** tungsten 164  
**NT1** tungsten 165  
**NT1** tungsten 166  
**NT1** tungsten 167  
**NT1** tungsten 168  
**NT1** tungsten 169  
**NT1** tungsten 170  
**NT1** tungsten 171  
**NT1** tungsten 172  
**NT1** tungsten 173  
**NT1** tungsten 174  
**NT1** tungsten 175  
**NT1** tungsten 176  
**NT1** tungsten 177  
**NT1** tungsten 178  
**NT1** tungsten 179  
**NT1** tungsten 180  
**NT1** tungsten 181

**NT1** tungsten 182  
**NT1** tungsten 183  
**NT1** tungsten 184  
**NT1** tungsten 185  
**NT1** tungsten 186  
**NT1** tungsten 187  
**NT1** tungsten 188  
**NT1** tungsten 189  
**NT1** tungsten 190  
**NT1** tungsten 191  
**NT1** tungsten 192

**TUNGSTEN NITRIDES**

\*BT1 nitrides  
 \*BT1 tungsten compounds

**TUNGSTEN ORES**

**BT1** ores

**TUNGSTEN OXIDES**

\*BT1 oxides  
 \*BT1 tungsten compounds  
**NT1** sodium tungsten bronze  
*RT* oxide minerals  
*RT* tungstophosphoric acid  
*RT* wolframite

**TUNGSTEN PHOSPHIDES**

1979-09-18; ETDE: 1976-07-07  
 \*BT1 phosphides  
 \*BT1 tungsten compounds

**TUNGSTEN SELENIDES**

1978-07-31  
 \*BT1 selenides  
 \*BT1 tungsten compounds

**TUNGSTEN SILICIDES**

1975-10-29  
 \*BT1 silicides  
 \*BT1 tungsten compounds

**TUNGSTEN SULFIDES**

\*BT1 sulfides  
 \*BT1 tungsten compounds

**TUNGSTEN TELLURIDES**

2000-04-12  
 \*BT1 tellurides  
 \*BT1 tungsten compounds

**tungsten water moderated reactor**

2000-04-12  
 USE twmr reactor

**TUNGSTOPHOSPHATES**

1988-02-02  
**BT1** oxygen compounds  
**BT1** phosphorus compounds  
 \*BT1 tungsten compounds  
*RT* tungstophosphoric acid

**TUNGSTOPHOSPHORIC ACID**

*UF* phosphotungstic acid  
*UF* phosphowolframic acid  
*UF* wolframophosphoric acid  
 \*BT1 inorganic acids  
**BT1** oxygen compounds  
**BT1** phosphorus compounds  
 \*BT1 tungsten compounds  
*RT* heteropolyanions  
*RT* phosphoric acid  
*RT* tungsten oxides  
*RT* tungstophosphates

**TUNING**

1975-08-22  
**NT1** frequency selection  
**NT1** mode selection  
*RT* cavity resonators  
*RT* frequency control  
*RT* resonance  
*RT* rf systems

*RT* synchronization

**TUNISIA**

**BT1** africa  
**BT1** arab countries  
**BT1** developing countries

**TUNISIAN ORGANIZATIONS**

2004-03-31  
**BT1** national organizations

**TUNNEL DIODES**

\*BT1 semiconductor diodes  
*RT* schottky barrier diodes

**TUNNEL EFFECT**

*RT* superconducting junctions  
*RT* superconductivity

**TUNNEL FURNACES**

INIS: 2000-04-12; ETDE: 1976-03-11  
*UF* tunnel kilns  
**BT1** furnaces

**tunnel kilns**

INIS: 2000-04-12; ETDE: 1976-03-11  
 USE tunnel furnaces

**TUNNELING**

INIS: 1993-08-02; ETDE: 1978-05-03  
 Not for the concept of electron tunneling, for which use TUNNEL EFFECT.  
*RT* shaft excavations  
*RT* tunnels  
*RT* underground mining

**TUNNELING MACHINES**

INIS: 1999-05-20; ETDE: 1985-04-09  
**BT1** equipment  
*RT* excavation  
*RT* mining equipment

**TUNNELS**

1997-06-17  
**BT1** underground facilities  
**NT1** mine roadways  
*RT* excavation  
*RT* mine drivage  
*RT* mines  
*RT* shaft excavations  
*RT* subsurface structures  
*RT* subterrene penetrators  
*RT* tubes  
*RT* tunneling  
*RT* wind tunnels

**TURBELLARIA**

\*BT1 platyhelminths  
**NT1** planaria

**TURBIDITY**

*RT* suspensions

**TURBINE BLADES**

*UF* blades (turbines)  
*RT* compressor blades  
*RT* turbines

**turbine pumps**

INIS: 2000-04-12; ETDE: 1980-01-24  
 USE pump turbines

**TURBINES**

*UF* velocity-pumps reaction turbines  
*SF* krov machine  
 \*BT1 turbomachinery  
**NT1** gas turbines  
**NT2** coal-fired gas turbines  
**NT1** hydraulic turbines  
**NT2** pump turbines  
**NT1** radial inflow turbines  
**NT1** radial-outflow reaction turbines  
**NT1** rotary separator turbines



**NT1** steam turbines  
**NT1** wind turbines  
**NT2** diffuser augmented turbines  
**NT2** horizontal axis turbines  
**NT2** vertical axis turbines  
**NT3** giromill turbines  
**NT3** tornado turbines  
**NT2** vortex augmented turbines  
*RT* helical rotary screw expander  
*RT* hydroelectric power plants  
*RT* turbine blades  
*RT* turbochargers  
*RT* turbodrills  
*RT* working fluids

**TURBOCHARGERS**

*INIS: 2000-04-12; ETDE: 1985-04-09*

\*BT1 superchargers  
 \*BT1 turbomachinery  
*RT* turbines

**TURBODRILLS**

*INIS: 2000-04-12; ETDE: 1981-08-21*

\*BT1 rotary drills  
 \*BT1 turbomachinery  
*RT* drilling  
*RT* turbines

**TURBOFAN ENGINES**

*INIS: 2000-04-12; ETDE: 1984-05-23*

\*BT1 internal combustion engines  
 \*BT1 turbomachinery  
*RT* turbojet engines

**TURBOGENERATORS**

*SF* braun standard turbine island  
*SF* c f braun standard turbine island  
 \*BT1 electric generators  
 \*BT1 turbomachinery  
*RT* hydraulic turbines

**TURBOJET ENGINES**

*1992-06-12*

\*BT1 internal combustion engines  
 \*BT1 turbomachinery  
*RT* turbofan engines

**TURBOMACHINERY**

*INIS: 1997-06-19; ETDE: 1976-09-28*

\*BT1 machinery  
**NT1** turbines  
**NT2** gas turbines  
**NT3** coal-fired gas turbines  
**NT2** hydraulic turbines  
**NT3** pump turbines  
**NT2** radial inflow turbines  
**NT2** radial-outflow reaction turbines  
**NT2** rotary separator turbines  
**NT2** steam turbines  
**NT2** wind turbines  
**NT3** diffuser augmented turbines  
**NT3** horizontal axis turbines  
**NT3** vertical axis turbines  
**NT4** giromill turbines  
**NT4** tornado turbines  
**NT3** vortex augmented turbines  
**NT1** turbochargers  
**NT1** turbodrills  
**NT1** turbofan engines  
**NT1** turbogenerators  
**NT1** turbojet engines  
*RT* compressors  
*RT* pumps

**TURBOMOLECULAR PUMPS**

\*BT1 vacuum pumps

**TURBULENCE**

*RT* attractors  
*RT* diffusion  
*RT* fluid flow  
*RT* hurricanes

*RT* mixing  
*RT* stirring  
*RT* tornadoes  
*RT* turbulent flow  
*RT* vortices  
*RT* wind

**TURBULENT FLOW**

*UF* supercritical flow  
**BT1** fluid flow  
*RT* critical flow  
*RT* laminar flow  
*RT* reynolds number  
*RT* richardson number  
*RT* turbulence  
*RT* two-phase flow  
*RT* viscous flow

**TURBULENT HEATING**

\*BT1 plasma heating

**TURKEY**

*1997-06-17*

*UF* marmara sea  
*UF* marmora sea  
*UF* sea of marmara  
**BT1** asia  
**BT1** developing countries  
**BT1** middle east  
*RT* black sea  
*RT* kizildere geothermal field  
*RT* oecd  
*RT* tigris river

**TURKEY POINT-3 REACTOR**

*Florida Power and Light Co., Florida City, Florida, USA.*

\*BT1 pwr type reactors

**TURKEY POINT-4 REACTOR**

*Florida Power and Light Co., Florida City, Florida, USA.*

\*BT1 pwr type reactors

**TURKISH ATOMIC ENERGY AUTHORITY**

*2003-08-27*

\*BT1 turkish organizations

**TURKISH ORGANIZATIONS**

*2003-08-26*

**BT1** national organizations  
**NT1** turkish atomic energy authority

**turkish reactor-1**

USE tr-1 reactor

**turkish reactor-2**

*1991-07-02*

USE tr-2 reactor

**TURKMENISTAN**

*INIS: 1997-08-20; ETDE: 1993-04-08*

(Until January 1993, this was indexed by USSR.)

*SF* soviet union  
*SF* union of soviet socialist republics  
*SF* ussr  
**BT1** asia  
*RT* caspian sea

**turku cyclotron**

USE aabo cyclotron

**turnips**

USE brassica

**turnover (radionuclides)**

USE radionuclide kinetics

**TURPENTINE**

\*BT1 organic solvents  
 \*BT1 terpenes

*RT* hydrocarbons

**TURTLES**

\*BT1 reptiles

**TUVALU**

*1991-07-02*

\*BT1 micronesia  
*RT* pacific ocean

**tva**

*INIS: 1977-01-25; ETDE: 1976-01-07*

USE tennessee valley authority

**TVA-1 REACTOR**

*TVA, USA. Canceled before construction began.*

*UF* tennessee valley authority reactor-1  
 \*BT1 pwr type reactors

**TVA-2 REACTOR**

*TVA, USA. Canceled before construction began.*

*UF* tennessee valley authority reactor-2  
 \*BT1 pwr type reactors

**tvo-1 reactor**

*INIS: 1997-06-19; ETDE: 1976-08-24*

*Name changed in June 1997 to OLKILUOTO-1 REACTOR.*

(Until then this was a valid descriptor.)

USE olkiluoto-1 reactor

**tvo-2 reactor**

*INIS: 1997-06-19; ETDE: 1976-08-24*

*Name changed in June 1997 to OLKILUOTO-2 REACTOR.*

(Until then this was a valid descriptor.)

USE olkiluoto-2 reactor

**tvo-3 reactor**

*2005-09-08*

USE olkiluoto-3 reactor

**TWINNING**

*RT* crystal structure  
*RT* microstructure  
*RT* slip

**TWISTOR THEORY**

*INIS: 1978-07-31; ETDE: 1975-08-19*

*Quantized points of space-time.*

*UF* penrose twistor theory  
*RT* gravitation  
*RT* quantum mechanics  
*RT* space-time  
*RT* unified-field theories

**TWMR REACTOR**

*2000-04-12*

*UF* tungsten water moderated reactor

\*BT1 space propulsion reactors

\*BT1 water moderated reactors

**TWO-BODY PROBLEM**

**BT1** many-body problem  
*RT* resonating-group method

**TWO-COMPONENT NEUTRINO THEORY**

*RT* beta decay  
*RT* neutrinos  
*RT* spin

**TWO-COMPONENT TORUS**

*INIS: 1976-03-02; ETDE: 1975-11-26*

*UF* tct

\*BT1 tokamak devices

**TWO-DIMENSIONAL CALCULATIONS**

*UF* 2-dimensional calculations  
*UF* calculations (2-dimensional)

RT adjoint difference method  
 RT ising model  
 RT many-dimensional calculations  
 RT mathematics  
 RT surfaces

## TWO-DIMENSIONAL ELECTROPHORESIS

INIS: 1993-08-03; ETDE: 1987-05-06

BT1 electrophoresis  
 RT fractionation  
 RT nucleic acids

### two-fireball model

USE fireball model

### two-fluid theory

USE landau liquid helium theory

## TWO-NUCLEON TRANSFER REACTIONS

\*BT1 multi-nucleon transfer reactions

## TWO-PHASE FLOW

BT1 fluid flow  
 RT boiling  
 RT gas flow  
 RT heat transfer  
 RT liquid flow  
 RT richardson number  
 RT turbulent flow

## TWO-STREAM INSTABILITY

\*BT1 plasma microinstabilities  
 RT fluid flow

### tybo event

INIS: 2000-04-12; ETDE: 1976-03-11

A test made during PROJECT BEDROCK.

(Prior to January 1995, this was a valid ETDE descriptor.)

USE nuclear explosions  
 USE underground explosions

### tyco process

2000-04-12

Process for removal of sulfur dioxide, nitrogen monoxide, and nitrogen dioxide from flue gases.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

## TYPE-I SUPERCONDUCTORS

BT1 superconductors

## TYPE-II SUPERCONDUCTORS

2000-05-30

UF type-iii superconductors

BT1 superconductors  
 NT1 high-*tc* superconductors

### type-iii superconductors

USE type-ii superconductors

## TYPHOID

\*BT1 bacterial diseases  
 RT salmonella

## TYPHUS

\*BT1 rickettsial diseases  
 RT rickettsiae

## TYRAMINE

\*BT1 amines  
 \*BT1 phenols  
 \*BT1 sympathomimetics

## TYRONE-1 REACTOR

Northern States Power Co., Durand, Wisconsin, USA. Canceled in 1979 before construction began.

\*BT1 pwr type reactors

## TYRONE-2 REACTOR

Northern States Power Co., Durand, Wisconsin, USA. Canceled in 1974 before construction began.

\*BT1 pwr type reactors

## TYROSINASE

\*BT1 hydroxylases

## TYROSINE

\*BT1 amino acids  
 \*BT1 hydroxy acids  
 RT diiodotyrosine  
 RT melanin  
 RT methyl tyrosine  
 RT phenylalanine

## TYUYAMUNITE

\*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT calcium oxides  
 RT uranium oxides  
 RT vanadium oxides

## TZ1 REACTOR

INIS: 1985-06-07; ETDE: 1985-07-18

UF tammuz-1 reactor

\*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

## TZ2 REACTOR

INIS: 1985-06-07; ETDE: 1985-07-18

UF tammuz-2 reactor

\*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

### tzm

INIS: 2000-04-12; ETDE: 1978-12-20

USE alloy-mo99

## U-1 GROUPS

\*BT1 u groups

## U-12 GROUPS

\*BT1 u groups

## U-2 GROUPS

\*BT1 u groups

## u-2375 resonances

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE f4-2300 mesons

## U-3 GROUPS

\*BT1 u groups

## U-4 GROUPS

\*BT1 u groups

## U-5 GROUPS

INIS: 1986-08-19; ETDE: 1986-09-05

\*BT1 u groups

## U-6 GROUPS

\*BT1 u groups

## U ANTIQUARKS

2007-06-26

\*BT1 antiquarks  
 \*BT1 u quarks

## U CENTERS

\*BT1 color centers

## U CHANNEL

RT mandelstam representation  
 RT particle interactions

RT s channel

RT t channel

## U CODES

BT1 computer codes

## U-GAS PROCESS

1994-07-01

Institute of Gas Technology process for producing low-btu gas (140 btu/scf) by reacting crushed coal with air and steam in a single-stage fluidized-bed gasifier at 350 psi and 1900 degrees F.

\*BT1 coal gasification

## U GROUPS

\*BT1 lie groups  
 NT1 u-1 groups  
 NT1 u-12 groups  
 NT1 u-2 groups  
 NT1 u-3 groups  
 NT1 u-4 groups  
 NT1 u-5 groups  
 NT1 u-6 groups  
 RT unitary symmetry

## u processes

USE umklapp processes

## U QUARKS

INIS: 1995-09-08; ETDE: 1995-10-03

\*BT1 quarks  
 NT1 u antiquarks  
 RT quarkonium

## U VALUES

INIS: 2000-04-12; ETDE: 1978-04-06

Values for heat transfer through materials in btu/hr per unit area as a function of the temperature gradient.

RT building materials  
 RT heat transfer  
 RT r factors

## u3o8

INIS: 1985-11-18; ETDE: 1975-10-02

(Prior to December 1985 this was a valid descriptor.)

USE uranium oxides u3o8

## uar

USE egyptian arab republic

## UBIQUINONE

\*BT1 benzoquinones  
 BT1 coenzymes  
 RT vitamin k

## UCAP PROCESS

INIS: 2000-04-12; ETDE: 1980-05-06

\*BT1 desulfurization  
 RT claus process

## UCBRR REACTOR

Berkeley Research Reactor, Univ. of California, Berkeley, California, USA. Shut down in 1987.

UF berkeley research reactor  
 UF berkeley triga reactor  
 UF california berkeley triga reactor  
 UF university of california, berkeley triga reactor  
 UF university of california berkeley reactor

\*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**ucirr reactor**

1985-07-19

(Prior to July 1985, this was a valid ETDE descriptor.)

USE triga-1-california reactor

**UCLA**

2000-05-22

UF university of california / los angeles

RT california

RT us doe

**uclbl**

USE lawrence berkeley laboratory

**uclll**

USE lawrence livermore laboratory

**UCLRL CYCLOTRONS**

\*BT1 isochronous cyclotrons

NT1 lbl 88-inch cyclotron

**UDIMET 500**

INIS: 2000-04-12; ETDE: 1979-09-06

\*BT1 tungsten alloys

\*BT1 udimet alloys

**UDIMET 700**

1983-11-07

\*BT1 alloy-ni53co19cr15mo5al4ti3

**UDIMET ALLOYS**

\*BT1 chromium alloys

\*BT1 cobalt alloys

\*BT1 heat resisting alloys

\*BT1 molybdenum alloys

\*BT1 nickel base alloys

\*BT1 titanium alloys

NT1 alloy-ni53co19cr15mo5al4ti3

NT2 udimet 700

NT1 udimet 500

**udpg (uridine diphosphoglucose)**

INIS: 2005-01-17; ETDE: 2005-02-01

(Prior to January 2005 UDPG was a valid descriptor.)

USE uridine diphosphoglucose

**UFTR REACTOR**

Univ. of Florida, Gainesville, Florida, USA.

UF florida university reactor

UF university of florida reactor

\*BT1 argonaut type reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**UGANDA**

BT1 africa

BT1 developing countries

**uhde-pfirmsmann process**

2000-04-12

A direct conversion of coal to synthetic crude oil by hydrogenation during and after solvent extraction.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal liquefaction

**uhf (lower range)**

USE ghz range 01-100

**uhf (upper range)**

USE ghz range 100-1000

**uhf radiation (01-100 ghz)**

USE ghz range 01-100

USE radiowave radiation

**uhf radiation (100-1000 mhz)**

USE mhz range 100-1000

USE radiowave radiation

**uhf radiation (lower range)**

USE mhz range 100-1000

USE radiowave radiation

**uhf radiation (upper range)**

USE ghz range 01-100

USE radiowave radiation

**UHTREX REACTOR**

LANL, Los Alamos, New Mexico, USA.

UF ultrahigh temperature reactor experiment

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 graphite moderated reactors

\*BT1 helium cooled reactors

\*BT1 thermal reactors

**UHV AC SYSTEMS**

INIS: 2000-04-12; ETDE: 1976-05-17

Over 765 kV.

UF ultrahigh voltage alternating current systems

\*BT1 ac systems

**UHV DC SYSTEMS**

INIS: 1992-03-09; ETDE: 1976-05-17

Over 765 kV.

UF ultrahigh voltage dc systems

UF ultrahigh voltage direct current systems

\*BT1 dc systems

**UINTA BASIN**

2000-04-12

RT colorado

RT oil shale deposits

RT uinta formation

RT utah

**UINTA FORMATION**

INIS: 2000-04-12; ETDE: 1975-12-16

Strata of eocene age and continental origin occurring typically in the Uinta Basin in Utah and Colorado.

\*BT1 green river formation

RT colorado

RT oil shale deposits

RT oil shales

RT uinta basin

RT utah

**UJD**

2002-12-17

Organisation responsible for use of nuclear energy in Slovakia.

UF nuclear regulatory authority of the slovak republic

UF slovak nuclear regulatory authority

UF urad jadroveho dozoru slovenskej republiky

\*BT1 slovak organizations

**ujm**

INIS: 1976-08-17; ETDE: 1976-11-02

Uncorrelated-jet model.

USE jet model

**UVJ**

1997-11-05

Nuclear Research Institute, Rez, Czech Republic.

UF ustav jaderneho vyzkumu

UF ustav jadernych vyzkumu

\*BT1 czech organizations

**uk atomic energy authority**

1977-03-14

USE ukaea

**UK NATIONAL PHYSICAL LABORATORY**

INIS: 1994-08-12; ETDE: 1983-03-07

(Until August 1994 this descriptor was spelled UK NATIONAL PHYSICAL LAB.)

\*BT1 united kingdom organizations

**UK NII**

INIS: 1983-06-02; ETDE: 1983-07-07

HM Nuclear Installations Inspectorate.

UF nii (uk)

UF nuclear installations inspectorate

UF uk nuclear installations inspectorate

\*BT1 united kingdom organizations

**uk nuclear installations inspectorate**

INIS: 1993-11-10; ETDE: 1983-07-07

USE uk nii

**uk royal naval college-jason reactor**

1993-11-10

USE jason reactor

**UKAEA**

UF uk atomic energy authority

\*BT1 united kingdom organizations

NT1 aere

NT1 culham laboratory

RT united kingdom

**ukaea-dido reactor**

USE dido reactor

**ukaea-juno reactor**

USE junno reactor

**ukaea-lido reactor**

USE lido reactor

**ukaea-merlin reactor**

2000-04-12

USE merlin reactor

**ukaea-nestor reactor**

USE nestor reactor

**UKNR REACTOR**

2000-04-12

Univ. of Kansas, Lawrence, Kansas, USA.

UF university of kansas nuclear reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**UKRAINE**

INIS: 1997-08-20; ETDE: 1993-02-08

(Until January 1993, this was indexed by UKRAINIAN SSR.)

UF ukrainian ssr

SF soviet union

SF union of soviet socialist republics

SF ussr

\*BT1 eastern europe

NT1 crimea

RT black sea

RT danube river

RT dneiper river

RT pripet river

**UKRAINIAN ORGANIZATIONS**

INIS: 1999-07-08; ETDE: 1999-08-30

BT1 national organizations

**ukrainian ssr**

1993-02-02

(Until January 1993, this was a valid descriptor.)

USE ukraine

**ulcc**

INIS: 2000-04-12; ETDE: 1976-08-04  
USE tanker ships

**ULCERS**

BT1 pathological changes  
RT fistulae  
RT gangrene  
RT necrosis

**ULCHIN-1 REACTOR**

1991-07-02  
Ulchin, Republic of Korea.  
UF knu-9 reactor  
UF uljin-1 reactor  
\*BT1 pwr type reactors

**ULCHIN-2 REACTOR**

1991-07-02  
Ulchin, Republic of Korea.  
UF knu-10 reactor  
UF uljin-2 reactor  
\*BT1 pwr type reactors

**ULCHIN-3 REACTOR**

INIS: 1997-10-03; ETDE: 1998-02-24  
Ulchin, Republic of Korea.  
\*BT1 pwr type reactors

**ULCHIN-4 REACTOR**

INIS: 1997-10-03; ETDE: 1998-02-24  
Ulchin, Republic of Korea.  
\*BT1 pwr type reactors

**uljin-1 reactor**

1991-07-02  
USE ulchin-1 reactor

**uljin-2 reactor**

1991-07-02  
USE ulchin-2 reactor

**ultimate storage**

INIS: 1982-12-06; ETDE: 2002-05-11  
USE waste disposal

**ULTIMATE STRENGTH**

1980-05-14  
UF strength (ultimate)  
BT1 mechanical properties  
RT tensile properties

**ULTRACENTRIFUGATION**

\*BT1 centrifugation  
RT cell constituents  
RT centrifuge enrichment plants  
RT gas centrifugation  
RT subcellular distribution

**ultracentrifuge enrichment plants**

INIS: 1978-02-23; ETDE: 1978-04-27  
USE centrifuge enrichment plants

**ULTRACENTRIFUGES**

\*BT1 centrifuges  
RT centrifugation  
RT gas centrifuges  
RT isotope separation

**ULTRACOLD NEUTRONS**

\*BT1 cold neutrons  
RT neutron converters  
RT neutron guides

**ULTRAFILTRATION**

\*BT1 filtration  
RT filters  
RT glomeruli  
RT sampling

**ultrahigh frequency (lower range)**

1993-11-10  
USE ghz range 01-100

**ultrahigh frequency (upper range)**

1993-11-10  
USE ghz range 100-1000

**ultrahigh frequency radiation (01-100 ghz)**

1993-11-10  
USE ghz range 01-100  
USE radiowave radiation

**ultrahigh frequency radiation (100-1000 mhz)**

1993-11-10  
USE mhz range 100-1000  
USE radiowave radiation

**ultrahigh frequency radiation (lower range)**

1993-11-10  
USE mhz range 100-1000  
USE radiowave radiation

**ultrahigh frequency radiation (upper range)**

1993-11-10  
USE ghz range 01-100  
USE radiowave radiation

**ULTRAHIGH-SPEED PHOTOGRAPHY**

BT1 photography

**ultrahigh temperature**

1992-07-03  
(Prior to February 1992, this was a valid ETDE descriptor.)  
USE temperature range over 4000 k

**ultrahigh temperature reactor experiment**

1993-11-10  
USE ultrex reactor

**ultrahigh vacuum**

(Prior to November 2003 this was a valid descriptor.)  
SEE pressure range below 1 nano pa  
SEE pressure range micro pa  
SEE pressure range nano pa

**ultrahigh voltage alternating current systems**

INIS: 2000-04-12; ETDE: 1976-05-17  
USE uhv ac systems

**ultrahigh voltage dc systems**

INIS: 1992-03-09; ETDE: 2002-05-11  
USE uhv dc systems

**ultrahigh voltage direct current systems**

INIS: 2000-04-12; ETDE: 1976-05-17  
USE uhv dc systems

**ULTRALOW FREQUENCY RADIATION**

\*BT1 electromagnetic radiation

**ultralow temperature**

1992-01-23  
(Prior to February 1992, this was a valid ETDE descriptor.)  
USE temperature range 0000-0013 k

**ultramarine**

1996-07-15  
(Until June 1996 this was a valid descriptor.)  
USE pigments

**ULTRASONIC BUBBLE CHAMBERS**

\*BT1 bubble chambers

**ULTRASONIC MACHINING**

BT1 machining

**ULTRASONIC TESTING**

\*BT1 acoustic testing  
RT acoustic measurements  
RT ultrasonic waves

**ULTRASONIC WAVES**

UF ultrasonics  
BT1 sound waves  
RT cavitation  
RT ultrasonic testing  
RT ultrasonography

**ULTRASONIC WELDING**

\*BT1 welding

**ultrasonics**

USE ultrasonic waves

**ULTRASONOGRAPHY**

INIS: 1986-05-26; ETDE: 1978-09-11  
UF echography  
BT1 diagnostic techniques  
RT ultrasonic waves

**ULTRASTRUCTURAL CHANGES**

BT1 morphological changes  
RT biological repair  
RT cell constituents  
RT cytology  
RT electron microscopy  
RT photoreactivation

**ULTRAVIOLET DIVERGENCES**

UF divergences (ultraviolet)  
RT quantum electrodynamics

**ULTRAVIOLET RADIATION**

\*BT1 electromagnetic radiation  
NT1 extreme ultraviolet radiation  
NT1 far ultraviolet radiation  
NT1 near ultraviolet radiation  
RT photoreactivation  
RT raman effect  
RT ultraviolet spectra

**ULTRAVIOLET SPECTRA**

2000-05-22  
BT1 spectra  
NT1 extreme ultraviolet spectra  
RT absorption spectroscopy  
RT electronic structure  
RT structural chemical analysis  
RT ultraviolet radiation

**ULTRAVIOLET SPECTROMETERS**

INIS: 1978-08-14; ETDE: 1978-10-19  
\*BT1 spectrometers

**ULVA**

\*BT1 algae

**ulyanovsk reactor vk-50**

USE vk-50 reactor

**ULYSSE REACTOR**

INSTN, CEN, Saclay, France.  
\*BT1 argonaut type reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**UMKLAPP PROCESSES**

UF u processes  
\*BT1 electromagnetic interactions  
RT crystals  
RT electric conductivity  
RT electrons  
RT phonons

RT thermal conductivity

### umm al qaiwan

INIS: 1992-05-07; ETDE: 1976-08-05

USE united arab emirates

### UMNE-1 REACTOR

Univ. of Maryland, College Park, Maryland, USA.

UF maryland univ. reactor

UF umr reactor

UF university of maryland reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

### umohoite

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE oxide minerals

USE uranium minerals

### UMP

1982-02-09

UF uridine monophosphate

\*BT1 nucleotides

RT uridine

### umr reactor

USE umne-1 reactor

### UMRR REACTOR

Univ. of Missouri-Rolla, Rolla, Missouri, USA.

UF missouri school of mines reactor

UF missouri university/rolla research reactor

UF msmr reactor

UF rolla research reactor

UF university of missouri/rolla research reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

### un scientific committee on effects of atomic radiation

INIS: 1993-11-10; ETDE: 2002-05-11

USE unscar

### unbihexium

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 126

### unbinilium

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 120

### unbioctium

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 128

### uncertainty in data values

INIS: 1985-12-10; ETDE: 1981-08-21

USE data covariances

### UNCERTAINTY PRINCIPLE

UF heisenberg principle

RT quantum mechanics

### uncorrelated-jet model

INIS: 1976-08-17; ETDE: 1976-11-02

USE jet model

### UNCORRELATED-PARTICLE MODEL

\*BT1 particle models

RT jet model

### UNDERGROUND

(From November 1976 till March 1997

UNDERGROUND SPACE was a valid ETDE descriptor.)

SF subsurface environments

SF underground space

BT1 levels

RT aquifers

RT ground water

RT soils

RT underground storage

### underground buildings

INIS: 2000-04-12; ETDE: 1977-09-19

USE earth-covered buildings

### UNDERGROUND DISPOSAL

For disposal of wastes deep underground.

SF waste burial

\*BT1 waste disposal

RT asse salt mine

RT backfilling

RT boom clay

RT disposal wells

RT gases

RT gorleben salt dome

RT ground cover

RT ground disposal

RT hydraulic conductivity

RT konrad ore mine

RT morsleben salt mine

RT radioactive waste disposal

RT reinjection

RT salt deposits

RT shaft excavations

RT underground facilities

### UNDERGROUND EXPLOSIONS

1996-07-23

(The UF references have been valid ETDE descriptors.)

UF agrini event

UF almendro event

UF baneberry event

UF benham event

UF bowline operation

UF boxcar event

UF calabash event

UF cannikin event

UF carpetbag event

UF dining car event

UF emery operation

UF essex i project

UF faultless event

UF flintlock operation

UF fulcrum operation

UF fusileer operation

UF greeley event

UF halfbeak event

UF handcar event

UF handley event

UF husky ace event

UF hutch event

UF jorum event

UF latir event

UF marvel event

UF mighty epic event

UF milrow event

UF miniata event

UF palanquin event

UF pin stripe event

UF portmanteau event

UF redmud event

UF rulison event

UF schooner event

UF scotch event

UF tybo event

BT1 explosions

NT1 arbor project

NT1 contained explosions

NT1 crosstie operation

NT2 gasbuggy event

NT1 grommet operation

NT1 latchkey operation

NT1 mandrel operation

NT1 nougat operation

NT1 sun beam operation

NT1 toggle operation

NT2 rio blanco event

NT1 whetstone operation

RT anvil project

RT bedrock project

RT cavities

RT chemical explosions

RT chimneys

RT cratering explosions

RT craters

RT explosive fracturing

RT explosive stimulation

RT ground motion

RT in-country detection

RT in-situ processing

RT landslides

RT mining

RT nuclear excavation

RT nuclear explosion detection

RT nuclear explosions

RT plowshare project

RT praetorian project

RT rayleigh waves

RT seismic detection

RT seismic effects

RT seismic p waves

RT seismic s waves

RT seismic waves

RT seismographs

RT seismology

RT thunderbird project

RT underground mining

RT underwater explosions

RT upshot project

RT vela project

### UNDERGROUND FACILITIES

INIS: 1986-07-09; ETDE: 1982-05-12

(From November 1976 till March 1997

UNDERGROUND SPACE was a valid ETDE descriptor.)

UF facilities (underground)

SF underground space

NT1 hades underground research facility

NT1 mines

NT2 asse salt mine

NT2 coal mines

NT2 konrad ore mine

NT2 uranium mines

NT3 beaverlodge mine

NT3 cluff lake mine

NT3 key lake mine

NT3 mary kathleen mines

NT3 olympic dam mine

NT3 osamu utsumi mine

NT3 rum jungle mine

NT3 stanleigh mine

NT1 tunnels

NT2 mine roadways

NT1 underground nuclear stations

NT1 wipp

RT energy facilities

RT fallout shelters

RT nuclear facilities

RT subsurface structures

RT sudbury neutrino observatory

RT underground disposal

RT underground storage

### underground gasification

INIS: 2000-04-12; ETDE: 1978-05-03

USE in-situ gasification

**underground heat distribution systems**

INIS: 2000-05-04; ETDE: 1976-05-17

USE heat distribution systems

**UNDERGROUND MINING**

1997-06-17

BT1 mining  
 NT1 advance mining  
 NT1 caving mining  
 NT1 longwall mining  
 NT1 retreat mining  
 NT1 room and pillar mining  
 NT1 shortwall mining  
 NT1 slice mining  
 RT caving  
 RT coal mining  
 RT cratering explosions  
 RT excavation  
 RT fracturing  
 RT mine draining  
 RT mine drivage  
 RT mine roadways  
 RT mine shafts  
 RT mines  
 RT mining engineering  
 RT modified in-situ processes  
 RT oil shale mining  
 RT panels  
 RT stowing  
 RT strata movement  
 RT surface mining  
 RT tunneling  
 RT underground explosions

**underground nuclear power plants**

USE underground nuclear stations

**UNDERGROUND NUCLEAR STATIONS**

UF *underground nuclear power plants*  
 \*BT1 nuclear power plants  
 BT1 underground facilities  
 RT power reactors  
 RT reactor sites

**UNDERGROUND POWER TRANSMISSION**

1993-03-18

BT1 power transmission  
 RT power systems

**underground space**

INIS: 2000-04-12; ETDE: 1976-11-17

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE cavities  
 SEE underground  
 SEE underground facilities

**UNDERGROUND STORAGE**

INIS: 1977-06-13; ETDE: 1976-11-17

BT1 storage  
 RT cavities  
 RT energy storage  
 RT geologic deposits  
 RT strategic petroleum reserve  
 RT subsurface structures  
 RT underground  
 RT underground facilities  
 RT us naval petroleum reserves  
 RT waste storage

**UNDERWATER**

BT1 levels  
 RT dumand project  
 RT underwater operations

**UNDERWATER EXPLOSIONS**

UF *swordfish event*  
 BT1 explosions

RT crossroads project  
 RT dominic project  
 RT nuclear excavation  
 RT nuclear explosions  
 RT underground explosions

**UNDERWATER FACILITIES**

INIS: 1999-03-12; ETDE: 1977-03-08

UF *facilities (underwater)*  
 RT diving operations  
 RT dumand project  
 RT manipulators  
 RT offshore operations  
 RT underwater operations

**UNDERWATER OPERATIONS**

INIS: 1992-10-20; ETDE: 1977-03-08

NT1 diving operations  
 RT manipulators  
 RT offshore operations  
 RT underwater  
 RT underwater facilities

**underwater vehicles**

INIS: 2000-04-12; ETDE: 1977-01-28

USE submarines

**UNDP**

INIS: 2005-12-19; ETDE: 2006-01-25

UF *united nations development program*  
 BT1 international organizations  
 RT united nations

**undulators**

INIS: 1987-08-27; ETDE: 1987-10-02

USE wigglers magnets

**unemployment**

INIS: 1993-01-27; ETDE: 1977-08-09

USE employment

**UNEP**

INIS: 1999-08-16; ETDE: 2002-05-11

*United Nations Environmental Programme.*

BT1 international organizations  
 RT united nations

**UNESCO**

INIS: 1975-11-07; ETDE: 1975-12-16

*United Nations Educational, Scientific and Cultural Organization.*

BT1 international organizations  
 RT united nations

**UNFINISHED OILS**

INIS: 2000-04-12; ETDE: 1979-12-10

*All petroleum requiring further refinery processing.*

BT1 petroleum products

**UNGLAZED SOLAR COLLECTORS**

INIS: 2000-04-12; ETDE: 1979-02-27

\*BT1 solar collectors

**UNH**

ETDE: 1978-03-08

UF *uranyl nitrate hexahydrate*

BT1 hydrates  
 \*BT1 uranyl nitrates

**unhexquadum**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 164

**UNICELLULAR ALGAE**

\*BT1 algae  
 BT1 microorganisms  
 NT1 chlamydomonas  
 NT1 chlorella  
 NT1 euglena  
 NT1 scenedesmus  
 RT plankton

**unicracking/hds process**

INIS: 2000-04-12; ETDE: 1982-05-12

*Fixed-bed catalytic process for desulfurization of crudes and resids in the presence of hydrogen.*

USE desulfurization

**UNIDIR**

1999-01-26

UF *united nations institute for disarmament research*

BT1 international organizations  
 RT arms control  
 RT nuclear weapons  
 RT united nations

**UNIDO**

INIS: 1988-06-22; ETDE: 1988-07-15

*United Nations Industrial Development Organization.*

BT1 international organizations  
 RT austria  
 RT united nations

**UNIFIED-FIELD THEORIES**

INIS: 1995-08-10; ETDE: 1983-03-24

*To be used for theories unifying gravitation with other interactions. For quantum field theory involving only electromagnetic, weak and strong interactions see GRAND UNIFIED THEORY.*

(Prior to April 1983 this concept was indexed by EINSTEIN-SCHROEDINGER THEORY.)

BT1 field theories  
 NT1 einstein-schroedinger theory  
 NT1 kaluza-klein theory  
 NT1 supergravity  
 NT1 weinberg-salam gauge model  
 NT1 weyl unified theory  
 RT basic interactions  
 RT grand unified theory  
 RT gravitation  
 RT quantum gravity  
 RT supersymmetry  
 RT twistor theory  
 RT unified gauge models

**UNIFIED GAUGE MODELS**

1995-08-10

\*BT1 particle models  
 \*BT1 quantum field theory  
 NT1 grand unified theory  
 NT2 standard model  
 NT1 weinberg-salam gauge model  
 RT gauge invariance  
 RT inflationary universe  
 RT kaluza-klein theory  
 RT unified-field theories

**UNIFIED MODEL**

\*BT1 nuclear models

**UNILAC**

1975-10-09

\*BT1 heavy ion accelerators  
 \*BT1 linear accelerators

**UNINTERRUPTIBLE POWER SUPPLIES**

2006-08-23

UF *ups*  
 \*BT1 power supplies

**union carbide waste processing system**

INIS: 2000-04-12; ETDE: 1975-11-26

USE purox pyrolysis process

**union of soviet socialist republics**

2000-04-12

*All the constituents of the former USSR are listed below; use one or more as required.*

(Prior to September 1997 USSR was used for this concept.)

SEE armenia  
 SEE azerbaijan  
 SEE belarus  
 SEE estonia  
 SEE kazakhstan  
 SEE kyrgyzstan  
 SEE latvia  
 SEE lithuania  
 SEE moldova  
 SEE republic of georgia  
 SEE russian federation  
 SEE tajikistan  
 SEE turkmenistan  
 SEE ukraine  
 SEE uzbekistan

**UNION OIL PROCESS**

2000-04-12

*A shale retorting process of the direct-heated type, using air injected into a moving bed of coarsely crushed shale to support combustion to supply process heat.*

RT oil shales

**unipolar transistors**

USE field effect transistors

**unisist**

1996-07-15

(Until June 1996 this was a valid descriptor.)

SEE information retrieval  
 SEE information systems

**UNISULF PROCESS**

INIS: 2000-04-12; ETDE: 1983-03-23

*Involves Union Oil proprietary solvent used in their Streford units.*

\*BT1 desulfurization  
 \*BT1 waste processing

**unit tenaga nuklear (malaysia)**

INIS: 1985-10-23; ETDE: 1985-11-13

USE puspati

**UNITARITY**

RT nonunitary representations  
 RT s matrix  
 RT unitary symmetry

**UNITARY POLE APPROXIMATION**

\*BT1 approximations  
 RT k matrix  
 RT many-body problem  
 RT s matrix

**UNITARY SYMMETRY**

BT1 symmetry  
 RT su groups  
 RT u groups  
 RT unitarity

**UNITED ARAB EMIRATES**

INIS: 1992-05-07; ETDE: 1976-08-04

UF abu dhabi  
 UF ajman  
 UF dubai  
 UF fujaira  
 UF ras al khaima  
 UF sharja  
 UF umm al qaiwan  
 BT1 arab countries  
 BT1 asia  
 RT oapec  
 RT opec

**united arab republic**

USE egyptian arab republic

**united arab republic wwr-c reactor**

1993-11-10

USE wwr-s-cairo reactor

**UNITED KINGDOM**

1995-04-03

UF england  
 UF great britain  
 UF northern ireland  
 UF scotland  
 SF gibraltar  
 BT1 developed countries  
 \*BT1 western europe  
 RT bermuda  
 RT hbtx devices  
 RT irish sea  
 RT oecd  
 RT severn river  
 RT ukaea

**UNITED KINGDOM****ORGANIZATIONS**

BT1 national organizations  
 NT1 bnfl  
 NT1 british coal  
 NT1 ncsr  
 NT1 nrpb  
 NT1 uk national physical laboratory  
 NT1 uk nii  
 NT1 ukaea  
 NT2 aere  
 NT2 culham laboratory

**UNITED NATIONS**

1998-06-10

BT1 international organizations  
 RT ctbt  
 RT fao  
 RT iaea  
 RT ilo  
 RT imo  
 RT undp  
 RT unep  
 RT unesco  
 RT unidir  
 RT unido  
 RT unscear  
 RT who  
 RT wmo

**united nations development program**

INIS: 2005-12-19; ETDE: 2006-01-25

USE undp

**united nations institute for disarmament research**

2006-01-31

USE unidir

**united nuclear corporation proof test reactor**

2000-04-12

USE ptf-unc reactor

**UNITED REPUBLIC OF TANZANIA**

(Prior to July 2003, the shorter form TANZANIA was used.)

UF tanzania (united republic of)  
 BT1 africa  
 BT1 developing countries

**united states of america**

USE usa

**united states uranium registry**

INIS: 1994-02-28; ETDE: 1981-07-06

USE usur

**UNITHIOL**

\*BT1 dithiols  
 \*BT1 sulfonic acids  
 RT dimercaprol

**UNITON**

\*BT1 natural units  
 RT gravitational fields  
 RT gravitons

**UNITS**

NT1 degree days  
 NT1 natural units  
 NT2 uniton  
 NT1 radiation dose units  
 NT1 reactivity units  
 NT2 dollars  
 NT2 inhours  
 NT1 si units

**UNIVAC COMPUTERS**

BT1 computers

**universal blackbody radiation**

USE blackbody radiation

**UNIVERSE**

UF cosmos  
 UF metagalaxy  
 RT cosmological models  
 RT cosmology  
 RT galactic evolution  
 RT hubble effect  
 RT intergalactic space  
 RT nonluminous matter  
 RT relict radiation

**universite catholique louvain cyclotron**

INIS: 1993-11-10; ETDE: 2002-05-11

USE cyclone cyclotron

**universities**

INIS: 1983-06-30; ETDE: 1983-07-20

USE educational facilities

**university minas gerais triga reactor**

1993-11-10

USE triga-brazil reactor

**university of alberta slowpoke reactor**

INIS: 1993-11-03; ETDE: 1980-01-24

USE slowpoke-alberta reactor

**university of california, berkeley triga reactor**

INIS: 1993-11-10; ETDE: 2002-05-11

USE ucbr reactor

**university of california / los angeles**

1993-11-10

USE ucla

**university of california berkeley reactor**

2000-04-12

USE ucbr reactor

**university of california irvine reactor**

1993-11-10

USE triga-1-california reactor

**university of california lawrence radiation laboratory**

1993-11-10

USE lawrence berkeley laboratory

**university of florida reactor**

2000-04-12

USE ufr reactor

**university of illinois lopra reactor**

2000-04-12

USE lopra reactor

**university of illinois triga-mk-2 reactor**

INIS: 1993-11-10; ETDE: 2002-05-11

USE triga-2-illinois reactor

**university of illinois triga-mk-ii reactor**

2000-04-12

USE triga-2-illinois reactor

**university of kansas nuclear reactor**

2000-04-12

USE uknr reactor

**university of maryland reactor**

2000-04-12

USE umne-1 reactor

**university of missouri/columbia research reactor**

1993-11-10

USE murr reactor

**university of missouri/rolla research reactor**

1993-11-10

USE umrr reactor

**university of montreal slowpoke reactor**

INIS: 1993-11-10; ETDE: 1980-01-24

USE slowpoke-montreal reactor

**university of nevada l-77 reactor**

2000-04-12

USE nevada university reactor

**university of teheran research reactor**

1993-11-10

USE utrr reactor

**university of texas triga reactor**

1993-11-10

USE triga-texas reactor

**university of toronto slowpoke reactor**

INIS: 1993-11-10; ETDE: 1980-01-24

USE slowpoke-toronto reactor

**university of virginia reactor**

2000-04-12

USE uvar reactor

**university of washington reactor**

2000-04-12

USE uwtr reactor

**university of wisconsin nuclear reactor**

1993-11-10

USE uwnr reactor

**university of wisconsin tokamak**

2000-04-12

USE uwmak devices

**university training reactor queen mary**

1993-11-10

USE queen mary college utr-b reactor

**UNLEADED GASOLINE**

INIS: 1992-07-21; ETDE: 1976-11-01

UF lead-free gasoline

\*BT1 gasoline

RT gasoline service stations

**UNLOADING**

INIS: 1997-06-05; ETDE: 1978-06-14

(Until June 1997 this concept was indexed to MATERIALS HANDLING.)

BT1 materials handling

RT loading

**unloading (fission reactor)**

INIS: 1982-11-29; ETDE: 2002-05-11

USE reactor fueling

**unloading (reactor)**

2000-04-12

USE reactor fueling

**unnilennium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE meitnerium

**unnilhexium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE seaborgium

**unniloctium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE hassium

**unnilpentium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE dubnium

**unnilquadium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE rutherfordium

**unnilseptium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE bohrium

**unobserved matter**

INIS: 1985-01-17; ETDE: 2002-05-11

In outer space.

USE nonluminous matter

**unpinch devices**

USE linear hard core pinch devices

**unquadpentium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 145

**UNSCLEAR**

INIS: 1975-10-09; ETDE: 1975-12-16

United Nations Scientific Committee on Effects of Atomic Radiation.

UF un scientific committee on effects of atomic radiation

BT1 international organizations

RT dose limits

RT radiation hazards

RT united nations

**UNSEALED SOURCES**

BT1 radiation sources

RT internal irradiation

RT radionuclide kinetics

**unseen matter**

INIS: 1985-01-17; ETDE: 2002-05-11

In outer space.

USE nonluminous matter

**unsepttrium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 173

**unsolicited proposals**

INIS: 2000-04-12; ETDE: 1983-05-21

USE proposals

**UNSTEADY FLOW**

BT1 fluid flow

**UNTERWESER REACTOR**

UF kku reactor

\*BT1 pwr type reactors

**untriquadium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 134

**ununbium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 112

**ununennium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 119

**ununhexium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 116

**ununnilium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE darmstadtium

**ununoctium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 118

**ununpentium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 115

**ununquadium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 114

**ununseptium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 117

**ununtrium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 113

**unununium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE roentgenium

**upper volta**

(Prior to February 2005 this was a valid descriptor.)

USE burkina faso

**UPPSALA SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

RT celsius storage ring

**ups**

2006-08-23

USE uninterruptible power supplies

**UPSHOT PROJECT**

UF project upshot

RT nuclear explosions

RT underground explosions

**upsilon-10000 resonances**

INIS: 1987-12-21; ETDE: 1979-09-06

(Prior to December 1987 this was a valid descriptor.)

USE upsilon-10023 mesons

**UPSILON-10023 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by UPSILON-10000

RESONANCES.)

UF upsilon-10000 resonances

\*BT1 bottomonium

\*BT1 vector mesons



**upsilon-10350 resonances**

*INIS: 1987-12-21; ETDE: 1983-04-28*  
(Prior to December 1987 this was a valid descriptor.)  
USE **upsilon-10355 mesons**

**UPSILON-10355 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-02*  
(Prior to December 1987 this concept was indexed by UPSILON-10350 RESONANCES.)  
*UF* *upsilon-10350 resonances*  
\*BT1 **bottomonium**  
\*BT1 **vector mesons**

**upsilon-10500 resonances**

*INIS: 1987-12-21; ETDE: 1978-12-20*  
(Prior to December 1987 this was a valid descriptor.)  
USE **upsilon-10580 mesons**

**upsilon-10575 mesons**

*INIS: 1995-08-07; ETDE: 1988-02-02*  
(From December 1987 until July 1995 this was a valid term.)  
USE **upsilon-10580 mesons**

**UPSILON-10580 MESONS**

*1995-08-07*  
(Until December 1987 this concept was indexed by UPSILON-10500 RESONANCES; from then until July 1995 it was indexed by UPSILON-10575 MESONS.)  
*UF* *upsilon-10500 resonances*  
*UF* *upsilon-10575 mesons*  
\*BT1 **bottomonium**  
\*BT1 **vector mesons**

**UPSILON-10860 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-02*  
\*BT1 **bottomonium**  
\*BT1 **vector mesons**

**UPSILON-11020 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-02*  
\*BT1 **bottomonium**  
\*BT1 **vector mesons**

**UPSILON-9460 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
(Prior to December 1987 this concept was indexed by UPSILON-9500 RESONANCES.)  
*UF* *upsilon-9500 resonances*  
\*BT1 **bottomonium**  
\*BT1 **vector mesons**

**upsilon-9500 resonances**

*INIS: 1987-12-21; ETDE: 1978-07-05*  
(Prior to December 1987 this was a valid descriptor.)  
USE **upsilon-9460 mesons**

**upsilon resonances**

*INIS: 1988-03-08; ETDE: 1978-02-14*  
(Prior to December 1987 this was a valid descriptor.)  
SEE **bottomonium**  
SEE **vector mesons**

**UPTAKE**

*UF* *incorporation (biological)*  
**NT1** **foliar uptake**  
**NT1** **intestinal absorption**  
**NT1** **root absorption**  
**NT1** **skin absorption**  
*RT* **biological availability**  
*RT* **intake**  
*RT* **phosphoenolpyruvate**  
*RT* **radionuclide kinetics**  
*RT* **rectal administration**  
*RT* **retention**

**UPWELLING**

*INIS: 1993-02-18; ETDE: 1977-11-09*  
*The process by which water rises from a deeper to a shallower depth.*  
*RT* **downwelling**  
*RT* **oceanic circulation**  
*RT* **water currents**

**URACH GEOTHERMAL FIELD**

*INIS: 2000-04-12; ETDE: 1984-09-05*  
*Located in the Schwabian Alb, Federal Republic of Germany.*  
**BT1** **geothermal fields**  
*RT* **federal republic of germany**

**uracil-6-carboxylic acid**

USE **orotic acid**

**URACILS**

\*BT1 **hydroxy compounds**  
\*BT1 **pyrimidines**  
**NT1** **bromouracils**  
**NT2** **budr**  
**NT1** **chlorouracils**  
**NT1** **deoxyuridine**  
**NT1** **fluorouracils**  
**NT2** **fudr**  
**NT1** **iodouracils**  
**NT2** **iododeoxyuridine**  
**NT1** **orotic acid**  
**NT1** **thiouracil**  
**NT1** **thymine**  
**NT1** **uridine**  
*RT* **uridine diphosphoglucose**  
*RT* **uridylic acid**

**urad jadroveho dozoru slovenskeje republiky**

*2002-12-17*  
USE **ujd**

**uragan-2 stellarator**

*INIS: 1984-06-21; ETDE: 2002-05-24*  
USE **uragan stellarator**

**uragan-3 stellarator**

*INIS: 1984-06-21; ETDE: 2002-05-24*  
USE **torsatron stellarators**

**URAGAN STELLARATOR**

*UF* *uragan-2 stellarator*  
\*BT1 **stellarators**

**ural computers**

*1996-07-15*  
(Until June 1996 this was a valid descriptor.)  
USE **computers**

**ural mountains**

*INIS: 2000-04-12; ETDE: 1976-05-17*  
USE **urals**

**URALS**

*UF* *ural mountains*  
**BT1** **mountains**  
*RT* **kazakhstan**  
*RT* **russian federation**

**urals atomic power station**

SEE **belyarsk-1 reactor**  
SEE **belyarsk-2 reactor**  
SEE **belyarsk-3 reactor**

**URANATES**

*1996-07-23*  
\*BT1 **uranium compounds**  
**NT1** **ammonium uranates**  
**NT2** **adu**  
**NT1** **bismuth uranates**  
**NT1** **cesium uranates**  
**NT1** **lithium uranates**  
**NT1** **potassium uranates**

**NT1** **rubidium uranates**  
**NT1** **sodium uranates**  
**NT1** **strontium uranates**  
**NT1** **thallium uranates**

**URANINITES**

\*BT1 **oxide minerals**  
\*BT1 **uranium minerals**  
**NT1** **broeggerite**  
**NT1** **pitchblende**  
*RT* **black sands**  
*RT* **thucholite**

**URANIUM**

\*BT1 **actinides**  
**NT1** **depleted uranium**  
**NT1** **enriched uranium**  
**NT2** **highly enriched uranium**  
**NT2** **moderately enriched uranium**  
**NT2** **slightly enriched uranium**  
**NT1** **natural uranium**  
**NT1** **uranium-alpha**  
**NT1** **uranium-beta**  
**NT1** **uranium-gamma**  
*RT* **feed materials plants**  
*RT* **natural radioactivity**  
*RT* **nuclear fuels**  
*RT* **uranium ores**  
*RT* **uranium recycle**  
*RT* **uranium requirements**

**URANIUM 217**

*2007-04-23*  
\*BT1 **actinide nuclei**  
\*BT1 **alpha decay radioisotopes**  
\*BT1 **even-odd nuclei**  
\*BT1 **milliseconds living radioisotopes**  
\*BT1 **uranium isotopes**

**URANIUM 218**

*1992-07-06*  
\*BT1 **actinide nuclei**  
\*BT1 **alpha decay radioisotopes**  
\*BT1 **even-even nuclei**  
\*BT1 **milliseconds living radioisotopes**  
\*BT1 **uranium isotopes**

**URANIUM 219**

*1993-06-25*  
\*BT1 **actinide nuclei**  
\*BT1 **alpha decay radioisotopes**  
\*BT1 **even-odd nuclei**  
\*BT1 **microseconds living radioisotopes**  
\*BT1 **uranium isotopes**

**URANIUM 220**

*2007-04-23*  
\*BT1 **actinide nuclei**  
\*BT1 **alpha decay radioisotopes**  
\*BT1 **even-even nuclei**  
\*BT1 **uranium isotopes**

**URANIUM 221**

*2007-04-23*  
\*BT1 **actinide nuclei**  
\*BT1 **alpha decay radioisotopes**  
\*BT1 **even-odd nuclei**  
\*BT1 **uranium isotopes**

**URANIUM 222**

*INIS: 1986-06-09; ETDE: 1988-12-05*  
\*BT1 **actinide nuclei**  
\*BT1 **alpha decay radioisotopes**  
\*BT1 **even-even nuclei**  
\*BT1 **microseconds living radioisotopes**  
\*BT1 **uranium isotopes**

**URANIUM 223**

*1991-07-02*  
\*BT1 **actinide nuclei**  
\*BT1 **alpha decay radioisotopes**  
\*BT1 **even-odd nuclei**

- \*BT1 microseconds living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 224***1991-07-02*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 225***INIS: 1989-07-19; ETDE: 1977-09-19*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 226**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 227**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 228***UF uranium i*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 229**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 230**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 uranium isotopes

**URANIUM 231**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 uranium isotopes

**URANIUM 232**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 neon 24 decay radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 232 TARGET***ETDE: 1976-07-09*

BT1 targets

**URANIUM 233**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei

- \*BT1 neon 24 decay radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 233 TARGET***ETDE: 1976-07-09*

BT1 targets

**URANIUM 234***UF uranium ii*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 magnesium 28 decay radioisotopes
- \*BT1 neon 24 decay radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 234 TARGET***ETDE: 1976-07-12*

BT1 targets

**URANIUM 235**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 235 REACTIONS***INIS: 1977-06-14; ETDE: 1977-10-20*

\*BT1 heavy ion reactions

**URANIUM 235 TARGET***ETDE: 1976-07-09*

BT1 targets

**URANIUM 236**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 236 TARGET***ETDE: 1976-07-09*

BT1 targets

**URANIUM 237**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 uranium isotopes

**URANIUM 237 TARGET***ETDE: 1976-07-09*

BT1 targets

**URANIUM 238**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 238 BEAMS***INIS: 1977-09-15; ETDE: 1977-11-10*

\*BT1 radioactive ion beams

**URANIUM 238 REACTIONS***INIS: 1977-03-01; ETDE: 1977-10-20*

\*BT1 heavy ion reactions

**URANIUM 238 TARGET***ETDE: 1976-07-09**UF natural uranium target*  
BT1 targets**URANIUM 239**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 239 TARGET***ETDE: 1976-07-09*

BT1 targets

**URANIUM 240**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 uranium isotopes

**URANIUM 240 TARGET***INIS: 1978-07-03; ETDE: 1978-03-08*

BT1 targets

**URANIUM 241***2004-07-16*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 242***INIS: 1986-06-09; ETDE: 1979-07-24*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 243 TARGET***INIS: 1992-09-23; ETDE: 1981-08-21*

BT1 targets

**URANIUM ADDITIONS***Alloys containing not more than 1% U are listed here.*

RT uranium alloys

**URANIUM ALLOYS***Alloys containing more than 1% U.*

- \*BT1 actinide alloys
- NT1 uranium base alloys
- NT2 alloy-u90nb7zr3
- RT uranium additions

**URANIUM-ALPHA**

\*BT1 uranium

**URANIUM ARSENIDES**

- \*BT1 arsenides
- \*BT1 uranium compounds

**URANIUM BASE ALLOYS**

- \*BT1 uranium alloys
- NT1 alloy-u90nb7zr3

**URANIUM-BETA**

\*BT1 uranium

**URANIUM BLACK**

- \*BT1 oxide minerals
- \*BT1 uranium minerals
- RT uranium oxides

**URANIUM BORIDES**

- \*BT1 borides
- \*BT1 uranium compounds

**URANIUM BOROHYDRIDES**

1999-03-08

- \*BT1 borohydrides
- \*BT1 uranium compounds

**URANIUM BROMIDES**

- \*BT1 bromides
- \*BT1 uranium compounds

**URANIUM CARBIDES**

- \*BT1 carbides
- \*BT1 uranium compounds
- RT mixed carbide fuels

**URANIUM CARBONATES**

1996-11-13

- \*BT1 carbonates
- \*BT1 uranium compounds
- RT carbonate minerals
- RT diderichite
- RT uranium minerals

**URANIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 uranium compounds

**URANIUM COMPLEXES**

- \*BT1 actinide complexes
- NT1 uranyl complexes

**URANIUM COMPOUNDS**

1996-11-13

- BT1 actinide compounds
- NT1 uranates
  - NT2 ammonium uranates
  - NT3 adu
  - NT2 bismuth uranates
  - NT2 cesium uranates
  - NT2 lithium uranates
  - NT2 potassium uranates
  - NT2 rubidium uranates
  - NT2 sodium uranates
  - NT2 strontium uranates
  - NT2 thallium uranates
- NT1 uranium arsenides
- NT1 uranium borides
- NT1 uranium borohydrides
- NT1 uranium bromides
- NT1 uranium carbides
- NT1 uranium carbonates
- NT1 uranium chlorides
- NT1 uranium fluorides
  - NT2 uranium hexafluoride
  - NT2 uranium pentafluoride
  - NT2 uranium tetrafluoride
- NT1 uranium hydrides
- NT1 uranium hydroxides
- NT1 uranium iodides
- NT1 uranium nitrates
- NT1 uranium nitrides
- NT1 uranium oxides
  - NT2 uranium dioxide
  - NT2 uranium oxides u3o8
  - NT2 uranium trioxide
- NT1 uranium perchlorates
- NT1 uranium peroxide
- NT1 uranium phosphates
- NT1 uranium phosphides
- NT1 uranium selenides
- NT1 uranium silicates
- NT1 uranium silicides
- NT1 uranium sulfates
- NT1 uranium sulfides
- NT1 uranium tellurides
- NT1 uranium tungstates
- NT1 uranium vanadates
- NT1 uranyl compounds
  - NT2 auc
  - NT2 uranyl carbonates
  - NT2 uranyl chlorides
  - NT2 uranyl fluorides

- NT2 uranyl nitrates
- NT3 unh
- NT2 uranyl perchlorates
- NT2 uranyl phosphates
- NT2 uranyl silicates
- NT2 uranyl sulfates
- NT2 uranyl tungstates

**URANIUM CONCENTRATES**

1996-07-08

- BT1 ore concentrates
- \*BT1 uranium ores
- RT feed materials plants
- RT ore processing

**URANIUM DEPOSITS**

1996-01-25

- BT1 geologic deposits
- \*BT1 mineral resources
- NT1 blizzard deposit
- NT1 erzgebirge deposit
- NT1 jabiluka deposit
- NT1 koongarra deposit
- NT1 nabarlek deposit
- NT1 ranger deposit
- NT1 ranstad deposit
- NT1 roxby downs deposit
- NT1 south alligator deposit
- NT1 yeelirrie deposit
- RT chattanooga formation
- RT geophysical surveys
- RT green river formation
- RT natural analogue
- RT oklo phenomenon
- RT radiometric surveys
- RT uranium ores
- RT wasatch formation

**URANIUM DIOXIDE**

- \*BT1 uranium oxides

**uranium enrichment**

INIS: 1975-08-20; ETDE: 2002-05-24

- USE isotope separation

**uranium enrichment plants**

INIS: 1976-04-03; ETDE: 2002-05-24

- USE isotope separation plants

**URANIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 uranium compounds
- NT1 uranium hexafluoride
- NT1 uranium pentafluoride
- NT1 uranium tetrafluoride

**URANIUM-GAMMA**

- \*BT1 uranium

**URANIUM HEXAFLUORIDE**

- \*BT1 uranium fluorides
- RT sequoyah uf6 production plant

**URANIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 uranium compounds

**URANIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 uranium compounds

**uranium i**

- USE uranium 228

**uranium ii**

- USE uranium 234

**URANIUM INSTITUTE**

INIS: 1975-12-09; ETDE: 1976-08-25

- An international trade association.
- BT1 international organizations

**URANIUM IODIDES**

- \*BT1 iodides
- \*BT1 uranium compounds

**URANIUM IONS**

- \*BT1 ions

**URANIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 uranium 217
- NT1 uranium 218
- NT1 uranium 219
- NT1 uranium 220
- NT1 uranium 221
- NT1 uranium 222
- NT1 uranium 223
- NT1 uranium 224
- NT1 uranium 225
- NT1 uranium 226
- NT1 uranium 227
- NT1 uranium 228
- NT1 uranium 229
- NT1 uranium 230
- NT1 uranium 231
- NT1 uranium 232
- NT1 uranium 233
- NT1 uranium 234
- NT1 uranium 235
- NT1 uranium 236
- NT1 uranium 237
- NT1 uranium 238
- NT1 uranium 239
- NT1 uranium 240
- NT1 uranium 241
- NT1 uranium 242

**uranium mills**

INIS: 1993-09-16; ETDE: 1978-07-05

- USE feed materials plants

**URANIUM MINERALS**

1996-11-13

- UF andersonite
- UF bayleyite
- UF boltwoodite
- UF carburan
- UF cuprosklodowskite
- UF curite
- UF cyrtolite
- UF davidite
- UF demesmaekerite
- UF dumontite
- UF euxenite
- UF francevillite
- UF gummite
- UF hatchettolite
- UF iriginite
- UF johannite
- UF lermontovite
- UF liebigite
- UF masuyite
- UF moluranite
- UF parsonsite
- UF phosphuranylite
- UF rutherfordite
- UF schroeckerite
- UF sharpite
- UF steenstrupine
- UF strelkinite
- UF umohoite
- UF uranocircite
- UF uranopilite
- UF uranothorianite
- UF uranotile
- UF zeunerite
- UF zippeite
- \*BT1 radioactive minerals
- NT1 autunite
- NT1 bassetite

**NT1** becquerelite  
**NT1** billietite  
**NT1** brannerite  
**NT1** carnotite  
**NT1** clarkeite  
**NT1** coffinite  
**NT1** compreignacite  
**NT1** dewindtite  
**NT1** diderichite  
**NT1** djalmaite  
**NT1** ekanite  
**NT1** ellsworthite  
**NT1** ferghanite  
**NT1** fourmarierite  
**NT1** gastunite  
**NT1** guilleminite  
**NT1** hallimondite  
**NT1** heinrichite  
**NT1** ianthinite  
**NT1** kahlerite  
**NT1** kirchheimerite  
**NT1** lodochnikite  
**NT1** mackintoshite  
**NT1** moctezumite  
**NT1** montroseite  
**NT1** naegite  
**NT1** natroautunite  
**NT1** ningyoite  
**NT1** novacekite  
**NT1** para-schoepite  
**NT1** ranquillite  
**NT1** rauvite  
**NT1** sabugalite  
**NT1** saleeite  
**NT1** schoepite  
**NT1** sengierite  
**NT1** sklodowskite  
**NT1** soddyite  
**NT1** thorianite  
**NT1** thucholite  
**NT1** torbernite  
**NT1** tyuyamunite  
**NT1** uraninites  
**NT2** broeggerite  
**NT2** pitchblende  
**NT1** uranium black  
**NT1** uranophane  
**NT1** uranothorite  
**NT1** vesuvianite  
**RT** uranium carbonates  
**RT** uranium oxides  
**RT** uranium phosphates  
**RT** uranium silicates  
**RT** uranium sulfates

**URANIUM MINES**

1996-01-24

**\*BT1** mines  
**NT1** beaverlodge mine  
**NT1** cluff lake mine  
**NT1** key lake mine  
**NT1** mary kathleen mines  
**NT1** olympic dam mine  
**NT1** osamu utsumi mine  
**NT1** rum jungle mine  
**NT1** stanleigh mine  
**RT** natural analogue

**URANIUM-MOLYBDENUM FUELS**

2004-01-14

**\*BT1** alloy nuclear fuels

**URANIUM NITRATES**

**\*BT1** nitrates  
**\*BT1** uranium compounds

**URANIUM NITRIDES**

**\*BT1** nitrides  
**\*BT1** uranium compounds  
**RT** mixed nitride fuels

**uranium ore reserves**

ETDE: 2002-05-24

USE uranium reserves

**URANIUM ORES**

1996-07-23

**BT1** ores  
**NT1** caldasite  
**NT1** uranium concentrates  
**RT** blizzard deposit  
**RT** chattanooga formation  
**RT** erzgebirge deposit  
**RT** green river formation  
**RT** jabiluka deposit  
**RT** koongarra deposit  
**RT** mining  
**RT** nabarlek deposit  
**RT** natural nuclear reactors  
**RT** oklo phenomenon  
**RT** ranger deposit  
**RT** ranstad deposit  
**RT** roxby downs deposit  
**RT** solution mining  
**RT** south alligator deposit  
**RT** thiobacillus ferroxidans  
**RT** uranium  
**RT** uranium deposits  
**RT** uranium reserves  
**RT** yeelirrie deposit

**uranium oxide fuel plant**

USE mixed oxide fuel fabrication plants

**URANIUM OXIDES**

1996-11-13

**\*BT1** oxides  
**\*BT1** uranium compounds  
**NT1** uranium dioxide  
**NT1** uranium oxides u3o8  
**NT1** uranium trioxide  
**RT** becquerelite  
**RT** billietite  
**RT** brannerite  
**RT** clarkeite  
**RT** compreignacite  
**RT** ellsworthite  
**RT** ferghanite  
**RT** fourmarierite  
**RT** guilleminite  
**RT** hallimondite  
**RT** heinrichite  
**RT** ianthinite  
**RT** kahlerite  
**RT** kirchheimerite  
**RT** lodochnikite  
**RT** moctezumite  
**RT** naegite  
**RT** novacekite  
**RT** oxide minerals  
**RT** para-schoepite  
**RT** rauvite  
**RT** schoepite  
**RT** sengierite  
**RT** thorianite  
**RT** tyuyamunite  
**RT** uranium black  
**RT** uranium minerals

**URANIUM OXIDES U3O8**

1985-11-18

(Prior to December 1985 the form U3O8 was used.)

UF u3o8

UF yellow cake

**\*BT1** uranium oxides**URANIUM PENTAFLUORIDE**

INIS: 1977-04-07; ETDE: 1977-06-03

**\*BT1** uranium fluorides**URANIUM PERCHLORATES**

1975-09-01

**\*BT1** perchlorates  
**\*BT1** uranium compounds

**URANIUM PEROXIDE**

INIS: 1977-11-21; ETDE: 1980-10-28

(Prior to July 1985 URANIUM PEROXIDES was a valid ETDE descriptor.)

**\*BT1** peroxides  
**\*BT1** uranium compounds

**URANIUM PHOSPHATES**

1996-11-13

**\*BT1** phosphates  
**\*BT1** uranium compounds  
**RT** dewindtite  
**RT** natroautunite  
**RT** ningyoite  
**RT** phosphate minerals  
**RT** sabugalite  
**RT** saleeite  
**RT** torbernite  
**RT** uranium minerals

**URANIUM PHOSPHIDES**

**\*BT1** phosphides  
**\*BT1** uranium compounds

**URANIUM RECYCLE**

INIS: 1987-03-24; ETDE: 1987-11-24

**BT1** fuel cycle  
**RT** fuel cycle centers  
**RT** uranium

**URANIUM REQUIREMENTS**

INIS: 1982-12-03; ETDE: 1997-01-24

**BT1** demand  
**RT** uranium

**URANIUM RESERVES**

1986-05-26

**UF** uranium ore reserves  
**\*BT1** reserves  
**RT** mineral resources  
**RT** uranium ores

**URANIUM SELENIDES**

1976-02-05

**\*BT1** selenides  
**\*BT1** uranium compounds

**URANIUM SILICATES**

1996-11-13

**\*BT1** silicates  
**\*BT1** uranium compounds  
**RT** ekanite  
**RT** mackintoshite  
**RT** ranquillite  
**RT** silicate minerals  
**RT** sklodowskite  
**RT** soddyite  
**RT** uranium minerals  
**RT** uranophane  
**RT** uranothorite

**URANIUM SILICIDES**

**\*BT1** silicides  
**\*BT1** uranium compounds

**URANIUM SULFATES**

1996-11-13

**\*BT1** sulfates  
**\*BT1** uranium compounds  
**RT** sulfate minerals  
**RT** uranium minerals

**URANIUM SULFIDES**

**\*BT1** sulfides  
**\*BT1** uranium compounds

**URANIUM TELLURIDES**

1976-02-05

- \*BT1 tellurides
- \*BT1 uranium compounds

**URANIUM TETRAFLUORIDE**

- \*BT1 uranium fluorides

**URANIUM TRIOXIDE**

- \*BT1 uranium oxides

**URANIUM TUNGSTATES**

1997-01-28

(From October 1996 to February 2008

URANIUM COMPOUNDS +

TUNGSTATES was used for this concept.)

- \*BT1 tungstates
- \*BT1 uranium compounds

**URANIUM VANADATES**

- \*BT1 uranium compounds
- \*BT1 vanadates
- RT carnotite

**uranium x 1**

USE thorium 234

**uranium x 2**

USE thorium 231

**uranocircite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE phosphate minerals
- USE uranium minerals

**URANOPHANE**

1976-02-05

- \*BT1 silicate minerals
- \*BT1 uranium minerals
- RT calcium silicates
- RT uranium silicates

**uranopilite**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE uranium minerals

**uranothorianite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE oxide minerals
- USE thorium minerals
- USE uranium minerals

**URANOTHORITE**

- \*BT1 silicate minerals
- \*BT1 thorium minerals
- \*BT1 uranium minerals
- RT thorium silicates
- RT uranium silicates

**uranotile**

2000-03-29

(Until June 1996 this was a valid descriptor.)

- USE silicate minerals
- USE uranium minerals

**URANUS PLANET**

- BT1 planets

**URANYL CARBONATES**

INIS: 1990-07-24; ETDE: 1990-08-06

- \*BT1 carbonates
- \*BT1 uranyl compounds

**URANYL CHLORIDES**

INIS: 1982-06-09; ETDE: 1977-06-21

- \*BT1 chlorides
- \*BT1 uranyl compounds

**URANYL COMPLEXES**

- \*BT1 uranium complexes
- RT uranyl compounds

**URANYL COMPOUNDS**

1996-11-13

- \*BT1 uranium compounds
- NT1 auc
- NT1 uranyl carbonates
- NT1 uranyl chlorides
- NT1 uranyl fluorides
- NT1 uranyl nitrates
- NT2 unh
- NT1 uranyl perchlorates
- NT1 uranyl phosphates
- NT1 uranyl silicates
- NT1 uranyl sulfates
- NT1 uranyl tungstates
- RT uranyl complexes

**URANYL FLUORIDES**

1982-06-09

- \*BT1 fluorides
- \*BT1 uranyl compounds

**uranyl nitrate hexahydrate**

ETDE: 1978-03-08

USE unh

**URANYL NITRATES**

- \*BT1 nitrates
- \*BT1 uranyl compounds
- NT1 unh

**URANYL PERCHLORATES**

1985-09-06

- \*BT1 perchlorates
- \*BT1 uranyl compounds

**URANYL PHOSPHATES**

INIS: 1978-07-31; ETDE: 1978-09-11

- \*BT1 phosphates
- \*BT1 uranyl compounds

**URANYL SILICATES**

INIS: 1982-02-09; ETDE: 1981-07-06

- \*BT1 silicates
- \*BT1 uranyl compounds

**URANYL SULFATES**

- \*BT1 sulfates
- \*BT1 uranyl compounds

**URANYL TUNGSTATES**

INIS: 1997-01-28; ETDE: 1988-12-02

(From October 1996 to February 2008 URANYL COMPOUNDS + TUNGSTATES was used for this concept.)

- \*BT1 tungstates
- \*BT1 uranyl compounds

**URBAN AREAS**

(From September 1977 till March 1997 PLANNED COMMUNITIES was a valid ETDE descriptor.)

- UF cities
- UF metropolitan areas
- UF suburbs
- SF planned communities
- NT1 atlanta
- NT1 chattanooga
- NT1 chicago
- NT1 cleveland
- NT1 los alamos
- NT1 los angeles
- NT1 new york city
- NT1 oak ridge
- NT1 pittsburgh
- NT1 richland
- RT aesthetics
- RT boom towns
- RT residential sector

RT urban populations

**URBAN POPULATIONS**

- \*BT1 human populations
- RT sociology
- RT urban areas

**urbaryons**

2000-04-12

(This was a valid descriptor for ETDE from May 1975 to March 2006, and for INIS from April 2000 to March 2006.)

USE quarks

**UREA**

UF carbamide

- \*BT1 amides
- \*BT1 carbonic acid derivatives
- RT allantoin
- RT citrulline
- RT hydantoins
- RT nitrosoureas
- RT urea-formaldehyde foams
- RT uremia

**UREA-FORMALDEHYDE FOAMS**

INIS: 2000-04-12; ETDE: 1980-02-11

- \*BT1 foams
- RT formaldehyde
- RT polymers
- RT thermal insulation
- RT urea

**UREASE**

Code number 3.5.1.5.

- \*BT1 amidases

**ureidoaminovaleric acid**

USE citrulline

**UREMIA**

- BT1 symptoms
- \*BT1 urogenital system diseases
- RT blood
- RT kidneys
- RT urea

**URETERS**

- \*BT1 urinary tract

**URETHANE**

- \*BT1 carbamates
- RT polyurethanes

**urethra**

USE urinary tract

**URIC ACID**

UF 8-hydroxyxanthine

- \*BT1 xanthines
- RT organic acids

**uricase**

2000-03-29

(Until October 1996 this was a valid descriptor.)

USE nitro-group dehydrogenases

**URIDINE**

- \*BT1 nucleosides
- \*BT1 uracils
- RT ump
- RT uridine diphosphoglucose

**URIDINE DIPHOSPHOGLUCOSE**

ETDE: 2005-02-01

(Prior to January 2005 UDPG was used for this concept.)

UF udpg (uridine diphosphoglucose)

- \*BT1 glycosides
- \*BT1 nucleotides
- \*BT1 organic phosphorus compounds
- RT glucose

RT uracils  
RT uridine

**uridine monophosphate**

1982-02-09

USE ump

**uridine triphosphate**

ETDE: 1975-10-01

USE utp

**URIDYLIC ACID**

\*BT1 nucleotides  
RT uracils

**urinalysis**

USE qualitative chemical analysis  
USE urine

**URINARY KETOSTEROIDS**

UF ketosteroids (urinary)  
RT androgens  
RT steroids  
RT urine

**URINARY TRACT**

UF urethra  
\*BT1 organs  
NT1 bladder  
NT1 ureters  
RT calculi  
RT excretion  
RT kidneys  
RT urine  
RT urogenital system diseases

**URINE**

UF deoxyctidimuria  
UF urinalysis  
\*BT1 biological wastes  
\*BT1 body fluids  
RT diuretics  
RT excretion  
RT kidneys  
RT urinary ketosteroids  
RT urinary tract

**urobilinogen**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE heterocyclic acids  
USE pigments  
USE pyrroles

**UROCANIC ACID**

\*BT1 heterocyclic acids  
\*BT1 imidazoles

**urocyon**

INIS: 1993-02-18; ETDE: 1985-03-12

USE foxes

**UROGENITAL SYSTEM DISEASES**

1996-06-28

UF glycosuria  
UF uterine cervix carcinoma  
BT1 diseases  
NT1 gonorrhea  
NT1 menstruation disorders  
NT1 nephritis  
NT1 nephrosclerosis  
NT1 reproductive disorders  
NT1 uremia  
RT diuretics  
RT endocrine diseases  
RT female genitals  
RT gynecology  
RT kidneys  
RT male genitals  
RT syphilis  
RT urinary tract

**UROKINASE**

Code number 3.4.99.26.

\*BT1 blood coagulation factors  
\*BT1 fibrinolytic agents  
\*BT1 nonspecific peptidases  
RT fibrinolysis

**URONIC ACIDS**

INIS: 2000-04-12; ETDE: 1979-07-18

Hydrolyzates of hemicellulose; class of compounds similar to sugars, but terminal carbon has been oxidized from an alcohol to a carboxyl group.

\*BT1 monocarboxylic acids

**UROTROPIN**

UF cystamin  
UF hexamethylenetetramine  
\*BT1 amines

**URR REACTOR**

Universities Research Reactor, Risley, United Kingdom.

UF manchester liverpool university research reactor

\*BT1 argonaut type reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**URUGUAY**

BT1 developing countries  
\*BT1 south america

**URUGUAYAN ORGANIZATIONS**

1996-06-20

BT1 national organizations

**US ACDA**

INIS: 2000-04-12; ETDE: 1986-03-04

UF us arms control and disarmament agency

\*BT1 us organizations  
RT arms control

**US AEC**

1995-03-28

Includes all AEC-associated organizations.

UF us atomic energy commission

\*BT1 us organizations  
NT1 ames laboratory  
NT1 anl  
NT1 bettis  
NT1 bnl  
NT1 feed materials production center  
NT1 hapo  
NT1 idaho chemical processing plant  
NT1 kapl  
NT1 lawrence berkeley laboratory  
NT1 lawrence livermore laboratory  
NT1 mound laboratory  
NT1 ornl  
NT1 paducah plant  
NT1 rocky flats plant  
NT1 sandia laboratories  
NT1 savannah river plant  
NT1 sequoyah uf6 production plant  
NT1 y-12 plant  
RT regulatory guides  
RT us doe  
RT us erda  
RT us nrc  
RT usa

**us aec low intensity test reactor**

2000-04-12

USE litr reactor

**us aec low intensity training reactor**

INIS: 1993-11-10; ETDE: 2002-05-24

USE litr reactor

**us aec lptr reactor**

USE lptr reactor

**us aec materials testing reactor-idaho**

1993-11-10

USE mtr reactor

**us aec mrr**

USE mrr reactor

**US AFFIRMATIVE ACTION PROGRAM**

INIS: 2000-04-12; ETDE: 1991-12-18

A program designed to ensure that positive action is undertaken to overcome under representation of women and minority groups in employment and in post-secondary student bodies, as compared with the composition of the area population.

(Prior to December 1991 this concept was indexed by AFFIRMATIVE ACTION in ETDE.)

UF affirmative action  
RT employment  
RT minority groups  
RT us federal assistance programs  
RT women

**us antitrust laws**

INIS: 1994-01-12; ETDE: 1992-02-25

(From February to August 1992 this was a valid ETDE descriptor.)

USE antitrust laws

**us arms control and disarmament agency**

INIS: 2000-04-12; ETDE: 1986-03-04

USE us acda

**us atomic energy commission**

USE us aec

**US BUREAU OF MINES**

INIS: 1977-07-05; ETDE: 1976-11-17

UF bureau of mines (us)

\*BT1 us doi

**US BUREAU OF RECLAMATION**

INIS: 1992-08-13; ETDE: 1991-12-18

(Prior to December 1991 this concept was indexed to BUREAU OF RECLAMATION in ETDE.)

UF bureau of reclamation  
\*BT1 us doi

**US CEQ**

INIS: 2000-04-12; ETDE: 1981-03-17

UF council on environmental quality

\*BT1 us organizations

**US CIA**

INIS: 2000-04-12; ETDE: 1980-08-25

UF central intelligence agency

\*BT1 us organizations

**us clean air act**

INIS: 1994-01-24; ETDE: 1991-11-05

(From Jan 92 to Jan 94 this was a valid descriptor.)

USE clean air acts

**US CLEAN COAL TECHNOLOGY PROGRAM**

INIS: 1992-02-24; ETDE: 1990-02-28

RT coal preparation  
RT desulfurization  
RT pollution control

**us clean water act**

INIS: 1994-01-24; ETDE: 1991-11-05  
(From Mar 77 to Jan 94 this was a valid descriptor.)

USE clean water acts

**US COAST GUARD**

INIS: 1992-05-22; ETDE: 1977-08-09  
\*BT1 us dot

**US CORPS OF ENGINEERS**

INIS: 1992-05-22; ETDE: 1991-12-18  
(Prior to December 1991 this concept was indexed to CORPS OF ENGINEERS in ETDE.)

UF corps of engineers

\*BT1 us dod

**us department of agriculture**

INIS: 2000-04-12; ETDE: 1979-02-23  
USE us doa

**us department of commerce**

INIS: 2000-04-12; ETDE: 1979-02-23  
USE us doc

**us department of defense**

INIS: 1992-05-21; ETDE: 2002-05-24  
USE us dod

**us department of health, education,  
and welfare**

INIS: 2000-04-12; ETDE: 1979-02-23  
USE us hew

**us department of housing and urban  
development**

INIS: 2000-04-12; ETDE: 1980-08-25  
USE us hud

**us department of justice**

INIS: 2000-04-12; ETDE: 1979-02-23  
USE us doj

**us department of labor**

INIS: 2000-04-12; ETDE: 1979-02-23  
USE us dol

**us department of state**

INIS: 2000-04-12; ETDE: 1979-12-17  
USE us dos

**US DEPARTMENT OF TREASURY**

INIS: 1992-04-09; ETDE: 1979-02-23  
\*BT1 us organizations  
NT1 us irs

**US DEPLETION ALLOWANCES**

INIS: 1992-03-26; ETDE: 1992-02-24  
*Deduction allowed to US income tax based on depletion of natural resources such as fossil fuels.*

UF depletion allowances

RT financial incentives

RT resource depletion

RT taxes

**US DOA**

INIS: 1992-06-12; ETDE: 1979-02-23  
UF us department of agriculture  
\*BT1 us organizations  
NT1 us forest service  
NT1 us rea

**US DOC**

INIS: 2000-04-12; ETDE: 1979-02-23  
UF us department of commerce  
\*BT1 us organizations  
NT1 us nbs

**US DOD**

INIS: 1992-05-21; ETDE: 1977-09-20  
UF department of defense  
UF us department of defense  
\*BT1 us organizations  
NT1 us corps of engineers

**US DOE**

INIS: 1997-06-19; ETDE: 1977-08-09  
*US Department of Energy.*  
UF technical information center  
UF us doe program management  
\*BT1 us organizations  
NT1 alaska power administration  
NT1 ames laboratory  
NT1 anl  
NT1 atomics international canoga park plant  
NT1 bartlesville energy technology center  
NT1 battelle pacific northwest laboratories  
NT1 bettis  
NT1 bnl  
NT1 bonneville power administration  
NT1 economic regulatory administration  
NT1 environmental measurements laboratory  
NT1 feed materials production center  
NT1 fermilab  
NT1 hanford engineering development laboratory  
NT1 hanford reservation  
NT1 hapo  
NT1 idaho chemical processing plant  
NT1 ineel  
NT1 inhalation toxicology research institute  
NT1 kansas city plant  
NT1 kapl  
NT1 lanl  
NT1 laramie energy research center  
NT1 laramie energy technology center  
NT1 lawrence berkeley laboratory  
NT1 lawrence livermore national laboratory  
NT2 lawrence livermore laboratory  
NT1 morgantown energy technology center  
NT1 mound laboratory  
NT1 national renewable energy laboratory  
NT1 nevada test site  
NT1 oak ridge reservation  
NT1 orgdp  
NT1 ornl  
NT1 paducah plant  
NT1 pantex plant  
NT1 pinellas plant  
NT1 pittsburgh energy technology center  
NT1 portsmouth centrifuge enrichment plant  
NT1 portsmouth gaseous diffusion plant  
NT1 rocky flats plant  
NT1 sandia national laboratories  
NT2 sandia laboratories  
NT1 savannah river plant  
NT1 sequoyah uf6 production plant  
NT1 southeastern power administration  
NT1 southwestern power administration  
NT1 stanford linear accelerator center  
NT1 us doe field offices  
NT1 us doe inspector general  
NT1 us energy extension service  
NT1 us energy information administration  
NT1 us ferc  
NT1 us msha  
NT1 us niper  
NT1 usur  
NT1 western area power administration  
NT1 wipp  
NT1 y-12 plant

RT ucla  
RT us aec  
RT us erda  
RT us fea

**US DOE FIELD OFFICES**

INIS: 1992-08-12; ETDE: 1983-03-24  
UF field offices  
UF operations offices  
\*BT1 us doe

**US DOE INSPECTOR GENERAL**

INIS: 1994-09-29; ETDE: 1980-06-06  
UF inspector general (us doe)  
\*BT1 us doe  
RT audits

**us doe program management**

INIS: 1992-06-10; ETDE: 1992-02-14  
(From February 1992 to January 1993, this was a valid ETDE descriptor.)  
USE program management  
USE us doe

**US DOI**

INIS: 1992-05-22; ETDE: 1978-04-06  
UF department of interior  
\*BT1 us organizations  
NT1 us bureau of mines  
NT1 us bureau of reclamation  
NT1 us fws  
NT1 us gs  
NT1 us osm

**US DOJ**

INIS: 2000-04-19; ETDE: 1979-02-23  
UF justice department  
UF us department of justice  
\*BT1 us organizations  
NT1 federal bureau of investigation

**US DOL**

INIS: 2000-04-12; ETDE: 1979-02-23  
UF us department of labor  
\*BT1 us organizations  
NT1 us osha

**US DOS**

INIS: 2000-04-12; ETDE: 1979-12-17  
UF us department of state  
\*BT1 us organizations

**US DOT**

INIS: 1979-09-18; ETDE: 1977-08-09  
*US Department of Transportation.*  
UF department of transportation  
\*BT1 us organizations  
NT1 us coast guard  
NT1 us faa

**US EAST COAST**

INIS: 1997-06-17; ETDE: 1991-12-18  
(Prior to December 1991 this concept was indexed to EAST COAST in ETDE.)

UF east coast

\*BT1 usa

RT atlantic ocean

RT connecticut

RT delaware

RT florida

RT georgia

RT maine

RT maryland

RT massachusetts

RT mid-atlantic bight

RT new hampshire

RT new jersey

RT new york

RT new york bight

RT north carolina

RT rhode island

RT south carolina

RT virginia

## US ECONOMIC RECOVERY TAX ACT

INIS: 2000-04-12; ETDE: 1992-02-21  
(Prior to February 1992 this subject was indexed by ECONOMIC RECOVERY TAX ACT.)

UF economic recovery tax act  
BT1 laws  
RT economic development  
RT financial incentives  
RT legislation  
RT taxes  
RT windfall profits tax

### us ees

INIS: 2000-04-12; ETDE: 1978-08-08  
USE us energy extension service

## US EMERGENCY PREPAREDNESS ACT

INIS: 1992-03-26; ETDE: 1992-02-21  
(Prior to February 1992 this subject was indexed to EMERGENCY PREPAREDNESS ACT.)

UF emergency preparedness act  
BT1 laws  
RT emergency plans  
RT energy supplies

## US ENERGY EXTENSION SERVICE

INIS: 2000-04-12; ETDE: 1992-02-24  
(Prior to February 1992 this subject was indexed by ENERGY EXTENSION SERVICE.)

UF ees  
UF energy extension service  
UF us ees  
\*BT1 us doe

## US ENERGY INFORMATION ADMINISTRATION

INIS: 1992-03-26; ETDE: 1992-02-24  
(Prior to February 1992 this subject was indexed to ENERGY INFORMATION ADMINISTRATION.)

UF energy information administration  
\*BT1 us doe

## US ENERGY POLICY AND CONSERVATION ACT

INIS: 1992-03-26; ETDE: 1992-02-24  
US Energy Policy and Conservation Act.

UF energy policy and conservation act  
UF epca  
BT1 laws  
RT energy conservation  
RT energy policy

## US ENERGY SECURITY ACT

INIS: 1992-03-26; ETDE: 1992-02-21  
(Prior to February 1992 this subject was indexed to ENERGY SECURITY ACT.)

UF energy security act  
BT1 laws  
RT synthetic fuels corporation

## US ENERGY TAX ACT

INIS: 1992-03-26; ETDE: 1992-02-24  
(Prior to February 1992 this subject was indexed to ENERGY TAX ACT.)

UF energy tax act  
\*BT1 national energy acts  
RT energy conservation  
RT energy consumption  
RT financial incentives

## US EPA

INIS: 1978-07-04; ETDE: 1977-11-29  
UF environmental protection agency

UF epa  
BT1 pollution control agencies  
\*BT1 us organizations

### us era

INIS: 2000-04-12; ETDE: 1979-11-23  
USE economic regulatory administration

## US ERDA

1996-07-16  
US Energy Research and Development Administration; created in 1975 and includes part of US AEC research activities, the Office of Coal Research, and the solar and geothermal research activities from the National Science Foundation.

UF energy research and development administration  
\*BT1 us organizations  
NT1 ames laboratory  
NT1 anl  
NT1 atomic international canoga park plant  
NT1 battelle columbus laboratory  
NT1 battelle pacific northwest laboratories  
NT1 bettis  
NT1 bnl  
NT1 feed materials production center  
NT1 hanford reservation  
NT1 hapo  
NT1 idaho chemical processing plant  
NT1 kansas city plant  
NT1 kapl  
NT1 laramie energy research center  
NT1 lawrence berkeley laboratory  
NT1 lawrence livermore laboratory  
NT1 mound laboratory  
NT1 oak ridge reservation  
NT1 orgdp  
NT1 ornl  
NT1 paducah plant  
NT1 pantex plant  
NT1 pinellas plant  
NT1 portsmouth gaseous diffusion plant  
NT1 rocky flats plant  
NT1 sandia laboratories  
NT1 savannah river plant  
NT1 sequoyah uf6 production plant  
NT1 stanford linear accelerator center  
NT1 y-12 plant  
RT us aec  
RT us doe

## US FAA

INIS: 1993-06-03; ETDE: 1978-09-13  
US Federal Aviation Administration.  
UF federal aviation administration  
\*BT1 us dot

## US FDA

INIS: 1978-11-27; ETDE: 1978-06-14  
UF food and drug administration  
\*BT1 us hew

## US FEA

1977-07-05  
US Federal Energy Administration.  
UF federal energy administration  
\*BT1 us organizations  
RT us doe

## US FEDERAL ASSISTANCE PROGRAMS

INIS: 1993-03-26; ETDE: 1992-02-24  
(Prior to February 1992 this subject was indexed to FEDERAL ASSISTANCE PROGRAMS.)  
UF federal assistance programs  
RT government policies  
RT local government  
RT national government

RT state government  
RT us affirmative action program

## US FEDERAL POWER COMMISSION

INIS: 2000-04-12; ETDE: 1992-02-24  
(Prior to February 1992 this subject was indexed by FEDERAL POWER COMMISSION.)

UF federal power commission  
UF fpc  
\*BT1 us organizations

## US FEMA

INIS: 1993-06-02; ETDE: 1984-02-10  
US Federal Emergency Management Agency.  
UF federal emergency management agency  
\*BT1 us organizations

## US FERC

INIS: 1992-02-03; ETDE: 1978-02-14  
UF federal energy regulatory commission  
\*BT1 us doe  
RT ferc gas areas  
RT regulations

## US FOREST SERVICE

INIS: 2000-04-12; ETDE: 1981-06-13  
\*BT1 us doa

## US FWS

INIS: 1992-10-05; ETDE: 1984-12-26  
US Fish and Wildlife Service.  
UF fish and wildlife service  
\*BT1 us doi

## US GAO

INIS: 1992-07-23; ETDE: 1979-02-23  
General Accounting Office.  
UF general accounting office  
\*BT1 us organizations  
RT accounting

## us general services administration

INIS: 2000-04-12; ETDE: 1979-02-23  
USE us gsa

## us geological survey

INIS: 1992-05-28; ETDE: 1981-06-16  
USE us gs

## US GS

INIS: 1992-05-28; ETDE: 1981-06-16  
UF us geological survey  
\*BT1 us doi

## US GSA

INIS: 2000-04-12; ETDE: 1979-02-23  
UF us general services administration  
\*BT1 us organizations

## US GULF COAST

INIS: 1992-06-04; ETDE: 1992-01-24  
(Prior to June 1992 this subject was indexed to GULF COAST.)  
UF gulf coast  
\*BT1 usa  
RT alabama  
RT florida  
RT gulf of mexico  
RT louisiana  
RT mississippi  
RT texas

## US HEW

INIS: 2000-04-12; ETDE: 1979-02-23  
UF us department of health, education, and welfare  
\*BT1 us organizations  
NT1 us fda



**US HUD**

INIS: 1977-11-21; ETDE: 1977-04-12

US Department of Housing and Urban Development.

UF us department of housing and urban development

\*BT1 us organizations

**US IRS**

INIS: 1992-04-09; ETDE: 1978-04-06

U. S. Internal Revenue Service.

UF internal revenue service

\*BT1 us department of treasury

**US JCAE**

INIS: 1975-11-27; ETDE: 1975-09-12

US Joint Committee on Atomic Energy.

UF joint committee on atomic energy

\*BT1 us organizations

**US MRS PROJECT**

INIS: 1986-09-26; ETDE: 1991-10-29

Monitored Retrievable Storage project in the USA for the long-term isolation of spent fuel and radioactive wastes permitting continuous monitoring, ready retrieval and periodic maintenance as necessary to assure containment.

RT high-level radioactive wastes

RT radioactive waste storage

RT spent fuel storage

RT spent fuels

**US MSHA**

INIS: 2000-04-12; ETDE: 1982-02-08

UF mine safety and health administration

\*BT1 us doe

**US NAPAP**

INIS: 1991-12-18; ETDE: 1991-10-31

United States National Acid Precipitation Assessment Program.

UF napap

UF national acid precipitation assessment program

RT acid rain

RT information needs

RT research programs

RT us national program plans

RT us organizations

**US NATIONAL ACADEMY OF SCIENCE**

\*BT1 us organizations

**us national council on radiation protection and measurements**

1993-11-10

USE us ncrp

**us national energy act**

INIS: 2000-04-12; ETDE: 1992-02-14

(Prior to February 1992 this concept was indexed by NATIONAL ENERGY ACT in ETDE. From February 1992 to August 1993 this was a valid ETDE descriptor.)

USE national energy acts

**US NATIONAL ENERGY CONSERVATION POLICY ACT**

INIS: 2000-04-12; ETDE: 1992-02-14

(Prior to February 1992 this concept in ETDE was indexed by NATIONAL ENERGY CONSERVATION POLICY ACT.)

UF national energy conservation policy act

\*BT1 national energy acts

RT energy conservation

RT energy policy

**US NATIONAL ENERGY PLAN**

INIS: 1992-03-26; ETDE: 1992-02-14

The plan proposed by President Carter in April 1977, and subsequent plans developed by the Department of Energy.

(Prior to February 1992 this concept was indexed to NATIONAL ENERGY PLAN in ETDE.)

\*BT1 national energy plans

RT energy conservation

RT energy sources

RT energy supplies

RT national energy acts

RT us national program plans

**US NATIONAL ENVIRONMENTAL POLICY ACT**

INIS: 1993-11-10; ETDE: 1992-01-13

Until March 1992, this descriptor was US NATL ENVIRONMENTPOLICY ACT, and from then to November 1993 it was US NATIONAL ENVIRONMENTAL POLI.

UF national environmental policy act

UF nepa

BT1 laws

RT environment

RT environmental impact statements

RT environmental policy

**US NATIONAL IGNITION FACILITY**

INIS: 1997-06-05; ETDE: 1997-05-08

Facility for inertial confinement (thermonuclear) fusion.

UF national ignition facility

UF nij

UF us nij

RT icf devices

RT inertial confinement

RT solid state lasers

**us national oceanic and atmospheric administration**

INIS: 1992-04-13; ETDE: 1980-01-24

USE us noaa

**US NATIONAL PROGRAM PLANS**

INIS: 1993-06-02; ETDE: 1992-02-14

Energy research programs.

UF national program plans

RT demonstration programs

RT government policies

RT national energy acts

RT research programs

RT us napap

RT us national energy plan

**US NATURAL GAS POLICY ACT**

INIS: 1992-03-27; ETDE: 1992-02-14

(Prior to February 1992 this concept was indexed to NATURAL GAS POLICY ACT in ETDE.)

UF natural gas policy act

\*BT1 national energy acts

RT consumer protection

RT deregulation

RT energy policy

RT natural gas industry

RT pricing regulations

**US NAVAL OIL SHALE RESERVES**

INIS: 1992-03-26; ETDE: 1992-02-14

(Prior to February 1992 this concept was indexed to NAVAL OIL SHALE RESERVES in ETDE.)

UF naval oil shale reserves

\*BT1 oil shale deposits

\*BT1 reserves

RT colorado

RT utah

**US NAVAL PETROLEUM RESERVES**

INIS: 1992-04-07; ETDE: 1992-02-14

(Prior to February 1992 this concept was indexed to NAVAL PETROLEUM RESERVE in ETDE.)

UF naval petroleum reserve

\*BT1 petroleum deposits

\*BT1 reserves

RT california

RT energy supplies

RT fuel supplies

RT underground storage

RT wyoming

**us naval research laboratory cyclotron**

INIS: 1984-06-21; ETDE: 2002-05-24

USE nrl cyclotron

**us naval research laboratory linac**

INIS: 1984-06-21; ETDE: 2002-05-24

USE nrl linac

**US NBS**

INIS: 1979-02-21; ETDE: 1978-04-06

UF national bureau of standards

UF nbs (us)

\*BT1 us doc

**us nbs reactor**

USE nbsr reactor

**US NCRP**

US National Council on Radiation Protection and Measurements.

UF national council on radiation protection/measurements (us)

UF ncrp (us)

UF us national council on radiation protection and measurements

\*BT1 us organizations

**us nij**

INIS: 1997-06-05; ETDE: 1997-05-08

USE us national ignition facility

**US NIOSH**

INIS: 1992-10-01; ETDE: 1992-01-24

US National Institute for Occupational Safety and Health.

UF national institute for occupational safety and health

UF niosh

\*BT1 us organizations

**US NIPER**

INIS: 1992-03-03; ETDE: 1991-11-01

National Institute for Petroleum and Energy Research.

UF national institute for petroleum and energy research

UF niper

\*BT1 us doe

**US NOAA**

INIS: 1992-04-13; ETDE: 1980-01-24

UF national oceanic and atmospheric administration

UF us national oceanic and atmospheric administration

\*BT1 us organizations

**US NRC**

United States Nuclear Regulatory Commission; prior to 1975 was part of US AEC and earlier material is so indexed.

\*BT1 us organizations

RT us aec

**US NUCLEAR DATA NETWORK**

INIS: 1992-07-21; ETDE: 1985-04-09

\*BT1 us organizations

RT international nuclear data committee  
RT nuclear data collections

## US OCCUPATIONAL SAFETY AND HEALTH ACT

INIS: 1992-08-13; ETDE: 1992-02-14

US Occupational Safety and Health Act.

UF occupational safety and health act

BT1 laws  
RT health hazards  
RT occupational diseases  
RT safety  
RT working conditions

## US ORGANIZATIONS

1997-06-19

BT1 national organizations  
NT1 federal radiation council  
NT1 nasa  
NT1 national science foundation  
NT1 naval research laboratory  
NT1 orau  
NT1 orins  
NT1 synthetic fuels corporation  
NT1 tennessee valley authority  
NT1 us acda  
NT1 us aec  
NT2 ames laboratory  
NT2 anl  
NT2 bettis  
NT2 bnl  
NT2 feed materials production center  
NT2 hapo  
NT2 idaho chemical processing plant  
NT2 kapl  
NT2 lawrence berkeley laboratory  
NT2 lawrence livermore laboratory  
NT2 mound laboratory  
NT2 ornl  
NT2 paducah plant  
NT2 rocky flats plant  
NT2 sandia laboratories  
NT2 savannah river plant  
NT2 sequoyah uf6 production plant  
NT2 y-12 plant  
NT1 us ceq  
NT1 us cia  
NT1 us department of treasury  
NT2 us irs  
NT1 us doa  
NT2 us forest service  
NT2 us rea  
NT1 us doc  
NT2 us nbs  
NT1 us dod  
NT2 us corps of engineers  
NT1 us doe  
NT2 alaska power administration  
NT2 ames laboratory  
NT2 anl  
NT2 atomics international canoga park plant  
NT2 bartlesville energy technology center  
NT2 battelle pacific northwest laboratories  
NT2 bettis  
NT2 bnl  
NT2 bonneville power administration  
NT2 economic regulatory administration  
NT2 environmental measurements laboratory  
NT2 feed materials production center  
NT2 fermilab  
NT2 hanford engineering development laboratory  
NT2 hanford reservation  
NT2 hapo  
NT2 idaho chemical processing plant  
NT2 ineel

NT2 inhalation toxicology research institute  
NT2 kansas city plant  
NT2 kapl  
NT2 lanl  
NT2 laramie energy research center  
NT2 laramie energy technology center  
NT2 lawrence berkeley laboratory  
NT2 lawrence livermore national laboratory  
NT3 lawrence livermore laboratory  
NT2 morgantown energy technology center  
NT2 mound laboratory  
NT2 national renewable energy laboratory  
NT2 nevada test site  
NT2 oak ridge reservation  
NT2 orgdp  
NT2 ornl  
NT2 paducah plant  
NT2 pantex plant  
NT2 pinellas plant  
NT2 pittsburgh energy technology center  
NT2 portsmouth centrifuge enrichment plant  
NT2 portsmouth gaseous diffusion plant  
NT2 rocky flats plant  
NT2 sandia national laboratories  
NT3 sandia laboratories  
NT2 savannah river plant  
NT2 sequoyah uf6 production plant  
NT2 southeastern power administration  
NT2 southwestern power administration  
NT2 stanford linear accelerator center  
NT2 us doe field offices  
NT2 us doe inspector general  
NT2 us energy extension service  
NT2 us energy information administration  
NT2 us ferc  
NT2 us msha  
NT2 us niper  
NT2 usnr  
NT2 western area power administration  
NT2 wipp  
NT2 y-12 plant  
NT1 us doi  
NT2 us bureau of mines  
NT2 us bureau of reclamation  
NT2 us fws  
NT2 us gs  
NT2 us osm  
NT1 us doj  
NT2 federal bureau of investigation  
NT1 us dol  
NT2 us osha  
NT1 us dos  
NT1 us dot  
NT2 us coast guard  
NT2 us faa  
NT1 us epa  
NT1 us erda  
NT2 ames laboratory  
NT2 anl  
NT2 atomics international canoga park plant  
NT2 battelle columbus laboratory  
NT2 battelle pacific northwest laboratories  
NT2 bettis  
NT2 bnl  
NT2 feed materials production center  
NT2 hanford reservation  
NT2 hapo  
NT2 idaho chemical processing plant  
NT2 kansas city plant  
NT2 kapl  
NT2 laramie energy research center

NT2 lawrence berkeley laboratory  
NT2 lawrence livermore laboratory  
NT2 mound laboratory  
NT2 oak ridge reservation  
NT2 orgdp  
NT2 ornl  
NT2 paducah plant  
NT2 pantex plant  
NT2 pinellas plant  
NT2 portsmouth gaseous diffusion plant  
NT2 rocky flats plant  
NT2 sandia laboratories  
NT2 savannah river plant  
NT2 sequoyah uf6 production plant  
NT2 stanford linear accelerator center  
NT2 y-12 plant  
NT1 us fea  
NT1 us federal power commission  
NT1 us fema  
NT1 us gao  
NT1 us gsa  
NT1 us hew  
NT2 us fda  
NT1 us hud  
NT1 us jcae  
NT1 us national academy of science  
NT1 us nrcp  
NT1 us niosh  
NT1 us noaa  
NT1 us nrc  
NT1 us nuclear data network  
NT1 us ota  
NT1 us postal service  
NT1 us veterans administration  
RT us napap

## US OSHA

INIS: 1980-09-12; ETDE: 1978-06-14

US Occupational Safety and Health Administration.

UF occupational safety and health administration

UF osha

\*BT1 us dol

## US OSM

INIS: 1992-04-08; ETDE: 1985-09-24

Office of Surface Mining, Reclamation and Enforcement, that regulates all coal mining activities in the USA.

\*BT1 us doi

RT coal mining

## US OTA

INIS: 1993-06-07; ETDE: 1981-03-17

US Office of Technology Assessment.

UF office of technology assessment

\*BT1 us organizations

RT technology transfer

## US POSTAL SERVICE

INIS: 2000-04-12; ETDE: 1979-02-23

\*BT1 us organizations

## US POWER PLANT AND INDUSTRIAL FUEL USE ACT

INIS: 2000-04-12; ETDE: 1992-02-25

(Prior to February 1992 this subject was indexed by POWER PLANT AND INDUSTRIAL FUEL USE ACT.)

UF fuel use act

UF power plant and industrial fuel use act

\*BT1 national energy acts

RT electric utilities

RT fossil-fuel power plants

RT fossil fuels

**US PUBLIC UTILITY REGULATORY POLICIES ACT**

INIS: 1992-07-23; ETDE: 1992-02-25

US Public Utility Regulatory Policies Act.

UF public utility regulatory policies act

UF purpa

\*BT1 national energy acts

RT energy conservation

RT energy efficiency

RT public utilities

RT regulations

**US REA**

INIS: 2000-04-12; ETDE: 1979-09-06

UF rural electrification administration

\*BT1 us doa

**us resource recovery acts**

INIS: 1992-06-04; ETDE: 1992-02-14

(Prior to February 1992 this concept was indexed to RESOURCE RECOVERY ACTS in ETDE.)

USE resource recovery acts

**US SUPERFUND**

INIS: 1992-02-05; ETDE: 1991-11-01

Comprehensive environmental response, compensation, and Liability Act of 1980: public law 96-510.

(Prior to November 1991 this material was indexed to SUPERFUND.)

UF cercla

UF superfund

\*BT1 pollution laws

RT enforcement

RT environmental policy

RT hazardous materials

RT remedial action

RT sanitary landfills

RT waste disposal

RT waste disposal acts

RT wastes

**US VETERANS ADMINISTRATION**

INIS: 2000-04-12; ETDE: 1979-02-23

\*BT1 us organizations

**us water pollution control act**

INIS: 2000-04-12; ETDE: 1977-04-14

USE clean water acts

**US WEST COAST**

INIS: 1992-06-04; ETDE: 1991-12-18

(Prior to June 1992 this concept was indexed to WEST COAST in ETDE.)

UF west coast

\*BT1 usa

RT california

RT oregon

RT pacific ocean

RT washington

**USA**

UF central region

UF federal region i

UF federal region ii

UF federal region iii

UF federal region iv

UF federal region ix

UF federal region v

UF federal region vi

UF federal region vii

UF federal region viii

UF federal region x

UF great lakes region

UF great plains

UF mid-atlantic region

UF midwest region

UF new england

UF ozark region

UF pacific northwest region

UF region i

UF region ii

UF region iii

UF region iv

UF region ix

UF region v

UF region vi

UF region vii

UF region viii

UF region x

UF rocky mountain region

UF southeast region

UF southwest region

UF united states of america

UF western region

SF north atlantic region

BT1 developed countries

BT1 north america

NT1 alabama

NT1 alaska

NT1 american samoa

NT1 arizona

NT1 arkansas

NT1 california

NT2 brawley geothermal field

NT2 coso hot springs

NT2 los angeles

NT1 colorado

NT2 mahogany zone

NT2 sand wash basin

NT1 connecticut

NT1 delaware

NT1 florida

NT2 cape kennedy

NT1 georgia

NT2 atlanta

NT1 great basin

NT1 hawaii

NT1 idaho

NT1 illinois

NT2 chicago

NT1 indiana

NT1 iowa

NT1 kansas

NT1 kentucky

NT1 louisiana

NT1 maine

NT1 maryland

NT1 massachusetts

NT1 michigan

NT1 minnesota

NT1 mississippi

NT1 missouri

NT1 montana

NT2 powder river basin

NT1 nebraska

NT1 nevada

NT2 steamboat springs

NT2 tonopah test range

NT1 new hampshire

NT1 new jersey

NT1 new mexico

NT2 los alamos

NT1 new york

NT2 new york city

NT1 north carolina

NT1 north dakota

NT1 ohio

NT2 cleveland

NT1 oklahoma

NT1 oregon

NT2 mt hood

NT1 pennsylvania

NT2 pittsburgh

NT1 puerto rico

NT1 rhode island

NT1 south carolina

NT1 south dakota

NT2 table mountain area

NT1 tennessee

NT2 chattanooga

NT2 oak ridge

NT1 texas

NT1 us east coast

NT1 us gulf coast

NT1 us west coast

NT1 utah

NT2 roosevelt hot springs

NT1 vermont

NT1 virgin islands

NT1 virginia

NT1 washington

NT2 richland

NT1 washington dc

NT1 west virginia

NT1 wisconsin

NT1 wyoming

NT2 powder river basin

NT2 rock springs sites

NT2 washakie basin

RT appalachian mountains

RT oecd

RT pad districts

RT rocky mountains

RT trust territory of the pacific islands

RT us aec

**useful life**

INIS: 1992-02-26; ETDE: 1976-08-05

USE service life

**USES**

For the evaluation of the usefulness of a procedure, material, or device.

UF applications

NT1 diagnostic uses

NT1 therapeutic uses

NT1 third-party use

RT efficiency

RT performance

**USSR**

1997-08-20

All the constituents of the former USSR are listed below; use one or more as required. (Prior to September 1997 USSR was a valid descriptor.)

SEE armenia

SEE azerbaijan

SEE belarus

SEE estonia

SEE kazakhstan

SEE kyrgyzstan

SEE latvia

SEE lithuania

SEE moldova

SEE republic of georgia

SEE russian federation

SEE tajikistan

SEE turkmenistan

SEE ukraine

SEE uzbekistan

**ussr organizations**

INIS: 1997-07-30; ETDE: 1975-12-16

(Until July 1997 this was a valid descriptor.)

USE russian organizations

**ustav jaderneho vyzkumu**

INIS: 1997-11-05; ETDE: 2002-05-24

USE uju

**ustav jadernych vyzkumu**

2000-04-12

USE uju

**USTILAGO**

\*BT1 eumycota

BT1 parasites

RT cereals

**USUR**

*INIS: 1994-02-28; ETDE: 1981-07-06*

*UF* united states uranium registry

\*BT1 us doe

*RT* nuclear industry

*RT* radiation protection

**UTAH**

1997-06-19

\*BT1 usa

**NT1** roosevelt hot springs

*RT* asphalt ridge deposit

*RT* circle cliffs deposit

*RT* great basin

*RT* great salt lake

*RT* green river formation

*RT* natural bridges national monument

*RT* paradox basin

*RT* pr springs deposit

*RT* sunnyside deposit

*RT* tar sand triangle deposit

*RT* uinta basin

*RT* uinta formation

*RT* us naval oil shale reserves

*RT* western us overthrust belt

*RT* white river

*RT* white river shale project

**uterine cervix carcinoma**

USE carcinomas

USE urogenital system diseases

**UTERUS**

*UF* endometrium

*UF* myometrium

\*BT1 female genitals

*RT* embryos

*RT* fetuses

*RT* oxytocin

*RT* pregnancy

**utilities**

*INIS: 2000-04-12; ETDE: 1979-05-03*

SEE electric utilities

SEE gas utilities

SEE public utilities

**UTP**

*ETDE: 1975-09-11*

*UF* uridine triphosphate

\*BT1 nucleotides

**utr-10 iowa state university reactor**

USE iowa utr-10 reactor

**UTR-10-KINKI REACTOR**

*Atomic Energy Research Institute, Kinki Univ., Higashiosaka, Osaka, Japan.*

*UF* kinki university utr-10 reactor

\*BT1 argonaut type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**utr-b queen mary college reactor**

2000-04-12

USE queen mary college utr-b reactor

**UTRR REACTOR**

*Atomic Energy Organization of Iran, Nuclear Research Centre, Teheran, Iran.*

*UF* teheran university research reactor

*UF* university of teheran research reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**UVALDE DEPOSIT**

*INIS: 2000-04-12; ETDE: 1983-07-07*

\*BT1 oil sand deposits

*RT* oil sands

*RT* texas

**UVAR REACTOR**

*Univ. of Virginia, Charlottesville, Virginia, USA. Decommissioned in 2005.*

*UF* university of virginia reactor

*UF* virginia university reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

**UVEA**

*UF* choroid

\*BT1 eyes

**UVVVR**

*INIS: 2000-04-12; ETDE: 1979-07-24*

*Ustavu pro Vyzkum, Vyrobu a Vyuziti Radioisotopu - Institute for the Research, Production and Application of Radioisotopes, Prague.*

\*BT1 czech organizations

**UWMAK DEVICES**

*ETDE: 1979-04-11*

*UF* numak reactors

*UF* university of wisconsin tokamak

*UF* uwmak reactors

*UF* wisconsin university tokamak

\*BT1 tokamak devices

**uwmak reactors**

*INIS: 2000-04-12; ETDE: 1978-04-27*

(Prior to July 1985 this was a valid ETDE descriptor.)

USE uwmak devices

**UWNR REACTOR**

*Univ. of Wisconsin, Madison, Wisconsin, USA.*

*UF* university of wisconsin nuclear reactor

*UF* wisconsin university nuclear reactor

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 triga type reactors

**UWTR REACTOR**

*Univ. of Washington, Seattle, Washington, USA. Shut down in 1988.*

*UF* university of washington reactor

*UF* washington university (seattle) reactor

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 thermal reactors

\*BT1 training reactors

**UZBEK ORGANIZATIONS**

2004-03-31

BT1 national organizations

**uzbek wwr-c reactor**

2000-04-12

USE wwr-s-tashkent reactor

**uzbek wwr-s reactor**

*INIS: 1976-06-23; ETDE: 2002-05-24*

USE wwr-s-tashkent reactor

**UZBEKISTAN**

*INIS: 1997-08-20; ETDE: 1993-04-08*

(Until January 1993, this was indexed by USSR.)

*SF* soviet union

*SF* union of soviet socialist republics

*SF* ussr

BT1 asia

*RT* aral sea

**v-1 reactor (bohunice)**

USE bohunice v-1 reactor

**v-2 reactor (bohunice)**

*INIS: 1979-05-28; ETDE: 1979-09-06*

USE bohunice v-2 reactor

**v-2 reactor (dukovany)**

2000-04-12

(Prior to August 1997 DUKOVANY V-2 reactor was used for this concept in ETDE.)

SEE dukovany-1 reactor

SEE dukovany-2 reactor

SEE dukovany-3 reactor

SEE dukovany-4 reactor

**V-A THEORY**

*UF* vector-axial vector theory

*RT* axial-vector currents

*RT* current algebra

*RT* fermi interactions

*RT* vector currents

**V CENTERS**

\*BT1 color centers

**V CODES**

BT1 computer codes

**V TROUGH COLLECTORS**

*INIS: 2000-04-12; ETDE: 1978-10-25*

\*BT1 concentrating collectors

**va characteristic**

USE electric conductivity

**VAALPUTS RADIOACTIVE WASTE DISPOSAL FACILITY**

*INIS: 1987-05-26; ETDE: 1991-08-20*

*Vaalputs Radioactive Waste Disposal Facility in Bushmanland, South Africa.*

\*BT1 radioactive waste facilities

**VACANCIES**

Not for HOLES.

\*BT1 point defects

**NT1** color centers

**NT2** a centers

**NT2** e centers

**NT2** f centers

**NT2** h centers

**NT2** i centers

**NT2** m centers

**NT2** r centers

**NT2** s centers

**NT2** u centers

**NT2** v centers

**NT2** x centers

**NT2** z centers

**NT1** frenkel defects

**NT1** schottky defects

*RT* traps

**VACCINES**

*RT* antigens

*RT* bacteria

*RT* fungi

*RT* immunity

*RT* inoculation

*RT* viruses

**VACCINIA VIRUS**

\*BT1 viruses

**vacuum (1-1000 micro pa)**

2003-11-19

USE pressure range micro pa

**vacuum (1-1000 milli pa)**

2003-11-19

USE pressure range milli pa

**vacuum (1-1000 nano pa)**

2003-11-19

USE pressure range nano pa

**vacuum (1-1000 pa)**

2003-11-19

USE pressure range pa

**vacuum (7.5 - 7.5x10(3) torr)**

2003-11-19

USE pressure range kilo pa

**vacuum (7.5x10(-12) - 7.5x10(-9) torr)**

2003-11-19

USE pressure range nano pa

**vacuum (7.5x10(-3) - 7.5 torr)**

2003-11-19

USE pressure range pa

**vacuum (7.5x10(-6) - 7.5x10(-3) torr)**

2003-11-19

USE pressure range milli pa

**vacuum (7.5x10(-9) - 7.5x10(-6) torr)**

2003-11-19

USE pressure range micro pa

**vacuum (below 1 nano pa)**

2003-11-19

USE pressure range below 1 nano pa

**vacuum (below 7.5x10(-12) torr)**

2003-11-19

USE pressure range below 1 nano pa

**vacuum (rough)**

SEE pressure range kilo pa

SEE pressure range pa

**vacuum arc centrifuges**

INIS: 1985-07-23; ETDE: 2002-05-24

USE plasma centrifuges

**VACUUM CARBONATE PROCESS**

INIS: 2000-04-12; ETDE: 1979-01-30

\*BT1 desulfurization

RT waste processing

**VACUUM CASTING**

UF continuous vacuum casting

\*BT1 casting

**VACUUM COATING**

INIS: 1979-04-27; ETDE: 1976-05-13

For the process; for the product use VAPOR DEPOSITED COATINGS.

\*BT1 surface coating

RT physical vapor deposition

RT sputtering

RT vacuum evaporation

RT vapor deposited coatings

**VACUUM DISTILLATION**

INIS: 1999-03-08; ETDE: 1981-11-10

\*BT1 distillation

**VACUUM EVAPORATION**

INIS: 1986-05-26; ETDE: 1981-07-18

\*BT1 evaporation

RT physical vapor deposition

RT vacuum coating

RT vapor deposited coatings

RT vapor plating

**VACUUM FERMENTATION**

INIS: 2000-04-12; ETDE: 1978-10-23

Fermentation at about 50 to 100 mm hg.

\*BT1 fermentation

**VACUUM FURNACES**

BT1 furnaces

RT arc furnaces

RT electron beam furnaces

**VACUUM GAGES**

1996-07-18

\*BT1 pressure gages

NT1 ionization gages

NT2 bayard-alpert gages

NT2 philips gages

NT2 radioactive ionization gages

NT1 knudsen gages

NT1 pirani gages

RT vacuum systems

**vacuum insulation panels**

2006-05-12

USE pressure range pa

USE thermal insulation

**VACUUM MELTING**

\*BT1 melting

**VACUUM POLARIZATION**

RT casimir effect

RT quantum electrodynamics

RT vacuum states

**VACUUM PUMPS**

\*BT1 laboratory equipment

\*BT1 pumps

NT1 cryopumps

NT1 sputter-ion pumps

NT1 turbomolecular pumps

RT getters

RT pressure range

RT vacuum systems

**VACUUM STATES**

RT annihilation operators

RT creation operators

RT field operators

RT gluon condensation

RT instantons

RT quark condensation

RT vacuum polarization

**VACUUM SYSTEMS**

RT accelerators

RT vacuum gages

RT vacuum pumps

**vacuum ultraviolet radiation**

USE far ultraviolet radiation

**VACUUM WELDING**

\*BT1 welding

RT electron beam welding

**vagina**

USE female genitals

**vagotomy**

USE surgery

USE vagus

**VAGUS**

UF vagotomy

\*BT1 autonomic nervous system

\*BT1 nerves

RT parasympathomimetics

**VAH RIVER**

INIS: 2001-12-06; ETDE: 2002-01-18

\*BT1 rivers

RT slovakia

**VAHNUM-1 REACTOR**

INIS: 1977-02-08; ETDE: 1977-04-13

Vahnum, North Rhein Westfalia, Federal Republic of Germany.

UF kernkraftwerk vahnnum-1

\*BT1 pwr type reactors

**VAHNUM-2 REACTOR**

INIS: 1977-02-08; ETDE: 1977-04-13

Vahnum, North Rhein Westfalia, Federal Republic of Germany.

UF kernkraftwerk vahnnum-2

\*BT1 pwr type reactors

**VAK REACTOR**

UF kahl-vak reactor

UF versuchsatomkraftwerk kahl reactor

\*BT1 bwr type reactors

**VALENCE**

(From February 1979 to March 1997 IONIC POTENTIAL was a valid ETDE descriptor.)

UF electron acceptor

UF electron donor

UF ionic potential

UF oxidation state

UF valence electrons

UF valency states

NT1 coordination valences

RT hot atom chemistry

RT radiation chemistry

RT redox potential

**valence electrons**

USE electrons

USE valence

**VALENCY MODEL**

2000-04-12

A model for certain neutron capture reactions.

\*BT1 nuclear models

RT capture

RT nuclear reactions

**valency states**

USE valence

**VALERIC ACID**

UF pentanoic acid

\*BT1 monocarboxylic acids

**VALIDATION**

INIS: 1995-04-09; ETDE: 1980-07-09

Act of testing for compliance with a standard.

BT1 testing

RT evaluation

RT mathematical models

RT verification

**VALINE**

UF aminoisovaleric acid-alpha

\*BT1 amino acids

**VALINOMYCIN**

1977-11-02

\*BT1 antibiotics

RT lipids

**vallecitos reactor**

2000-04-12

USE evsr reactor

**vallecitos vbwr reactor**

USE vbwr reactor

**VALLEYS**

INIS: 1992-05-26; ETDE: 1976-06-07

NT1 imperial valley

NT1 long valley

NT1 raft river valley

RT complex terrain

RT mountains

RT watersheds

**values**

*INIS: 2000-04-12; ETDE: 1979-09-26*  
 (Prior to December 1991 this was a valid  
 ETDE descriptor.)  
 SEE cost  
 SEE data  
 SEE economics  
 SEE socio-economic factors

**VALVES**

\*BT1 flow regulators  
**NT1** relief valves  
**NT1** water faucets  
*RT* bellows  
*RT* closures  
*RT* pipe fittings  
*RT* reactor cooling systems

**van allen belts**

USE radiation belts

**VAN DE GRAAFF ACCELERATORS**

*1996-07-18*  
*UF* learn tandem accelerator  
 \*BT1 electrostatic accelerators  
**NT1** crnl mp tandem accelerator  
**NT1** jaeri tandem accelerator  
**NT1** orsay tandem accelerator  
**NT1** vivitron tandem accelerator  
*RT* tandem electrostatic accelerators  
*RT* vicksi accelerator

**VAN DER WAALS FORCES**

*RT* adsorption  
*RT* intermolecular forces  
*RT* molecules  
*RT* virial equation

**VAN HOVE-HUGENHOLTZ THEORY**

*UF* hugenholtz-pines theory  
*RT* many-body problem

**VAN HOVE MODEL**

\*BT1 particle models  
*RT* regge poles

**van hove-prigogine theory**

USE prigogine theorem

**VAN HOVE THEORY**

*RT* slowing-down  
*RT* transport theory

**VAN VLECK THEORY**

*RT* paramagnetism

**VANADATES**

*Specific compounds should be indexed by  
 coordination of a descriptor of the form  
 (CATION) COMPOUNDS and the above  
 anion descriptor.*

BT1 oxygen compounds  
 \*BT1 vanadium compounds  
**NT1** potassium vanadates  
**NT1** uranium vanadates  
*RT* vanadium oxides

**VANADIUM**

\*BT1 transition elements

**VANADIUM 40**

*2008-01-28*  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 vanadium isotopes

**VANADIUM 41**

*2008-01-28*  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 vanadium isotopes

**VANADIUM 42**

*INIS: 1997-02-07; ETDE: 1978-07-05*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 vanadium isotopes

**VANADIUM 43**

*1993-01-13*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 vanadium isotopes

**VANADIUM 44**

*1986-04-02*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 vanadium isotopes

**VANADIUM 45**

*INIS: 1997-02-07; ETDE: 1980-04-14*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 vanadium isotopes

**VANADIUM 46**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 vanadium isotopes

**VANADIUM 47**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 vanadium isotopes

**VANADIUM 48**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 vanadium isotopes

**VANADIUM 48 TARGET**

*INIS: 1982-10-28; ETDE: 1979-06-06*  
 BT1 targets

**VANADIUM 49**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 vanadium isotopes

**VANADIUM 49 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**VANADIUM 50**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 vanadium isotopes  
 \*BT1 years living radioisotopes

**VANADIUM 50 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**VANADIUM 51**

\*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes  
 \*BT1 vanadium isotopes

**VANADIUM 51 REACTIONS**

*INIS: 1985-11-16; ETDE: 1985-12-11*  
 \*BT1 heavy ion reactions

**VANADIUM 51 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**VANADIUM 52**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 vanadium isotopes

**VANADIUM 53**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 vanadium isotopes

**VANADIUM 54**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 vanadium isotopes

**VANADIUM 55**

*INIS: 1978-07-03; ETDE: 1978-02-14*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 vanadium isotopes

**VANADIUM 56**

*1980-11-07*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 vanadium isotopes

**VANADIUM 57**

*INIS: 1986-08-19; ETDE: 1981-01-30*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 vanadium isotopes

**VANADIUM 58**

*INIS: 1986-08-19; ETDE: 1981-01-30*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 vanadium isotopes

**VANADIUM 59**

*INIS: 1986-08-19; ETDE: 1986-09-05*  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 vanadium isotopes

**VANADIUM 60**

*INIS: 1986-08-19; ETDE: 1986-09-05*  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 vanadium isotopes

**VANADIUM 61**

*2005-03-14*  
 \*BT1 beta-minus decay radioisotopes

- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 62**

2005-03-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 63**

2005-03-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 64**

2008-01-28

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 65**

2008-01-28

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM ADDITIONS**

1996-11-13

*Alloys containing not more than 1% V are listed here.*

- \*BT1 vanadium alloys
- NT1 alloy-ni54mo17cr16fe6w4
- NT2 hastelloy c
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni62cr16mo15fe3
- NT2 hastelloy s
- NT1 alloy-ni65mo28fe5
- NT2 hastelloy b
- NT1 alloy-ti90al6
- NT1 steel-cr12moniv
- NT1 steel-cr12mov
- NT2 alloy-ht-9
- NT1 steel-cr16ni13monbv
- NT1 steel-cr2mov
- NT1 steel-cr2nimov
- NT1 steel-cr9monbv
- NT1 steel-crmov
- NT1 steel-mnnimov
- NT1 steel-ni26cr15ti2movalb
- NT2 alloy-a-286
- NT1 steel-ni3crmo
- NT2 steel-astm-a543
- NT1 steel-ni3crmo

**VANADIUM ALLOYS**

1996-11-13

*Alloys containing more than 1% V.*

- UF alloy-co52fe35v13
- UF alloy-ehp-496
- UF steel-40k14g18f
- UF transage 129
- UF transage 134
- UF transage 175
- UF vikalloy 1
- UF vikalloy 2
- \*BT1 transition element alloys
- NT1 alloy-co52fe35v10
- NT1 alloy-ti90al6v4
- NT1 alloy-ti91al4mo3

- NT1 vanadium additions
- NT2 alloy-ni54mo17cr16fe6w4
- NT3 hastelloy c
- NT2 alloy-ni60co15cr10al6ti5mo3
- NT3 alloy-in-100
- NT2 alloy-ni62cr16mo15fe3
- NT3 hastelloy s
- NT2 alloy-ni65mo28fe5
- NT3 hastelloy b
- NT2 alloy-ti90al6
- NT2 steel-cr12moniv
- NT2 steel-cr12mov
- NT3 alloy-ht-9
- NT2 steel-cr16ni13monbv
- NT2 steel-cr2mov
- NT2 steel-cr2nimov
- NT2 steel-cr9monbv
- NT2 steel-crmov
- NT2 steel-mnnimov
- NT2 steel-ni26cr15ti2movalb
- NT3 alloy-a-286
- NT2 steel-ni3crmo
- NT3 steel-astm-a543
- NT2 steel-ni3crmo
- NT1 vanadium base alloys
- NT2 alloy-v87cr9fe3

**VANADIUM ARSENIDES**

1996-07-15

(From June 1996 to February 2008

VANADIUM COMPOUNDS + ARSENIDES

was used for this concept.)

- \*BT1 arsenides
- \*BT1 vanadium compounds

**VANADIUM BASE ALLOYS**

- \*BT1 vanadium alloys
- NT1 alloy-v87cr9fe3

**VANADIUM BORIDES**

- \*BT1 borides
- \*BT1 vanadium compounds

**VANADIUM BROMIDES**

- \*BT1 bromides
- \*BT1 vanadium compounds

**VANADIUM CARBIDES**

- \*BT1 carbides
- \*BT1 vanadium compounds

**VANADIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 vanadium compounds

**VANADIUM COMPLEXES**

- \*BT1 transition element complexes

**VANADIUM COMPOUNDS**

1997-06-19

- BT1 transition element compounds
- NT1 vanadates
- NT2 potassium vanadates
- NT2 uranium vanadates
- NT1 vanadium arsenides
- NT1 vanadium borides
- NT1 vanadium bromides
- NT1 vanadium carbides
- NT1 vanadium chlorides
- NT1 vanadium fluorides
- NT1 vanadium hydrides
- NT1 vanadium hydroxides
- NT1 vanadium iodides
- NT1 vanadium nitrates
- NT1 vanadium nitrides
- NT1 vanadium oxides
- NT1 vanadium phosphates
- NT1 vanadium phosphides
- NT1 vanadium selenides
- NT1 vanadium silicates
- NT1 vanadium silicides
- NT1 vanadium sulfates

- NT1 vanadium sulfides
- NT1 vanadium tellurides
- NT1 vanadium tungstates

**VANADIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 vanadium compounds

**VANADIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 vanadium compounds

**VANADIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 vanadium compounds

**VANADIUM IODIDES**

- \*BT1 iodides
- \*BT1 vanadium compounds

**VANADIUM IONS**

- \*BT1 ions

**VANADIUM ISOTOPES**

1999-07-16

BT1 isotopes

- NT1 vanadium 40
- NT1 vanadium 41
- NT1 vanadium 42
- NT1 vanadium 43
- NT1 vanadium 44
- NT1 vanadium 45
- NT1 vanadium 46
- NT1 vanadium 47
- NT1 vanadium 48
- NT1 vanadium 49
- NT1 vanadium 50
- NT1 vanadium 51
- NT1 vanadium 52
- NT1 vanadium 53
- NT1 vanadium 54
- NT1 vanadium 55
- NT1 vanadium 56
- NT1 vanadium 57
- NT1 vanadium 58
- NT1 vanadium 59
- NT1 vanadium 60
- NT1 vanadium 61
- NT1 vanadium 62
- NT1 vanadium 63
- NT1 vanadium 64
- NT1 vanadium 65

**vanadium minerals**

INIS: 2000-04-12; ETDE: 1975-10-28

*Use one of the more specific descriptors under MINERALS.*

(Prior to May 1982, this was a valid ETDE descriptor.)

USE minerals

**VANADIUM NITRATES**

INIS: 1976-10-29; ETDE: 1976-12-16

- \*BT1 nitrates
- \*BT1 vanadium compounds

**VANADIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 vanadium compounds

**VANADIUM ORES**

1976-02-11

BT1 ores

**VANADIUM OXIDES**

1996-07-18

- \*BT1 oxides
- \*BT1 vanadium compounds
- RT corvusite
- RT ferghanite
- RT melanovanadite
- RT oxide minerals
- RT pascoite

RT rauvite  
 RT sengierite  
 RT tyuyamunite  
 RT vanadates

**VANADIUM PHOSPHATES**

\*BT1 phosphates  
 \*BT1 vanadium compounds

**VANADIUM PHOSPHIDES**

INIS: 1980-11-07; ETDE: 1979-04-11

\*BT1 phosphides  
 \*BT1 vanadium compounds

**VANADIUM SELENIDES**

INIS: 1979-09-18; ETDE: 1977-11-09

\*BT1 selenides  
 \*BT1 vanadium compounds

**VANADIUM SILICATES**

\*BT1 silicates  
 \*BT1 vanadium compounds

**VANADIUM SILICIDES**

\*BT1 silicides  
 \*BT1 vanadium compounds

**VANADIUM SULFATES**

\*BT1 sulfates  
 \*BT1 vanadium compounds

**VANADIUM SULFIDES**

\*BT1 sulfides  
 \*BT1 vanadium compounds

**VANADIUM TELLURIDES**

INIS: 2000-04-12; ETDE: 1991-07-30

\*BT1 tellurides  
 \*BT1 vanadium compounds

**VANADIUM TUNGSTATES**

1996-07-15

(From June 1996 to February 2008

VANADIUM COMPOUNDS +  
 TUNGSTATES was used for this concept.)

\*BT1 tungstates  
 \*BT1 vanadium compounds

**VANDELLOS-2 REACTOR**

INIS: 1995-02-15; ETDE: 1986-04-29

*Vandellos, Tarragona, Spain.*

\*BT1 pwr type reactors

**VANDELLOS REACTOR**

*Vandellos, Tarragona, Spain.*

\*BT1 carbon dioxide cooled reactors  
 \*BT1 gcr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**VANES**

RT fins  
 RT reactor components

**VANPOOLING**

INIS: 2000-04-12; ETDE: 1977-06-21

SF *ridesharing*  
 BT1 carpooling  
 RT energy conservation  
 RT land transport  
 RT roads  
 RT transportation systems  
 RT vans

**VANS**

INIS: 2000-04-12; ETDE: 1979-12-17

BT1 vehicles  
 RT automobiles  
 RT occupants  
 RT taxicabs  
 RT vanpooling

**vanstar 7**

1997-01-28

(Prior to March 1997 this was a valid ETDE descriptor.)

USE alloy-v87cr9fe3

**VAPOR COMPRESSION****REFRIGERATION CYCLE**

INIS: 2000-04-12; ETDE: 1978-05-03

BT1 thermodynamic cycles  
 RT air conditioners  
 RT cooling systems  
 RT gas compressors  
 RT refrigerating machinery  
 RT refrigeration  
 RT refrigerators

**VAPOR CONDENSATION**

UF *condensation (vapor)*  
 NT1 dropwise condensation  
 NT1 film condensation  
 RT condensates  
 RT condensation chambers  
 RT condensation nuclei  
 RT cooling  
 RT dew point  
 RT fog  
 RT heat transfer  
 RT liquefaction  
 RT subcooling  
 RT vapor condensers

**VAPOR CONDENSERS**

UF *condensers (vapor)*  
 UF *liquefiers*  
 SF *condensers*  
 NT1 cold traps  
 NT1 steam condensers  
 NT2 ice condensers  
 NT2 isolation condensers  
 RT condensing boilers  
 RT cooling towers  
 RT counterflow systems  
 RT crossflow systems  
 RT evaporators  
 RT heat sinks  
 RT vapor condensation  
 RT vapor separators

**VAPOR DEPOSITED COATINGS**

BT1 coatings  
 RT chemical vapor deposition  
 RT physical vapor deposition  
 RT sputtering  
 RT vacuum coating  
 RT vacuum evaporation  
 RT vapor plating

**VAPOR-DOMINATED SYSTEMS**

INIS: 1997-06-19; ETDE: 1976-03-25

(Prior to May 1976 DRY-STEAM SYSTEMS was used for this concept in ETDE.)

UF *dry-steam systems*  
 \*BT1 hydrothermal systems  
 RT geysers geothermal field  
 RT larderello geothermal field  
 RT matsukawa geothermal field  
 RT travale geothermal field

**VAPOR GENERATORS**

UF *generators (vapor)*  
 BT1 boilers  
 NT1 steam generators  
 RT rankine cycle engines  
 RT reactor cooling systems  
 RT vapors

**vapor incinerators**

INIS: 2000-04-12; ETDE: 1975-11-11

USE afterburners

**VAPOR JET EJECTORS**

NT1 steam jet ejectors  
 RT mhd generators

**VAPOR PHASE EPITAXY**

INIS: 1992-08-12; ETDE: 1982-10-20

*Epitaxial growth resulting from the pyrolysis of or chemical reaction between vapor phase components at the substrate surface.*

\*BT1 epitaxy  
 RT chemical vapor deposition  
 RT crystal growth

**VAPOR PLATING**

\*BT1 plating  
 RT cathode sputtering  
 RT chemical vapor deposition  
 RT physical vapor deposition  
 RT vacuum evaporation  
 RT vapor deposited coatings

**VAPOR PRESSURE**

UF *pressure (vapor)*  
 \*BT1 thermodynamic properties  
 RT knudsen flow

**VAPOR SEPARATORS**

UF *moisture separators*  
 UF *separators (vapor)*  
 \*BT1 separation equipment  
 NT1 steam separators  
 RT mhd generators  
 RT vapor condensers

**vaporization**

USE evaporation

**VAPORIZATION HEAT**

UF *heat of vaporization*  
 UF *latent heat of vaporization*  
 \*BT1 transition heat  
 RT evaporation  
 RT latent heat storage

**VAPORS**

\*BT1 gases  
 NT1 water vapor  
 RT distillates  
 RT evaporation  
 RT liquids  
 RT vapor generators  
 RT void fraction

**var compensators**

INIS: 2000-04-12; ETDE: 1983-03-23

USE var control systems

**VAR CONTROL SYSTEMS**

INIS: 2000-04-12; ETDE: 1983-03-23

UF *var compensators*  
 UF *volt-ampere reactive control systems*  
 BT1 control systems  
 RT electric power  
 RT electrical transients  
 RT overvoltage  
 RT power factor  
 RT power systems  
 RT power transmission  
 RT reliability  
 RT stabilization  
 RT surges

**varactors**

USE variable capacitance diodes

**VARENNES TOKAMAK**

1983-09-06

UF *tokamak de varennnes*

\*BT1 tokamak devices

**variability (biological)**

USE biological variability



**variability (genetic)**

USE genetic variability

**VARIABLE CAPACITANCE DIODES**

UF varactors

\*BT1 semiconductor diodes

**VARIABLE ENERGY CYCLOTRONS**

1999-05-19

\*BT1 cyclotrons

NT1 calcutta cyclotron

NT1 chandigarh cyclotron

**variable moment of inertia model**

USE vmi model

**VARIABLE STARS**

BT1 stars

NT1 eruptive variable stars

NT2 novae

NT2 supernovae

NT2 t tauri stars

NT1 pulsating variable stars

NT2 cepheids

RT magnetic stars

RT starspots

**varian computers**

INIS: 2000-04-12; ETDE: 1975-11-28

(Prior to March 1997 this was a valid ETDE descriptor.)

USE computers

**VARIATIONAL METHODS**

BT1 calculation methods

NT1 density functional method

NT1 hsk procedure

NT1 resonating-group method

NT1 schwinger variational method

RT functionals

RT mathematics

RT neutron transport theory

RT optimization

RT ritz method

**VARIATIONS**

NT1 annual variations

NT1 daily variations

NT1 fluctuations

NT2 landau fluctuations

NT1 geographical variations

NT2 latitude effect

NT1 hourly variations

NT1 monthly variations

NT1 nocturnal variations

NT1 periodicity

NT1 seasonal variations

RT degrees of freedom

RT disturbances

RT modifications

RT modulation

RT oscillations

RT pulsations

RT reactor noise

RT temperature noise

RT transients

**varistors**

Non-linear semiconductor resistors.

USE semiconductor resistors

**VARNISHES**

BT1 coatings

RT dielectric materials

**VASCULAR DISEASES**

BT1 diseases

NT1 arteriosclerosis

NT1 hypertension

NT1 ischemia

NT1 nephrosclerosis

NT1 telangiectasis

NT1 thrombosis

RT blood vessels

RT cardiovascular diseases

RT emboli

RT vasoconstrictors

RT vasodilators

**VASOCONSTRICTION**

RT blood circulation

RT blood vessels

RT capillaries

RT cardiovascular agents

RT sympathomimetics

RT vasoconstrictors

RT vasodilation

**VASOCONSTRICTORS**

INIS: 1984-05-24; ETDE: 1981-04-20

\*BT1 cardiovascular agents

NT1 angiotensin

NT1 ephedrine

RT blood vessels

RT endothelins

RT vascular diseases

RT vasoconstriction

**vasodilatation**

INIS: 1990-12-07; ETDE: 2002-05-24

(Prior to December 1990, this was a valid descriptor.)

USE vasodilation

**VASODILATION**

INIS: 1990-12-07; ETDE: 1977-10-20

UF vasodilatation

RT blood circulation

RT blood vessels

RT capillaries

RT cardiovascular agents

RT sympathomimetics

RT vasoconstriction

RT vasodilators

**VASODILATORS**

INIS: 1984-05-24; ETDE: 1981-04-20

\*BT1 cardiovascular agents

NT1 diprydamole

NT1 theobromine

NT1 theophylline

RT blood vessels

RT vascular diseases

RT vasodilation

**VASOPRESSIN**

UF antidiuretic hormone

\*BT1 pituitary hormones

RT tubules

**vatican city state**

2008-03-28

USE holy see

**vavilov-cherenkov radiation**

USE cherenkov radiation

**vax computers**

INIS: 1980-09-12; ETDE: 1980-03-29

USE dec computers

**VBWR REACTOR**

General Electric Co., Sunol, California, USA.

Decommissioned in 1963.

UF vallecitos vbwr reactor

\*BT1 bwr type reactors

**vcocl**

ETDE: 2002-05-24

USE vcoclnd

**VCOCLND**

Vienna Convention on Civil Liability for Nuclear Damage.

UF damage, vienna convention on liability

UF liability conv nuclear damage, vienna

UF nuclear damage, vienna civil liability convention

UF vcocl

UF vienna convention on civil liability

\*BT1 international agreements

RT civil liability

RT nuclear damage

RT nuclear liability

**vector-axial vector theory**

USE v-a theory

**VECTOR CURRENTS**

\*BT1 algebraic currents

RT axial-vector currents

RT cvc theory

RT pcvc theory

RT v-a theory

**VECTOR DOMINANCE MODEL**

\*BT1 particle models

RT vector mesons

**VECTOR FIELDS**

RT quantum chromodynamics

RT quantum field theory

**VECTOR MESONS**

1995-08-07

Mesons with spin and parity 1-.

SF epsilon resonances

\*BT1 mesons

NT1 b\*-5325 mesons

NT1 d\*-2010 mesons

NT1 j psi-3097 mesons

NT1 k\*-1410 mesons

NT1 k\*-1680 mesons

NT1 k\*-892 mesons

NT1 omega-1420 mesons

NT1 omega-1600 mesons

NT1 omega-782 mesons

NT1 phi-1020 mesons

NT1 phi-1680 mesons

NT1 psi-3685 mesons

NT1 psi-3770 mesons

NT1 psi-4040 mesons

NT1 psi-4160 mesons

NT1 psi-4415 mesons

NT1 rho-1450 mesons

NT1 rho-1700 mesons

NT1 rho-2150 mesons

NT1 rho-770 mesons

NT1 upsilon-10023 mesons

NT1 upsilon-10355 mesons

NT1 upsilon-10580 mesons

NT1 upsilon-10860 mesons

NT1 upsilon-11020 mesons

NT1 upsilon-9460 mesons

RT gluon model

RT gluons

RT higgs model

RT meson nonets

RT vector dominance model

**VECTOR PROCESSING**

INIS: 1997-06-17; ETDE: 1983-11-09

BT1 programming

RT algorithms

RT cedar computers

RT computers

RT parallel processing

RT supercomputers

**VECTORS**

BT1 tensors

**NT1** isovectors  
*RT* banach space  
*RT* eigenvectors  
*RT* helmholtz theorem  
*RT* laplacian  
*RT* mathematics  
*RT* poynting theorem  
*RT* spinors  
*RT* tensor forces

**VEGA SPACE PROBES**

*INIS: 1985-04-22; ETDE: 1985-05-07*

\*BT1 space vehicles

**VEGARD LAW**

*RT* alloy systems  
*RT* crystal lattices

**VEGETABLE OILS**

*INIS: 1996-10-22; ETDE: 1983-03-07*

(Prior to March 1983 this concept was indexed to PLANTS and OILS in ETDE.)

*UF* croton oil  
*UF* tiglium oil

\*BT1 oils

**NT1** castor oil  
**NT1** corn oil  
**NT1** cottonseed oil  
**NT1** linseed oil  
**NT1** olive oil  
**NT1** palm oil  
**NT1** peanut oil  
**NT1** sesame oil  
**NT1** soybean oil  
**NT1** sunflower oil  
*RT* essential oils

**VEGETABLES**

*Edible parts of plants only.*

**BT1** food  
**BT1** plants  
**NT1** beans  
 NT2 mungbeans  
**NT1** beets  
 NT2 sugar beets  
**NT1** brassica  
 NT2 kale  
**NT1** carrots  
**NT1** cucumbers  
**NT1** garlic  
**NT1** lettuce  
**NT1** onions  
 NT2 allium cepa  
**NT1** peas  
**NT1** peppers  
**NT1** potatoes  
**NT1** radishes  
**NT1** soybeans  
**NT1** spinach  
**NT1** yams  
*RT* crops

**vegetation**

USE plants

**VEGETATIVE PROPAGATION**

*1999-05-05*

**BT1** cloning  
*RT* adventitious bud technique  
*RT* plants  
*RT* reproduction

**VEHICLES**

*1995-09-08*

(From February 1982 till March 1997

TRAILERS was a valid ETDE descriptor.)

*UF* motor vehicles  
*SF* trailers

**NT1** air cushion vehicles  
**NT1** automobiles  
**NT1** bicycles

**NT1** buses  
**NT1** electric-powered vehicles  
 NT2 hybrid electric-powered vehicles  
 NT2 roadway-powered electric vehicles  
**NT1** flywheel-powered vehicles  
**NT1** low-emission vehicles  
**NT1** mine cars  
**NT1** motorcycles  
**NT1** railroad cars  
**NT1** recreational vehicles  
**NT1** space vehicles  
 NT2 luna space probes  
 NT2 mariner space probes  
 NT2 mars space probes  
 NT2 mir orbital station  
 NT2 pioneer space probes  
 NT2 reentry vehicles  
 NT2 saljut orbital stations  
 NT2 space shuttles  
 NT2 vega space probes  
 NT2 venera space probes  
 NT2 viking space probes  
 NT2 voyager space probes

**NT1** taxicabs  
**NT1** trackless vehicles  
**NT1** trains  
 NT2 levitated trains  
 NT2 locomotives  
**NT1** trucks  
**NT1** vans  
*RT* earthmoving equipment  
*RT* mechanical transmissions  
*RT* mobile homes  
*RT* motor vehicle accidents  
*RT* motor vehicle operators  
*RT* occupants  
*RT* postal services  
*RT* propulsion systems  
*RT* rail transport  
*RT* road tests  
*RT* road transport  
*RT* tires  
*RT* traffic control  
*RT* transport  
*RT* wheels

**VEINS**

\*BT1 blood vessels  
**NT1** portal system  
*RT* intravenous injection  
*RT* lymph vessels

**VELA PROJECT**

*1996-07-23*

(Prior to February 1996 COWBOY EVENT

and LOLLIPOP EVENT were valid ETDE

descriptors; prior to March 1997 SHOAL

EVENT was a valid ETDE descriptor.)

*UF* cowboy event  
*UF* lollipop event  
*UF* project vela  
*UF* shoal event

**NT1** gnome event  
**NT1** long shot event  
**NT1** salmon event  
**NT1** sterling event  
*RT* nuclear explosions  
*RT* seismic detection  
*RT* seismology  
*RT* underground explosions

**VELOCIMETERS**

*INIS: 1978-11-24; ETDE: 1975-08-19*

*UF* speed indicators  
**BT1** measuring instruments  
*RT* accelerometers  
*RT* velocity

**VELOCITY**

*UF* speed

**NT1** angular velocity  
**NT1** critical velocity  
**NT1** mach number  
**NT1** phase velocity  
**NT1** radial velocity  
**NT1** slip velocity  
*RT* acceleration  
*RT* flow rate  
*RT* kinetic energy  
*RT* linear momentum  
*RT* motion  
*RT* velocimeters

**velocity-pumps reaction turbines**

*INIS: 2000-04-12; ETDE: 1979-07-24*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE turbines

**VENERA SPACE PROBES**

*INIS: 1978-09-28; ETDE: 1979-06-21*

\*BT1 space vehicles

*RT* space flight

**VENEZIANO MODEL**

\*BT1 particle models

**NT1** dual resonance model

*RT* scattering amplitudes

**VENEZUELA**

**BT1** developing countries

\*BT1 south america

*RT* andes

*RT* opec

**VENOMS**

*RT* toxicity

*RT* toxins

**VENTILATION**

*UF* natural ventilation

*UF* ventilation ducts

**NT1** displacement ventilation

*RT* aerosols

*RT* air

*RT* air cleaning

*RT* air cleaning systems

*RT* air conditioning

*RT* air flow

*RT* airtightness

*RT* ceiling fans

*RT* exhaust systems

*RT* filters

*RT* fume hoods

*RT* gaseous wastes

*RT* stacks

*RT* ventilation barriers

*RT* ventilation systems

**VENTILATION BARRIERS**

*INIS: 1996-04-18; ETDE: 1978-05-03*

*Physical barriers used in mines to prevent harmful gases or smoke from mixing with air in the area being worked by miners.*

*UF* stoppings (ventilation barriers)

*SF* barriers

**BT1** engineered safety systems

*RT* ventilation

**ventilation ducts**

*INIS: 2000-04-12; ETDE: 1977-06-24*

USE ducts

USE ventilation

**VENTILATION SYSTEMS**

*INIS: 1992-04-13; ETDE: 1978-01-23*

*RT* air cleaning systems

*RT* air conditioning

*RT* air flow

*RT* displacement ventilation

*RT* space hvac systems

*RT* ventilation

**VENTS**

RT openings

**VENTURI TUBES**

RT flowmeters

**VENUS PLANET**

BT1 planets

**VENUS REACTOR**

UF *vulcan experiment nuclear study*

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**VEP-1**

BT1 storage rings

**VEPP-2**

BT1 storage rings

**VEPP-3**

BT1 storage rings

**VEPP-4**

BT1 storage rings

**VERA REACTOR**

UK Ministry of Defence, Berkshire, United Kingdom.

UF *versatile experimental reactor assembly*

\*BT1 fast reactors

\*BT1 research reactors

\*BT1 zero power reactors

RT enriched uranium reactors

RT plutonium reactors

**VERIFICATION**

INIS: 1995-04-09; ETDE: 1983-08-25

*Process or result of confirming the accuracy of reported information, data, etc.*

UF *data validation*

UF *information validation*

RT arms control

RT audits

RT inspection

RT on-site inspection

RT treaties

RT validation

**VERMICULITE**

\*BT1 inorganic ion exchangers

\*BT1 mica

RT aluminium silicates

RT iron silicates

RT magnesium silicates

**VERMONT**

1997-06-17

\*BT1 usa

RT connecticut river

RT connecticut river basin

**VERMONT YANKEE REACTOR**

Entergy Nuclear Operations, Inc., Vernon, Vermont, USA.

UF *yankee vermont reactor*

\*BT1 bwr type reactors

**VERNACULAR ARCHITECTURE**

2005-06-01

*Approach based on traditional methods which are especially suitable for the locality.*

BT1 architecture

RT building codes

RT construction

RT energy conservation

RT site selection

**VERNALIZATION**

RT cereals

RT crops

RT seasons

RT seeds

RT sprouting

RT temperature dependence

**VERNEUIL METHOD**

2000-04-12

*Method of single-crystal growth in which powder is dropped through an oxy-hydrogen flame, falling molten on crystal seed.*

BT1 crystal growth methods

BT1 flames

BT1 crystal growth

RT monocrystals

**vernier chronotrons**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE chronotrons

**VERPLANCK-1 REACTOR**

*Consolidated Edison Co., Verplanck, New York, USA. Canceled in 1972 before construction began.*

\*BT1 bwr type reactors

**VERPLANCK-2 REACTOR**

*Consolidated Edison Co., Verplanck, New York, USA. Canceled in 1972 before construction began.*

\*BT1 bwr type reactors

**versatile experimental reactor**

*assembly*

1993-11-10

USE vera reactor

**versatile intermediate pulsed**

*experimental reactor*

1993-11-10

USE viper reactor

**VERSATOR TOKAMAK**

INIS: 1986-03-04; ETDE: 1985-08-08

*A tokamak confinement experiment at Massachusetts Institute of Technology used primarily for studies on rf heating and current drive using lower hybrid waves.*

\*BT1 tokamak devices

**versene**

USE edta

**versuchsatomkraftwerk kahl reactor**

1993-11-10

USE vak reactor

**VERTEBRAE**

UF *disks (intervertebral)*

UF *intervertebral disks*

UF *spine*

\*BT1 skeleton

RT spinal cord

RT spondylitis

**VERTEBRATES**

UF *chordates*

BT1 animals

NT1 amphibians

NT2 frogs

NT2 salamanders

NT3 triturus

NT2 toads

NT1 birds

NT2 fowl

NT3 chickens

NT3 ducks

NT3 geese

NT2 pigeons

NT1 fishes

NT2 anadromous fishes

NT3 salmon

NT3 striped bass

NT2 codfish

NT2 eel

NT2 fathead minnow

NT2 goldfish

NT2 plaice

NT2 trout

NT2 tuna

NT1 mammals

NT2 bats

NT2 bears

NT2 burros

NT2 cats

NT2 cetaceans

NT2 coyotes

NT2 dogs

NT3 beagles

NT2 foxes

NT2 horses

NT2 marsupials

NT2 otters

NT2 pinnipeds

NT2 primates

NT3 apes

NT3 man

NT4 children

NT5 infants

NT4 elderly people

NT4 men

NT4 women

NT3 monkeys

NT4 baboons

NT4 macacus

NT2 rabbits

NT2 rodents

NT3 gerbils

NT3 guinea pigs

NT3 hamsters

NT3 mice

NT4 transgenic mice

NT3 prairie dogs

NT3 rats

NT3 squirrels

NT3 voles

NT2 ruminants

NT3 buffalo

NT3 camels

NT3 cattle

NT4 calves

NT4 cows

NT3 deer

NT3 goats

NT3 llamas

NT3 sheep

NT2 shrews

NT2 swine

NT3 miniature swine

NT2 wolves

NT1 reptiles

NT2 alligators

NT2 lizards

NT2 snakes

NT2 turtles

**VERTEX FUNCTIONS**

BT1 functions

RT form factors

RT quantum field theory

**VERTICAL AXIS TURBINES**

INIS: 1992-09-24; ETDE: 1976-02-19

\*BT1 wind turbines

NT1 giromill turbines

NT1 tornado turbines

RT darrius rotors

RT madaras rotors  
RT savonius rotors

**VERTICAL DIVESTITURE**

INIS: 2000-04-19; ETDE: 1977-09-19

Required breaking up of (energy) companies into production, refining, and marketing components.

RT competition  
RT petroleum industry  
RT regulations

**VERTICAL INTEGRATION**

INIS: 1999-09-13; ETDE: 1978-04-27

RT competition  
RT petroleum industry

**very high frequency**

USE mhz range

**very high frequency radiation**

USE mhz range  
USE radiowave radiation

**very high pressure**

(Prior to November 2003 this was a valid descriptor.)

SEE pressure range giga pa  
SEE pressure range mega pa 100-1000

**very high temperature**

1992-01-23

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range 1000-4000 k

**very low pressure**

SEE pressure range milli pa  
SEE pressure range pa

**very low temperature**

1992-01-23

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range 0013-0065 k

**vessels**

USE containers

**vessels (chemical reactions)**

INIS: 1985-12-10; ETDE: 1976-05-17

USE chemical reactors

**vessels (pressure)**

USE pressure vessels

**vessels (reactor)**

USE reactor vessels

**VESTIBULAR APPARATUS**

UF labyrinth

\*BT1 sense organs  
RT auditory organs

**VESUVIANITE**

INIS: 2000-04-12; ETDE: 1981-04-17

\*BT1 uranium minerals

**vetch**

USE vicia

**veterans administration hospital triga reactor**

1993-11-10

USE triga-veterans reactor

**VETERINARY MEDICINE**

BT1 medicine  
RT animals

**VG-400 REACTOR**

INIS: 1989-04-20; ETDE: 1989-05-11

\*BT1 enriched uranium reactors

\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 pebble bed reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**vgl devices**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE magnetic mirrors

**VGR-50 REACTOR**

INIS: 1989-04-20; ETDE: 1989-05-11

\*BT1 enriched uranium reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 pebble bed reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**vhf**

USE mhz range

**vhf radiation**

USE mhz range  
USE radiowave radiation

**VHTR REACTOR**

INIS: 1978-01-16; ETDE: 1978-03-03

UF experimental very high temperature gas cooled reactor

UF multipurpose vht reactor

\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**VIABILITY**

ETDE: 1975-09-11

RT biological regeneration  
RT growth  
RT life cycle  
RT reproduction

**VIBRATING SAMPLE MAGNETOMETERS**

\*BT1 magnetometers

**vibration modes**

USE oscillation modes

**vibrational band**

USE vibrational states

**VIBRATIONAL STATES**

UF collective states (vibrational)

UF vibrational band

\*BT1 excited states  
RT infrared spectra  
RT lattice vibrations  
RT rotation-vibration model  
RT rydberg-klein-rees method

**vibrations (lattice)**

USE lattice vibrations

**vibrations (mechanical)**

USE mechanical vibrations

**VIBRON MODEL**

INIS: 1992-08-06; ETDE: 1992-09-10

\*BT1 nuclear models  
RT cluster model

**VICIA**

UF vetch  
\*BT1 leguminosae

**VICKERS HARDNESS**

RT hardness

**vicksi**

INIS: 2000-04-12; ETDE: 1975-11-11

(Prior to July 1985, this was a valid ETDE descriptor.)

USE vicksi accelerator

**VICKSI ACCELERATOR**

INIS: 1976-02-11; ETDE: 1976-03-25

Van de Graaff Isochronous Cyclotron Kombination fuer Schwere Ionen at Hahn-Meitner-Institut, Berlin.

UF hahn-meitner vicksi accelerator

UF vicksi

\*BT1 heavy ion accelerators  
RT isochronous cyclotrons  
RT van de graaff accelerators

**VICTIMS COMPENSATION**

INIS: 1976-12-08; ETDE: 1978-03-08

For victims not covered by workmens compensation.

RT accidents  
RT exceptional natural disaster  
RT financial security  
RT insurance  
RT liabilities  
RT workmens compensation

**VICTORIA**

\*BT1 australia

**VIDAL-1 REACTOR**

INIS: 1976-02-11; ETDE: 1975-10-01

Southern California Edison Co., Vidal, California, USA. Canceled in 1974 before construction began.

\*BT1 enriched uranium reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**VIDAL-2 REACTOR**

INIS: 1976-02-11; ETDE: 1975-10-01

Southern California Edison Co., Vidal, California, USA. Canceled in 1974 before construction began.

\*BT1 enriched uranium reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**VIDEO TAPES**

INIS: 1985-03-19; ETDE: 1981-06-13

\*BT1 magnetic tapes  
RT digitizers  
RT image processing  
RT images  
RT remote viewing equipment  
RT television

**VIDICONS**

\*BT1 camera tubes  
RT television cameras

**vienna convention on civil liability**

1993-11-10

USE vcoclnd

**vienna triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-05-24

USE triga-2-vienna reactor

**VIET NAM**

INIS: 1977-10-17; ETDE: 1978-03-08

BT1 asia  
BT1 developing countries  
RT centrally planned economies

**VIETNAMESE ORGANIZATIONS**

1993-08-06

BT1 national organizations

**vietnamese triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-05-24

USE triga-2-dalat reactor

**vietnamese triga-mk-ii reactor**

2000-04-12

USE triga-2-dalat reactor

**VIGNA**

INIS: 1992-05-05; ETDE: 1993-01-20

UF cowpea plants

UF mungbean plants

\*BT1 leguminosae

RT mungbeans

**vikalloy 1**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE cobalt base alloys

USE iron alloys

USE vanadium alloys

**vikalloy 2**

INIS: 1996-07-16; ETDE: 1978-12-20

(Until July 1996 this was a valid descriptor.)

USE cobalt base alloys

USE iron alloys

USE vanadium alloys

**VIKING SPACE PROBES**

INIS: 1977-06-13; ETDE: 1976-09-28

\*BT1 space vehicles

**villigen cyclotron**

USE sin cyclotron

**VINBLASTINE**

\*BT1 alkaloids

\*BT1 antimetabolic drugs

\*BT1 indoles

RT leukemia

**vinca r-a reactor yugoslavia**

USE r-a reactor

**vinca r-b reactor yugoslavia**

USE r-b reactor

**vincristine sulfate**

INIS: 2002-03-17; ETDE: 2000-11-24

USE oncovin

**vinoflex**

USE polyvinyls

**VINTORSATRON**

INIS: 1977-01-26; ETDE: 1977-04-13

\*BT1 torsatron stellarators

**VINTOTRON DEVICES**

2000-04-12

BT1 thermonuclear devices

**VINYL ACETATE**

2005-02-22

\*BT1 acetic acid esters

RT vinyl monomers

**VINYL CHLORIDE**

INIS: 1992-03-17; ETDE: 1984-05-08

UF monochloroethylene

\*BT1 chlorinated aliphatic hydrocarbons

**vinyl cyanide**

USE acrylonitrile

**VINYL MONOMERS**

BT1 monomers

RT acrolein

RT acrylamide

RT acrylates

RT acrylic acid

RT acrylic acid esters

RT acrylonitrile

RT methacrylates

RT methacrylic acid

RT methacrylic acid esters

RT styrene

RT vinyl acetate

**VINYL RADICALS**

\*BT1 alkyl radicals

**vinylbenzene**

USE styrene

**VINYLDIENE RADICALS**

BT1 radicals

**violanthrone**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE condensed aromatics

USE hydrocarbons

USE ketones

**VIOLATIONS**

INIS: 1993-06-04; ETDE: 1979-11-23

*Failure to comply with laws or regulations; not for violations of invariance principles.*

UF notice of probable violation

NT1 security violations

RT administrative procedures

RT compliance

RT enforcement

RT laws

RT regulations

**VIPER REACTOR**

UK Ministry of Defence, Berkshire, United Kingdom.

UF versatile intermediate pulsed experimental reactor

\*BT1 enriched uranium reactors

\*BT1 fast reactors

\*BT1 organic moderated reactors

\*BT1 pulsed reactors

\*BT1 research reactors

\*BT1 test reactors

**VIRAL DISEASES**

INIS: 1982-12-08; ETDE: 1981-01-12

UF rinderpest

\*BT1 infectious diseases

NT1 aids

NT1 herpes simplex

NT1 herpes zoster

NT1 infectious hepatitis

NT1 influenza

NT1 measles

NT1 newcastle disease

NT1 poliomyelitis

NT1 rabies

RT cell transformations

RT encephalitis

RT host

RT viruses

**virgil c summer-1 reactor**

USE summer-1 reactor

**VIRGIN ISLANDS**

INIS: 1992-06-04; ETDE: 1979-07-24

\*BT1 lesser antilles

\*BT1 usa

**VIRGINIA**

\*BT1 usa

RT chesapeake bay

RT james river

RT potomac river

RT potomac river basin

RT us east coast

**virginia polytechnic institute training reactor**

1993-11-10

USE vpi-utr-10 reactor

**virginia university reactor**

INIS: 1984-06-21; ETDE: 2002-05-24

USE uvar reactor

**VIRIAL EQUATION**

1999-07-07

*In thermodynamics only.*

BT1 equations

RT equations of state

RT gases

RT thermodynamics

RT van der waals forces

**VIRIAL THEOREM***In mechanics only.*

RT kinetic energy

RT mechanics

RT particles

RT statistics

**VIRTUAL HEIGHT**

2000-04-12

*Apparent height of an ionized atmospheric layer determined from time interval between the transmitted signal and the ionospheric echo at vertical incident.*

\*BT1 height

RT ionosphere

RT scale height

**virtual mass effect**

INIS: 1976-03-17; ETDE: 1976-08-24

USE hydrodynamic mass effect

**VIRTUAL PARTICLES**

BT1 elementary particles

RT deep inelastic scattering

**VIRTUAL STATES**

BT1 energy levels

**VIRULENCE**

RT infectious diseases

RT microorganisms

**VIRUSES**

BT1 microorganisms

BT1 parasites

NT1 aids virus

NT1 bacteriophages

NT1 influenza viruses

NT1 measles virus

NT1 oncogenic viruses

NT2 adenovirus

NT2 leukemia viruses

NT2 polyoma virus

NT1 polio virus

NT1 simian virus

NT1 tobacco mosaic virus

NT1 vaccinia virus

RT herpes simplex

RT herpes zoster

RT inoculation

RT interferon

RT mutagens

RT newcastle disease

RT particles

RT plaque formation

RT rabies

RT vaccines

RT viral diseases

**VISCOSE**

- \*BT1 polysaccharides
- \*BT1 xanthates

**VISCOSIMETERS**

- BT1 measuring instruments

**VISCOSITY**

- UF heavy oils
- RT fluid flow
- RT grashof number
- RT hartmann number
- RT internal friction
- RT nusselt number
- RT rheology
- RT superfluidity
- RT thixotropy
- RT viscous flow

**VISCOUS FLOW**

- BT1 fluid flow
- NT1 couette flow
- RT laminar flow
- RT navier-stokes equations
- RT prandtl number
- RT reynolds number
- RT stokes law
- RT turbulent flow
- RT viscosity

**VISIBILITY**

INIS: 1986-05-23; ETDE: 1978-02-14

- RT fog
- RT luminosity
- RT opacity
- RT optical properties
- RT pattern recognition
- RT smog
- RT smokes
- RT visible radiation

**VISIBLE RADIATION**

- UF light
- UF photomagnetic effect
- \*BT1 electromagnetic radiation
- RT fresnel coefficient
- RT kerr effect
- RT laser radiation
- RT light scattering
- RT light sources
- RT lighting requirements
- RT lighting systems
- RT monochromatic radiation
- RT opacity
- RT photon beams
- RT photoperiod
- RT photoreactivation
- RT raman effect
- RT reflectivity
- RT schlieren method
- RT visibility
- RT visible spectra
- RT voigt effect

**VISIBLE SPECTRA**

INIS: 1976-07-30; ETDE: 1976-11-01

- BT1 spectra
- RT visible radiation

**VISION**

- RT eyes

**visitor centers**

INIS: 2000-04-12; ETDE: 1981-01-09

- USE public buildings

**visual purple**

INIS: 1986-03-04; ETDE: 2002-05-24

- USE rhodopsin

**VITALLIUM**

2000-04-12

- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 molybdenum alloys

**VITAMIN A**

- UF axerophthol
- UF retinol
- BT1 vitamins
- RT carotenoids
- RT retinoic acid

**vitamin b-1**

- USE thiamine

**VITAMIN B-12**

- UF cyanocobalamin
- \*BT1 hematinics
- \*BT1 vitamin b group
- RT anemias
- RT intrinsic factor

**vitamin b-2**

- USE riboflavin

**vitamin b-5**

- USE pantothenic acid

**vitamin b-6**

- USE pyridoxine

**VITAMIN B GROUP**

- BT1 vitamins
- NT1 biotin
- NT1 carnitine
- NT1 folic acid
- NT1 nicotinamide
- NT1 nicotinic acid
- NT1 pantothenic acid
- NT1 pyridoxine
- NT1 riboflavin
- NT1 thiamine
- NT1 vitamin b-12
- RT adenines
- RT citrovorum factor
- RT coenzymes
- RT lipotropic factors
- RT paba
- RT pyridoxal

**vitamin b-t**

- USE carnitine

**vitamin c**

- USE ascorbic acid

**VITAMIN D**

- BT1 vitamins
- NT1 cholecalciferol
- NT1 ergocalciferol
- RT rickets

**vitamin d-2**

- USE ergocalciferol

**vitamin d-3**

- USE cholecalciferol

**VITAMIN E**

- UF tocopherols
- BT1 vitamins

**vitamin h**

- USE biotin

**vitamin h-1**

- USE paba

**VITAMIN K**

- \*BT1 quinones
- BT1 vitamins
- RT anticoagulants

- RT blood coagulation factors

- RT ubiquinone

**vitamin p**

- USE bioflavonoids

**vitamin pp**

- USE nicotinamide

**VITAMINS**

- NT1 ascorbic acid
- NT1 bioflavonoids
- NT1 vitamin a
- NT1 vitamin b group
- NT2 biotin
- NT2 carnitine
- NT2 folic acid
- NT2 nicotinamide
- NT2 nicotinic acid
- NT2 pantothenic acid
- NT2 pyridoxine
- NT2 riboflavin
- NT2 thiamine
- NT2 vitamin b-12
- NT1 vitamin d
- NT2 cholecalciferol
- NT2 ergocalciferol
- NT1 vitamin e
- NT1 vitamin k
- RT biochemistry
- RT carotenoids
- RT diet
- RT drugs
- RT food
- RT food additives
- RT metabolism

**VITON**

- \*BT1 rubbers

**VITRIFICATION**

- SF immobilization (wastes)
- RT ceramic melters
- RT glass
- RT harvest process
- RT metallic glasses
- RT pamela plant
- RT radioactive waste processing
- RT solidification
- RT waste processing

**VITRINITE**

INIS: 2000-04-12; ETDE: 1979-09-27

- BT1 macerals

**VIVITRON TANDEM****ACCELERATOR**

INIS: 1990-12-15; ETDE: 1991-08-20

Nuclear Research Center, Strasbourg, France.

- \*BT1 tandem electrostatic accelerators
- \*BT1 van de graaff accelerators

**VK-50 REACTOR**

Dimitrovgrad, Russian Federation.

UF ulyanovsk reactor vk-50

- \*BT1 bwr type reactors

**vlasov equation**

- USE boltzmann-vlasov equation

**vlasov instability**

ETDE: 2002-05-24

- USE boltzmann-vlasov equation

**vlasov-maxwell equations**

INIS: 2000-04-12; ETDE: 1995-09-22

- USE boltzmann-vlasov equation

**vlb systems**

INIS: 1984-04-04; ETDE: 2002-05-24

- USE interferometers

**vlcc**

INIS: 2000-04-12; ETDE: 1976-08-04  
USE tanker ships

**VMI MODEL**

UF variable moment of inertia model  
\*BT1 nuclear models  
RT backbending  
RT moment of inertia

**vnt alloys**

INIS: 1996-11-13; ETDE: 1978-12-20  
(Prior to March 1997 STEEL VNT was used for this concept in ETDE.)  
USE manganese steels

**voc**

INIS: 2000-04-12; ETDE: 1992-09-15  
USE organic compounds  
USE volatile matter

**vocabulary (controlled)**

USE standardized terminology

**vocational training**

INIS: 2000-04-12; ETDE: 1980-09-22  
USE training

**VOGTLE-1 REACTOR**

Southern Nuclear Operating Co., Inc.,  
Waynesboro, Georgia, USA.  
\*BT1 pwr type reactors

**VOGTLE-2 REACTOR**

Southern Nuclear Operating Co., Inc.,  
Waynesboro, Georgia, USA.  
\*BT1 pwr type reactors

**VOGTLE-3 REACTOR**

Georgia Power Co., Waynesboro, Georgia,  
USA. Canceled in 1974 before construction  
began.  
\*BT1 pwr type reactors

**VOGTLE-4 REACTOR**

Georgia Power Co., Waynesboro, Georgia,  
USA. Canceled in 1974 before construction  
began.  
\*BT1 pwr type reactors

**VOID COEFFICIENT**

BT1 reactivity coefficients

**VOID FRACTION**

RT liquids  
RT vapors

**VOIDS**

RT boiling detection  
RT bubbles  
RT cavities  
RT defects

**VOIGT EFFECT**

UF cotton-mouton effect  
BT1 magneto-optical effects  
RT plasma  
RT polarization  
RT visible radiation

**VOLATILE MATTER**

INIS: 1986-05-26; ETDE: 1976-09-14  
Materials capable of being readily  
evaporated.  
UF voc  
BT1 matter  
RT coal  
RT devolatilization  
RT pyrolysis products  
RT pyrolytic gases  
RT pyrolytic oils  
RT volatility

**VOLATILITY**

RT chloride volatility process  
RT devolatilization  
RT distillation  
RT fluoride volatility process  
RT volatile matter

**volatilization**

USE evaporation

**VOLCANIC GASES**

INIS: 1993-03-23; ETDE: 1978-08-08  
Volatile matter released during a volcanic  
eruption that was previously dissolved in the  
magma.  
\*BT1 gases  
RT fumarolic fluids  
RT volcanism  
RT volcanoes

**VOLCANIC REGIONS**

1997-06-17  
RT hachimantai  
RT volcanoes

**VOLCANIC ROCKS**

1976-03-17  
\*BT1 igneous rocks  
NT1 andesites  
NT1 basalt  
NT2 diabases  
NT1 lamprophyres  
NT2 kimberlites  
NT1 nepheline basalts  
NT1 perlite  
NT1 rhyolites  
NT1 trachytes  
NT1 tuff

**VOLCANISM**

INIS: 1992-04-13; ETDE: 1975-11-11  
The process by which magma and its  
associated gases rise into the earth's crust and  
are extruded onto the earth's surface and into  
the atmosphere.  
RT eruption  
RT lava  
RT magma  
RT magmatism  
RT volcanic gases  
RT volcanoes

**VOLCANOES**

1996-04-29  
NT1 kilauea volcano  
RT calderas  
RT earth crust  
RT eruption  
RT fumaroles  
RT geology  
RT geothermal energy  
RT hot spots  
RT lava  
RT magma  
RT mt st helens  
RT volcanic gases  
RT volcanic regions  
RT volcanism

**VOLES**

\*BT1 rodents

**VOLGA RIVER**

\*BT1 rivers  
RT russian federation

**VOLOXIDATION PROCESS**

Separation process designed to remove  
volatile fission products from spent LMFBR  
fuels.  
BT1 head end processes

**volt-ampere characteristic**

USE electric conductivity

**volt-ampere reactive control systems**

INIS: 2000-04-12; ETDE: 1983-03-23  
USE var control systems

**voltage**

USE electric potential

**VOLTAGE DROP**

INIS: 1999-07-01; ETDE: 1976-01-07  
NT1 electrical transients  
RT electric potential  
RT resistors

**VOLTAGE REGULATORS**

UF regulators (voltage)  
RT electric controllers  
RT surges

**voltaic cells**

USE electric batteries

**VOLTAMETRY**

UF coulometry  
RT currents  
RT electrolysis  
RT electrolytic cells  
RT potentiostats  
RT quantitative chemical analysis

**volterra equations**

USE volterra integral equations

**VOLTERRA INTEGRAL EQUATIONS**

UF volterra equations  
\*BT1 integral equations

**VOLTMETERS**

\*BT1 electric measuring instruments

**VOLUME**

RT dilatancy  
RT dimensions  
RT size

**VOLUMETRIC ANALYSIS**

1995-11-22  
\*BT1 quantitative chemical analysis  
NT1 titration  
NT2 amperometry  
NT2 iodometry  
NT2 potentiometry  
NT2 thermometric titration

**VOMITING**

BT1 symptoms  
RT digestive system diseases  
RT stomach

**VORONEZH AST-500 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13  
Voronezh, Russian Federation.  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**VORTEX AUGMENTED TURBINES**

INIS: 2000-04-12; ETDE: 1977-06-02  
Horizontal axis turbines located at trailing  
ends of aerodynamic wing to utilize vortex air  
flow from wing tips.  
\*BT1 wind turbines  
RT horizontal axis turbines

**VORTEX FLOW**

(Prior to October 1981 this concept was  
indexed to SWIRL FLOW in ETDE.)  
UF swirl flow  
BT1 fluid flow  
RT superfluidity

**VORTICES**

RT turbulence

**vortices (magnetic)**

USE magnetic flux

**VOYAGER SPACE PROBES**

INIS: 1978-04-21; ETDE: 1978-07-06

\*BT1 space vehicles

**vpi and su training reactor**

INIS: 1985-04-22; ETDE: 2002-05-24

USE vpi-utr-10 reactor

**VPI-UTR-10 REACTOR**

1985-04-22

Virginia Polytechnic Inst. and State Univ., Blacksburg, Virginia, USA. Shut down in 1985.

UF virginia polytechnic institute training reactor

UF vpi and su training reactor

\*BT1 argonaut type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**VR-1 REACTOR**

INIS: 1986-08-19; ETDE: 1986-09-05

Faculty of Nuclear Science and Technical Engineering, Czech Technical Univ., Prague, Czech Republic.

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 thermal reactors

\*BT1 training reactors

**VRAIN REACTOR**

Public Service Co. of Colorado, Platteville, Colorado, USA. Shut down in 1989; decommissioned in 1996.

UF fort st. vrain reactor

\*BT1 enriched uranium reactors

\*BT1 helium cooled reactors

\*BT1 htgr type reactors

\*BT1 power reactors

**VUILLEUMIER CYCLE**

INIS: 2000-04-12; ETDE: 1978-01-23

BT1 thermodynamic cycles

RT solar air conditioners

**VUJE**

2002-12-17

UF nuclear power plant research institute

UF vyskumny ustav jadrovych elektrarni

\*BT1 slovak organizations

**vulcain/belgian-3 reactor**

USE br-3-vn reactor

**vulcain experiment nuclear study**

2000-04-12

USE venus reactor

**VULCAN FACILITY**

INIS: 1999-07-26; ETDE: 1999-09-03

Neodymium laser facility at Rutherford Appleton Laboratories, UK.

RT laser fusion reactors

RT neodymium lasers

**VULCANIZATION**

RT curing

RT rubbers

RT vulcanized elastomers

**VULCANIZED ELASTOMERS**

1999-06-30

NTI ebonite

RT elastomers

RT vulcanization

**VULNERABILITY**

INIS: 1992-04-06; ETDE: 1978-07-05

(From May 1987 till March 1997

TERRORISM was a valid ETDE descriptor.)

SF terrorism

RT sabotage

RT safeguards

RT theft

RT warfare

**vulpes**

INIS: 1993-02-18; ETDE: 1985-03-12

USE foxes

**VYCOR**

RT glass

**vyskumny ustav jadrovych elektrarni**

2002-12-17

USE vuje

**w. b. mc guire-1 reactor**

USE mc guire-1 reactor

**w. b. mc guire-2 reactor**

USE mc guire-2 reactor

**w boson**

ETDE: 2002-05-24

USE intermediate bosons

**W CODES**

BT1 computer codes

**W-L SULFUR DIOXIDE RECOVERY PROCESS**

2000-04-12

Process for desulfurization of waste gas stream developed by Wellman-Power Gas, Inc.

UF wellman-lord process

\*BT1 desulfurization

RT waste processing

**W MINUS BOSONS**

INIS: 1986-03-04; ETDE: 1985-10-11

(Prior to October 1985 this concept was indexed to INTERMEDIATE VECTOR BOSONS in ETDE.)

\*BT1 intermediate vector bosons

**W PLUS BOSONS**

INIS: 1986-03-04; ETDE: 1985-10-11

(Prior to October 1985 this concept was indexed to INTERMEDIATE VECTOR BOSONS in ETDE.)

\*BT1 intermediate vector bosons

**w stellarators**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE wendelstein-2b stellarator

SEE wendelstein-7 stellarator

**WABASCA DEPOSIT**

1992-06-04

\*BT1 oil sand deposits

RT alberta

RT canada

RT oil sands

**WACKERSDORF REPROCESSING PLANT**

INIS: 1995-09-18; ETDE: 1988-05-23

Wiederaufarbeitungsanlage Wackersdorf, Federal Republic of Germany.

UF waw

UF wiederaufarbeitungsanlage wackersdorf

\*BT1 fuel reprocessing plants

RT reprocessing

RT spent fuel elements

RT spent fuels

**WADDEN SEA**

1999-01-12

\*BT1 north sea

RT netherlands

**wageningen barn reactor**

USE barn reactor

**WAGES**

INIS: 1992-10-05; ETDE: 1980-08-12

UF salary

RT personnel

RT work

**wagon wheel event**

1994-10-14

A test made under PROJECT PLOWSHARE.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE contained explosions

USE nuclear explosions

**WAGR REACTOR**

UF agr reactor (windscale)

UF windscale advanced gas-cooled reactor

\*BT1 agr type reactors

\*BT1 carbon dioxide cooled reactors

\*BT1 power reactors

\*BT1 thermal reactors

**WAIOTAPU GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields

RT new zealand

**WAIRAKEI GEOTHERMAL FIELD**

1993-02-08

BT1 geothermal fields

RT geothermal hot-water systems

RT new zealand

**WAIRAKITE**

2000-04-12

The calcium analog of analcime.

\*BT1 zeolites

**WAK**

Wiederaufarbeitungsanlage Karlsruhe.

UF karlsruhe reprocessing plant

UF wiederaufarbeitungsanlage karlsruhe

\*BT1 fuel reprocessing plants

\*BT1 german fr organizations

RT reprocessing

RT spent fuel elements

RT spent fuels

**WAKEFIELD ACCELERATORS**

INIS: 1987-04-28; ETDE: 1986-07-25

Accelerators in which particles gain energy from electromagnetic waves (the "wake") generated by a relativistic beam.

\*BT1 linear accelerators

RT acceleration

RT plasma waves

**WALECKA MODEL**

INIS: 1984-10-23; ETDE: 1984-11-08

A mean-field theory of nuclear matter with scalar and vector fields as carriers of nuclear forces.

\*BT1 nuclear models

RT nuclear matter

**walker carcinoma**

USE experimental neoplasms



**wall effect**

INIS: 1982-12-01; ETDE: 2002-05-24  
(Prior to January 1983 this was a valid descriptor for the contribution to ionization in an ionization chamber by electrons liberated from the chamber walls.)

USE wall effects

**WALL EFFECTS**

1995-07-03

UF plasma-wall interactions

UF wall effect

RT end effects

RT ionization

RT ionization chambers

RT microdosimetry

RT particle influx

RT plasma

RT plasma impurities

RT proportional counters

RT wall-less counters

**WALL-LESS COUNTERS**

\*BT1 radiation detectors

RT ionization chambers

RT proportional counters

RT wall effects

**WALL LOADING**

INIS: 1975-08-20; ETDE: 1975-10-01

Surface power density at thermonuclear reactor walls.

BT1 power density

RT first wall

**WALLS**

INIS: 1992-05-26; ETDE: 1975-11-11

UF building envelope

NT1 bead walls

NT1 drum walls

NT1 trombe walls

NT1 water walls

RT buildings

RT panels

**walls (cell)**

INIS: 1992-05-26; ETDE: 2002-05-24

USE cell wall

**walls (thermonuclear reactor)**

INIS: 1992-05-26; ETDE: 2002-05-24

USE thermonuclear reactor walls

**walter reed research reactor I-54**

1993-11-10

USE wrrr reactor

**WALTHER PROCESS**

INIS: 2000-04-12; ETDE: 1982-08-11

Desulfurization process in which ammonia is used to produce pelletized ammonium sulfate as a dry end product for direct use as a fertilizer.

\*BT1 desulfurization

**WANKEL ENGINES**

2000-04-12

\*BT1 rotary engines

\*BT1 spark ignition engines

**WANO**

INIS: 1990-05-17; ETDE: 1990-06-01

World Association of Nuclear Operators.

UF world association of nuclear operators

BT1 international organizations

RT nuclear operators

**wapa**

INIS: 2000-04-12; ETDE: 1980-03-29

USE western area power administration

**WARD IDENTITY**

RT gauge invariance

RT quantum electrodynamics

**WARFARE**

1997-06-17

NT1 biological warfare

NT1 chemical warfare

NT1 conventional warfare

NT1 radiological warfare

RT military strategy

RT national defense

RT vulnerability

**WARM SPRINGS**

INIS: 2000-01-26; ETDE: 1980-06-06

Springs whose temperature is appreciably above the local mean annual temperature but below that of the human body.

SF geothermal springs

\*BT1 thermal springs

RT hydrothermal systems

**warning systems**

INIS: 1984-04-04; ETDE: 2002-05-24

USE alarm systems

**WARRANTIES**

INIS: 2000-04-19; ETDE: 1979-07-24

RT consumer protection

RT equipment

RT legal aspects

**WARSAW CYCLOTRON**

INIS: 1982-07-22; ETDE: 1982-08-11

\*BT1 heavy ion accelerators

\*BT1 isochronous cyclotrons

**WASATCH FORMATION**

1984-04-04

BT1 geologic formations

RT colorado

RT natural gas

RT natural gas deposits

RT oil shales

RT uranium deposits

RT wyoming

**WASHAKIE BASIN**

2000-04-12

\*BT1 wyoming

RT green river formation

RT oil shale deposits

**washers, clothes**

INIS: 2000-04-12; ETDE: 1977-06-21

USE clothes washers

**washers (fuel)**

USE fuel washers

**WASHING**

1992-03-11

UF laundries

BT1 cleaning

RT clothes washers

RT coal preparation

RT dishwashers

RT heavy media separation

RT safety showers

RT scrubbing

**WASHINGTON**

1999-03-03

\*BT1 usa

NT1 richland

RT cascade mountains

RT columbia river

RT columbia river basin

RT hanford engineering development

RT laboratory

RT hanford reservation

RT lewis river

RT mt baker

RT mt st helens

RT pasco basin

RT puget sound

RT sequim bay

RT skagit river

RT us west coast

**WASHINGTON DC**

UF district of columbia

\*BT1 usa

RT potomac river basin

**washington public power supply system-1 reactor**

INIS: 2000-04-12; ETDE: 1997-03-28

USE wnp-1 reactor

**washington public power supply system-2 reactor**

INIS: 2000-04-12; ETDE: 1997-03-28

USE wnp-2 reactor

**washington public power supply system-3 reactor**

INIS: 2000-04-12; ETDE: 1997-03-28

USE wnp-3 reactor

**washington public power supply system-4 reactor**

INIS: 2000-04-12; ETDE: 1997-03-28

USE wnp-4 reactor

**washington public power supply system-5 reactor**

INIS: 2000-04-12; ETDE: 1997-03-28

USE wnp-5 reactor

**washington state university reactor**

1993-11-10

USE wsur reactor

**washington university (seattle) reactor**

INIS: 1993-11-10; ETDE: 2002-05-24

USE uwtr reactor

**WASHOUT**

UF rainout

UF scavenging (atmospheric)

UF wet deposition

BT1 fallout

RT air pollution

RT atmospheric precipitations

RT decontamination

RT droplets

RT precipitation scavenging

RT radioactive clouds

RT rain

RT sprays

RT water

**WASPALOY**

1993-10-03

\*BT1 alloy-ni58cr20co14mo4ti3

**WASPS**

1996-11-13

(Prior to March 1997 HABROBRACON was a valid ETDE descriptor.)

UF habrobracon

\*BT1 hymenoptera

**waste burial**

SEE ground disposal

SEE underground disposal

**waste chemicals**

INIS: 1986-07-09; ETDE: 1982-03-29

USE chemical wastes

**WASTE DISPOSAL**

*For final disposal of wastes, with no intention of retrieval.*

- UF discharges (wastes)
- UF disposal (wastes)
- UF sewage disposal
- UF ultimate storage
- \*BT1 waste management
- NT1 ground disposal
- NT1 ground release
- NT1 marine disposal
- NT1 nonradioactive waste disposal
- NT1 radioactive waste disposal
- NT1 sanitary landfills
- NT1 stack disposal
- NT1 underground disposal
- RT aerosol wastes
- RT gaseous wastes
- RT global aspects
- RT hydraulic fracturing
- RT liquid wastes
- RT reinjection
- RT salt vault project
- RT solid wastes
- RT spent liquors
- RT us superfund
- RT waste disposal acts
- RT waste processing
- RT waste storage
- RT wastes

**WASTE DISPOSAL ACTS**

*INIS: 1992-05-18; ETDE: 1978-04-27*

*For legislation of any country relating to the handling of nonradioactive wastes. For radioactive wastes, use NUCLEAR WASTE POLICY ACTS.*

- BT1 laws
- NT1 nuclear waste policy acts
- RT liquid wastes
- RT nonradioactive waste disposal
- RT resource recovery acts
- RT solid wastes
- RT us superfund
- RT waste disposal

**WASTE FORMS**

*INIS: 1985-11-18; ETDE: 1984-02-10*

*Physical and chemical forms of wastes (e.g. liquid, in concrete, in glass) without packaging.*

- UF wasteforms
- \*BT1 radioactive wastes
- RT gaseous wastes
- RT liquid wastes
- RT radioactive waste disposal
- RT radioactive waste processing
- RT solid wastes
- RT waste management

**waste-fueled boilers**

*INIS: 1992-05-18; ETDE: 1979-05-09*

USE refuse-fueled boilers

**waste-fueled power plants**

*INIS: 2000-04-12; ETDE: 1979-03-27*

USE refuse-fueled power plants

**WASTE HEAT**

- \*BT1 heat
- BT1 wastes
- RT cogeneration
- RT district heating
- RT energy sources
- RT heat sinks
- RT plumes
- RT thermal effluents
- RT thermal pollution
- RT waste heat utilization

**WASTE HEAT BOILERS**

*INIS: 1992-04-09; ETDE: 1978-12-20*

- BT1 boilers
- RT cogeneration
- RT heat recovery equipment
- RT waste heat utilization

**WASTE HEAT UTILIZATION**

*INIS: 1986-05-26; ETDE: 1977-06-21*

*(From January 1979 till February 1997 ENERGY CASCADE was a valid ETDE descriptor.)*

- UF energy cascade
- UF energy cascading
- BT1 waste product utilization
- RT aquaculture
- RT cogeneration
- RT heat recovery
- RT waste heat
- RT waste heat boilers

**WASTE INCINERATORS**

*2004-02-11*

- BT1 incinerators
- \*BT1 waste processing plants

**waste isolation pilot plant**

*INIS: 1985-04-22; ETDE: 1984-10-10*

USE wipp

**WASTE MANAGEMENT**

- UF handling (wastes)
- BT1 management
- NT1 nonradioactive waste management
- NT2 nonradioactive waste disposal
- NT1 radioactive waste management
- NT2 radioactive waste disposal
- NT2 radioactive waste processing
- NT3 harvest process
- NT2 radioactive waste storage
- NT3 monitored retrievable storage
- NT1 waste disposal
- NT2 ground disposal
- NT2 ground release
- NT2 marine disposal
- NT2 nonradioactive waste disposal
- NT2 radioactive waste disposal
- NT2 sanitary landfills
- NT2 stack disposal
- NT2 underground disposal
- NT1 waste processing
- NT2 activated sludge process
- NT2 composting
- NT2 fluidized bed refuse gasification
- NT2 landgard pyrolysis system
- NT2 lime-soda sinter process
- NT2 materials recovery
- NT2 molten salt waste gasification process
- NT2 occidental flash pyrolysis process
- NT2 purox pyrolysis process
- NT2 radioactive waste processing
- NT3 harvest process
- NT2 slagging pyrolysis process
- NT2 steam stripping
- NT2 syngas process
- NT2 unisulf process
- NT2 wet oxidation processes
- NT1 waste retrieval
- NT1 waste storage
- NT2 radioactive waste storage
- NT3 monitored retrievable storage
- NT1 waste transportation
- RT hazardous materials
- RT waste forms
- RT waste oils
- RT waste product utilization

**WASTE OIL REFINERIES**

*INIS: 1992-08-12; ETDE: 1981-07-18*

- \*BT1 waste processing plants
- RT lubricating oils
- RT petroleum refineries
- RT recycling
- RT waste oils
- RT waste product utilization

**WASTE OILS**

*INIS: 1992-03-17; ETDE: 1976-10-13*

- \*BT1 oils
- RT lubricating oils
- RT recycling
- RT waste management
- RT waste oil refineries

**WASTE PELLETS**

*INIS: 1981-03-10; ETDE: 1981-04-17*

- BT1 pellets
- \*BT1 solid wastes
- RT pelletizing
- RT radioactive wastes

**WASTE PROCESSING**

*1996-04-18*

- UF bailie process
- UF bamag process
- UF black clawson system
- UF caloricon process
- UF citrex process
- UF cyam process
- UF flame chamber process
- UF hichlor process
- UF processing (wastes)
- UF pyrotek process
- UF sewage treatment
- UF waste treatment
- SF destrugas process
- BT1 processing
- \*BT1 waste management
- NT1 activated sludge process
- NT1 composting
- NT1 fluidized bed refuse gasification
- NT1 landgard pyrolysis system
- NT1 lime-soda sinter process
- NT1 materials recovery
- NT1 molten salt waste gasification process
- NT1 occidental flash pyrolysis process
- NT1 purox pyrolysis process
- NT1 radioactive waste processing
- NT2 harvest process
- NT1 slagging pyrolysis process
- NT1 steam stripping
- NT1 syngas process
- NT1 unisulf process
- NT1 wet oxidation processes
- RT aerobic digestion
- RT alkalized alumina process
- RT ammonia-ammonium bisulfate process
- RT anaerobic digestion
- RT bergbauforschung process
- RT bischoff process
- RT bitumens
- RT calcination
- RT cea-adj dual alkali process
- RT chiyoda thoroughbred process
- RT evaporation
- RT flotation
- RT fmc double alkali process
- RT freezing out
- RT lime-limestone wet scrubbing processes
- RT liquid wastes
- RT magnesium slurry scrubbing process
- RT perox process
- RT precipitation
- RT process control
- RT recycling

RT regeneration  
 RT resox process  
 RT saarberg-holter process  
 RT scrap  
 RT scrubbers  
 RT settling ponds  
 RT shell-uop copper oxide process  
 RT solidification  
 RT soxal process  
 RT thiosorbic process  
 RT vacuum carbonate process  
 RT vitrification  
 RT w-l sulfur dioxide recovery process  
 RT waste disposal  
 RT waste processing plants  
 RT wet ashing

**WASTE PROCESSING PLANTS**

INIS: 1992-05-28; ETDE: 1975-10-01

UF *cpu-400 combustion plant*  
 BT1 industrial plants  
 NT1 resource recovery facilities  
 NT1 waste incinerators  
 NT1 waste oil refineries  
 RT biogas process  
 RT landgard pyrolysis system  
 RT occidental flash pyrolysis process  
 RT purox pyrolysis process  
 RT waste processing

**WASTE PRODUCT UTILIZATION**

INIS: 1981-12-23; ETDE: 1977-08-09

*Use of waste products as raw material, either directly or after processing, e.g. sewage sludge for fertilizer, or radioactive waste as a source of radiation.*

NT1 waste heat utilization  
 RT cogeneration  
 RT energy recovery  
 RT spent liquors  
 RT stillage  
 RT waste management  
 RT waste oil refineries

**WASTE RETRIEVAL**

INIS: 1981-08-18; ETDE: 1981-09-22

(From August 1979 till March 1997 WASTE RETRIEVAL was a valid ETDE descriptor.)

SF *retrieval systems*  
 \*BT1 waste management  
 RT materials handling  
 RT radioactive waste facilities  
 RT radioactive wastes

**WASTE-ROCK INTERACTIONS**

INIS: 1981-10-15; ETDE: 1981-03-17

RT backfilling  
 RT chemical reactions  
 RT radioactive waste disposal  
 RT rock-fluid interactions  
 RT rocks

**waste solutions**

USE liquid wastes

**WASTE STORAGE**

*For temporary storage of wastes.*

UF *interim storage*  
 UF *intermediate storage*  
 UF *storage (wastes)*  
 BT1 storage  
 \*BT1 waste management  
 NT1 radioactive waste storage  
 NT2 monitored retrievable storage  
 RT underground storage  
 RT waste disposal

**WASTE TRANSPORTATION**

\*BT1 waste management  
 RT away-from-reactor storage  
 RT routing

RT transport

**waste treatment**

USE waste processing

**WASTE WATER**

1982-12-03

UF *oil shale waste water*  
 \*BT1 liquid wastes  
 \*BT1 water  
 NT1 shale tar water  
 RT acid mine drainage  
 RT bioreactors  
 RT drainage  
 RT reinjection  
 RT steam stripping  
 RT water pollution  
 RT water treatment

**wasteforms**

INIS: 2000-04-12; ETDE: 1984-11-08

USE waste forms

**WASTES**

NT1 aerosol wastes  
 NT2 fly ash  
 NT1 biological wastes  
 NT2 feces  
 NT2 manures  
 NT2 sewage sludge  
 NT2 sweat  
 NT2 urine  
 NT1 gaseous wastes  
 NT2 exhaust gases  
 NT2 flue gas  
 NT1 industrial wastes  
 NT2 spent liquors  
 NT1 liquid wastes  
 NT2 spent liquors  
 NT2 waste water  
 NT3 shale tar water  
 NT1 municipal wastes  
 NT1 nonradioactive wastes  
 NT2 chemical wastes  
 NT3 chemical effluents  
 NT1 organic wastes  
 NT2 agricultural wastes  
 NT3 bagasse  
 NT3 manures  
 NT2 compost  
 NT2 stillage  
 NT2 wood wastes  
 NT1 radioactive wastes  
 NT2 alpha-bearing wastes  
 NT2 calcined wastes  
 NT2 high-level radioactive wastes  
 NT2 intermediate-level radioactive wastes  
 NT2 low-level radioactive wastes  
 NT2 radioactive effluents  
 NT2 waste forms  
 NT1 sewage  
 NT2 sewage sludge  
 NT1 solid wastes  
 NT2 mineral wastes  
 NT3 culm  
 NT2 scrap  
 NT3 scrap metals  
 NT2 spoil banks  
 NT2 tailings  
 NT3 mill tailings  
 NT3 oil sand tailings  
 NT2 waste pellets  
 NT2 wood wastes  
 NT1 waste heat  
 RT by-products  
 RT hazardous materials  
 RT pollution  
 RT pyrolysis products  
 RT recycling

RT residues  
 RT sludges  
 RT storage facilities  
 RT us superfund  
 RT waste disposal

**WATER**

1996-06-19

UF *hydrogen hydroxides*  
 UF *oxygen hydrides*  
 UF *water coolant*  
 UF *water moderator*  
 BT1 hydrogen compounds  
 BT1 oxygen compounds  
 NT1 drinking water  
 NT1 feedwater  
 NT1 fresh water  
 NT1 ground water  
 NT2 interstitial water  
 NT2 magmatic water  
 NT1 heavy water  
 NT1 hot water  
 NT1 rain water  
 NT2 throughfall  
 NT1 seawater  
 NT1 tritium oxides  
 NT1 waste water  
 NT2 shale tar water  
 RT anhydrides  
 RT aqueous solutions  
 RT balneology  
 RT clouds  
 RT coolants  
 RT cooling  
 RT demineralizers  
 RT electromagnetic filters  
 RT environmental materials  
 RT glaciers  
 RT hydrates  
 RT hydrogels  
 RT hydronium radicals  
 RT hydrophilic polymers  
 RT hydrosphere  
 RT ice  
 RT interception  
 RT liming  
 RT liquid wastes  
 RT moderators  
 RT moisture  
 RT recombiners  
 RT slush  
 RT steam  
 RT surface waters  
 RT total flow systems  
 RT washout  
 RT water chemistry  
 RT water influx  
 RT water requirements  
 RT water resources  
 RT water rights

**WATER BRAKES**

INIS: 2000-04-12; ETDE: 1979-04-11

*Devices for conversion of mechanical energy into heat energy by use of rotating or reciprocating blades in contained water system and prevention of gust overspeed in fixed-pitch wind turbines.*

\*BT1 brakes  
 RT energy conversion  
 RT wind turbines

**WATER CHEMISTRY**

1975-09-26

UF *chemistry (water)*  
 UF *cooling water chemical treatment*  
 BT1 chemistry  
 NT1 acid neutralizing capacity  
 RT chemical analysis  
 RT chemical composition

RT coolants  
 RT corrosion denting  
 RT demineralization  
 RT dissolved gases  
 RT feedwater  
 RT reactor cooling systems  
 RT water  
 RT water cooled reactors

**water content**

SEE humidity  
 SEE moisture

**water coolant**

USE water

**water cooled graphite moderated reactors**

1993-11-10

USE lwgr type reactors

**WATER COOLED REACTORS**

UF *light water cooled reactors*

UF *lwr type reactors*

BT1 reactors

NT1 aarr reactor

NT1 acpr reactor

NT1 anna reactor

NT1 aqueous homogeneous reactors

NT2 ai-l-77 reactor

NT2 argus reactor

NT2 ber-2 reactor

NT2 byu l-77 reactor

NT2 cesnef reactor

NT2 dr-1 reactor

NT2 frf reactor

NT2 gidra reactor

NT2 hre-2 reactor

NT2 jrr-1 reactor

NT2 kewb reactor

NT2 kstr reactor

NT2 ncsr-1 reactor

NT2 nevada university reactor

NT2 prnc-l-77 reactor

NT2 supo reactor

NT2 wrrr reactor

NT1 argonaut type reactors

NT2 aeg-pr-10 reactor

NT2 arbi reactor

NT2 argonaut reactor

NT2 argos reactor

NT2 athene reactor

NT2 jason reactor

NT2 lfr reactor

NT2 moata reactor

NT2 nestor reactor

NT2 queen mary college utr-b reactor

NT2 ra-1 reactor

NT2 rb-2 reactor

NT2 rien-1 reactor

NT2 srsc-utr-100 reactor

NT2 stark reactor

NT2 strasbourg-cronenbourg reactor

NT2 ufr reactor

NT2 ulysse reactor

NT2 urr reactor

NT2 utr-10-kinki reactor

NT2 vpi-utr-10 reactor

NT1 astr reactor

NT1 atr reactor

NT1 atsr reactor

NT1 borax-1 reactor

NT1 borax-2 reactor

NT1 borax-3 reactor

NT1 borax-4 reactor

NT1 borax-5 reactor

NT1 br-02 reactor

NT1 br-2 reactor

NT1 br-3-vn reactor

NT1 bwr type reactors

NT2 allens creek-1 reactor

NT2 allens creek-2 reactor

NT2 bailly-1 reactor

NT2 barsebaeck-1 reactor

NT2 barsebaeck-2 reactor

NT2 barton-1 reactor

NT2 barton-2 reactor

NT2 barton-3 reactor

NT2 barton-4 reactor

NT2 bell reactor

NT2 big rock point reactor

NT2 black fox-1 reactor

NT2 black fox-2 reactor

NT2 bolsa chica-1 reactor

NT2 bolsa chica-2 reactor

NT2 bonus reactor

NT2 browns ferry-1 reactor

NT2 browns ferry-2 reactor

NT2 browns ferry-3 reactor

NT2 brunsbuettel reactor

NT2 brunswick-1 reactor

NT2 brunswick-2 reactor

NT2 chinshan-1 reactor

NT2 chinshan-2 reactor

NT2 clinton-1 reactor

NT2 clinton-2 reactor

NT2 cofrentes reactor

NT2 cooper reactor

NT2 dodewaard reactor

NT2 douglas point-1 reactor

NT2 douglas point-2 reactor

NT2 dresden-1 reactor

NT2 dresden-2 reactor

NT2 dresden-3 reactor

NT2 duane arnold-1 reactor

NT2 ebwr reactor

NT2 enel-4 reactor

NT2 enrico fermi-2 reactor

NT2 err reactor

NT2 fitzpatrick reactor

NT2 forsmark-1 reactor

NT2 forsmark-2 reactor

NT2 forsmark-3 reactor

NT2 fukushima-1 reactor

NT2 fukushima-2 reactor

NT2 fukushima-3 reactor

NT2 fukushima-4 reactor

NT2 fukushima-5 reactor

NT2 fukushima-6 reactor

NT2 fukushima-ii-1 reactor

NT2 fukushima-ii-2 reactor

NT2 fukushima-ii-3 reactor

NT2 fukushima-ii-4 reactor

NT2 garigliano reactor

NT2 garona reactor

NT2 ge standard reactor

NT2 graben-1 reactor

NT2 graben-2 reactor

NT2 grand gulf-1 reactor

NT2 grand gulf-2 reactor

NT2 gundremmingen-2 reactor

NT2 gundremmingen-3 reactor

NT2 hamaoka-1 reactor

NT2 hamaoka-2 reactor

NT2 hamaoka-3 reactor

NT2 hamaoka-4 reactor

NT2 hamaoka-5 reactor

NT2 hartsville-1 reactor

NT2 hartsville-2 reactor

NT2 hartsville-3 reactor

NT2 hartsville-4 reactor

NT2 hatch-1 reactor

NT2 hatch-2 reactor

NT2 hdr reactor

NT2 hope creek-1 reactor

NT3 newbold island-1 reactor

NT2 hope creek-2 reactor

NT3 newbold island-2 reactor

NT2 humboldt bay reactor

NT2 isar reactor

NT2 jcdr-2 reactor

NT2 jcdr reactor

NT2 kaiseraugst reactor

NT2 kashiwazaki-kariwa-1 reactor

NT2 kashiwazaki-kariwa-2 reactor

NT2 kashiwazaki-kariwa-3 reactor

NT2 kashiwazaki-kariwa-4 reactor

NT2 kashiwazaki-kariwa-5 reactor

NT2 kashiwazaki-kariwa-6 reactor

NT2 kashiwazaki-kariwa-7 reactor

NT2 kruemmel reactor

NT2 kuosheng-1 reactor

NT2 kuosheng-2 reactor

NT2 la salle county-1 reactor

NT2 la salle county-2 reactor

NT2 lachwr reactor

NT2 laguna verde-1 reactor

NT2 laguna verde-2 reactor

NT2 leibstadt reactor

NT2 limerick-1 reactor

NT2 limerick-2 reactor

NT2 lingen reactor

NT2 mendocino-1 reactor

NT2 mendocino-2 reactor

NT2 millstone-1 reactor

NT2 montague-1 reactor

NT2 montague-2 reactor

NT2 montalto di castro-1 reactor

NT2 montalto di castro-2 reactor

NT2 monticello reactor

NT2 muehleberg reactor

NT2 nine mile point-1 reactor

NT2 nine mile point-2 reactor

NT2 okg-1 reactor

NT2 okg-2 reactor

NT2 okg-3 reactor

NT2 olkiluoto-1 reactor

NT2 olkiluoto-2 reactor

NT2 onagawa-1 reactor

NT2 onagawa-2 reactor

NT2 onagawa-3 reactor

NT2 oyster creek-1 reactor

NT2 pathfinder reactor

NT2 peach bottom-2 reactor

NT2 peach bottom-3 reactor

NT2 perry-1 reactor

NT2 perry-2 reactor

NT2 philippsburg-1 reactor

NT2 phipps bend-1 reactor

NT2 phipps bend-2 reactor

NT2 pilgrim-1 reactor

NT2 quad cities-1 reactor

NT2 quad cities-2 reactor

NT2 ringhals-1 reactor

NT2 river bend-1 reactor

NT2 river bend-2 reactor

NT2 rwe-bayernwerk reactor

NT2 shika-1 reactor

NT2 shimane-1 reactor

NT2 shimane-2 reactor

NT2 shoreham reactor

NT2 skagit-1 reactor

NT2 skagit-2 reactor

NT2 sl-1 reactor

NT2 susquehanna-1 reactor

NT2 susquehanna-2 reactor

NT2 tarapur-1 reactor

NT2 tarapur-2 reactor

NT2 tokai-2 reactor

NT2 tsuruga reactor

NT2 tullnerfeld reactor

NT2 vak reactor

NT2 vbwr reactor

NT2 vermont yankee reactor

NT2 verplanck-1 reactor

NT2 verplanck-2 reactor

NT2 vk-50 reactor

NT2 wnp-2 reactor

NT2	wuergassen reactor	NT1	pool type reactors	NT2	prr-1 reactor
NT2	zimmer-1 reactor	NT2	agata reactor	NT2	psr reactor
NT2	zimmer-2 reactor	NT2	apsara reactor	NT2	ptr reactor
NT1	curus reactor	NT2	armf-1 reactor	NT2	pulstar-buffalo reactor
NT1	esada-vesr reactor	NT2	astra reactor	NT2	pulstar-raleigh reactor
NT1	etr reactor	NT2	atrc reactor	NT2	pur-1 reactor
NT1	evsr reactor	NT2	avogadro rs-1 reactor	NT2	r2-0 reactor
NT1	ewa reactor	NT2	barn reactor	NT2	ra-6 reactor
NT1	ewg-1 reactor	NT2	bawtr reactor	NT2	ra-8 reactor
NT1	getr reactor	NT2	ber-2 reactor	NT2	rana reactor
NT1	hclwr type reactors	NT2	brr reactor	NT2	rinsc reactor
NT1	hfetr reactor	NT2	bsr-1 reactor	NT2	ritmo reactor
NT1	hfir reactor	NT2	bsr-2 reactor	NT2	rp-10 reactor
NT1	hfr reactor	NT2	cabri reactor	NT2	rts-1 reactor
NT1	hwlwr type reactors	NT2	consort-2 reactor	NT2	rv-1 reactor
NT2	cirene reactor	NT2	cp-6 reactor	NT2	saphir reactor
NT2	gentilly reactor	NT2	crocus reactor	NT2	scarabee reactor
NT2	jatr reactor	NT2	democritus reactor	NT2	siloe reactor
NT1	igr reactor	NT2	dr-2 reactor	NT2	siloette reactor
NT1	iowa utr-10 reactor	NT2	etrc reactor	NT2	slowpoke type reactors
NT1	janus reactor	NT2	etr-2 reactor	NT3	slowpoke-alberta reactor
NT1	jmtr reactor	NT2	fmr reactor	NT3	slowpoke-dalhousie reactor
NT1	kamini reactor	NT2	fmr reactor	NT3	slowpoke-montreal reactor
NT1	kuhfr reactor	NT2	frg-1 reactor	NT3	slowpoke-ottawa reactor
NT1	litr reactor	NT2	frg-2 reactor	NT3	slowpoke-toronto reactor
NT1	lwbr type reactors	NT2	frj-1 reactor	NT3	slowpoke-wnr reactor
NT1	lwgr type reactors	NT2	frm-ii reactor	NT2	spert-4 reactor
NT2	aps reactor	NT2	frm reactor	NT2	stek reactor
NT2	beloyarsk-1 reactor	NT2	frn reactor	NT2	stir reactor
NT2	beloyarsk-2 reactor	NT2	frn reactor	NT2	swierk r-2 reactor
NT2	bilibin reactor	NT2	ga siwabessy reactor	NT2	thetis reactor
NT2	chernobylsk-1 reactor	NT2	gtr reactor	NT2	thor reactor
NT2	chernobylsk-2 reactor	NT2	gulfr triga-mk-3 reactor	NT2	toshiba reactor
NT2	chernobylsk-3 reactor	NT2	hanaro reactor	NT2	tr-1 reactor
NT2	chernobylsk-4 reactor	NT2	herald reactor	NT2	tr-2 reactor
NT2	ignalina-1 reactor	NT2	hor reactor	NT2	triton reactor
NT2	ignalina-2 reactor	NT2	horace reactor	NT2	trr-1 reactor
NT2	kursk-1 reactor	NT2	htr reactor	NT2	tz1 reactor
NT2	kursk-2 reactor	NT2	ian-r1 reactor	NT2	tz2 reactor
NT2	kursk-3 reactor	NT2	iear-1 reactor	NT2	uknr reactor
NT2	kursk-4 reactor	NT2	ir-100 reactor	NT2	umne-1 reactor
NT2	leningrad-1 reactor	NT2	irl reactor	NT2	umrr reactor
NT2	leningrad-2 reactor	NT2	irr-1 reactor	NT2	utrr reactor
NT2	leningrad-3 reactor	NT2	irt-2000 djakarta reactor	NT2	uvar reactor
NT2	leningrad-4 reactor	NT2	irt-2000 moscow reactor	NT2	uwnr reactor
NT2	n-reactor	NT2	irt-c reactor	NT2	vr-1 reactor
NT2	rpt reactor	NT2	irt-f reactor	NT2	wpir reactor
NT2	smolensk-1 reactor	NT2	irt reactor	NT2	wsur reactor
NT2	smolensk-2 reactor	NT2	irt-sofia reactor	NT2	xapr reactor
NT2	smolensk-3 reactor	NT2	isis reactor	NT1	pumima-3 reactor
NT2	uwtr reactor	NT2	ivv-2m reactor	NT1	pwr type reactors
NT1	maple reactor	NT2	ivv-7 reactor	NT2	aguirre reactor
NT1	maple type reactors	NT2	jen-1 reactor	NT2	almaraz-1 reactor
NT1	mir reactor	NT2	jen-2 reactor	NT2	almaraz-2 reactor
NT1	mnsr type reactors	NT2	jen reactor	NT2	angra-1 reactor
NT2	gharr-1 reactor	NT2	jen-3m reactor	NT2	angra-2 reactor
NT2	mnsr-ciae reactor	NT2	jrr-4 reactor	NT2	angra-3 reactor
NT2	mnsr-sd reactor	NT2	jules horowitz reactor	NT2	ardennes b-1 reactor
NT2	mnsr-sh reactor	NT2	kur reactor	NT2	ardennes b-2 reactor
NT2	mnsr-sz reactor	NT2	la reina rech-1 reactor	NT2	ardennes reactor
NT2	nirr-1 reactor	NT2	lido reactor	NT2	arkansas-1 reactor
NT2	parr-2 reactor	NT2	lo aguirre rech-2 reactor	NT2	arkansas-2 reactor
NT2	srr-1 reactor	NT2	lpr reactor	NT2	asco-1 reactor
NT1	mrr reactor	NT2	lptr reactor	NT2	asco-2 reactor
NT1	mtr reactor	NT2	lr-0 reactor	NT2	atlantic-1 reactor
NT1	murr reactor	NT2	ltir reactor	NT2	atlantic-2 reactor
NT1	netr reactor	NT2	maria reactor	NT2	basf-1 reactor
NT1	nhr-5 reactor	NT2	maryla reactor	NT2	basf-2 reactor
NT1	nsrr reactor	NT2	melusine-1 reactor	NT2	beaver valley-1 reactor
NT1	ntr reactor	NT2	merlin reactor	NT2	beaver valley-2 reactor
NT1	orphee reactor	NT2	minerve reactor	NT2	bellefonte-1 reactor
NT1	orr reactor	NT2	mnr reactor	NT2	bellefonte-2 reactor
NT1	osiris reactor	NT2	nscr reactor	NT2	belleville sur loire-1 reactor
NT1	owr reactor	NT2	nur reactor	NT2	belleville sur loire-2 reactor
NT1	pbr reactor	NT2	opal reactor	NT2	beznau-1 reactor
NT1	pegase reactor	NT2	osur reactor	NT2	beznau-2 reactor
NT1	peggy reactor	NT2	parr-1 reactor	NT2	biblis-1 reactor
NT1	perryman-1 reactor	NT2	phebus reactor	NT2	biblis-2 reactor
NT1	perryman-2 reactor	NT2	pik physical model reactor	NT2	biblis-3 reactor
		NT2	prpr reactor		

NT2	biblis-4 reactor	NT2	gravelines-1 reactor	NT2	oconee-2 reactor
NT2	blayais-1 reactor	NT2	gravelines-2 reactor	NT2	oconee-3 reactor
NT2	blue hills-1 reactor	NT2	gravelines-3 reactor	NT2	oi-1 reactor
NT2	blue hills-2 reactor	NT2	gravelines-4 reactor	NT2	oi-2 reactor
NT2	borssele reactor	NT2	gravelines-5 reactor	NT2	oi-3 reactor
NT2	br-3 reactor	NT2	gravelines-6 reactor	NT2	oi-4 reactor
NT2	braidwood-1 reactor	NT2	greene county reactor	NT2	oktemberyan-2 reactor
NT2	braidwood-2 reactor	NT2	greenwood-2 reactor	NT2	olkiluoto-3 reactor
NT2	brokdorf reactor	NT2	greenwood-3 reactor	NT2	otto hahn reactor
NT2	bugey-2 reactor	NT2	grohnde reactor	NT2	palisades-1 reactor
NT2	bugey-3 reactor	NT2	hamm-uentrop reactor	NT2	palo verde-1 reactor
NT2	bugey-4 reactor	NT2	harris-1 reactor	NT2	palo verde-2 reactor
NT2	bugey-5 reactor	NT2	harris-2 reactor	NT2	palo verde-3 reactor
NT2	bw standard reactor	NT2	harris-3 reactor	NT2	palo verde-4 reactor
NT2	byron-1 reactor	NT2	harris-4 reactor	NT2	palo verde-5 reactor
NT2	byron-2 reactor	NT2	haven-1 reactor	NT2	paluel-1 reactor
NT2	calhoun-1 reactor	NT3	koshkonong-1 reactor	NT2	paluel-2 reactor
NT2	calhoun-2 reactor	NT2	haven-2 reactor	NT2	paluel-3 reactor
NT2	callaway-1 reactor	NT3	koshkonong-2 reactor	NT2	paluel-4 reactor
NT2	callaway-2 reactor	NT2	ikata-2 reactor	NT2	pat reactor
NT2	calvert cliffs-1 reactor	NT2	ikata-3 reactor	NT2	pebble springs-1 reactor
NT2	calvert cliffs-2 reactor	NT2	ikata reactor	NT2	pebble springs-2 reactor
NT2	catawba-1 reactor	NT2	indian point-1 reactor	NT2	penly-1 reactor
NT2	catawba-2 reactor	NT2	indian point-2 reactor	NT2	perkins-1 reactor
NT2	cattenom-1 reactor	NT2	indian point-3 reactor	NT2	perkins-2 reactor
NT2	cattenom-2 reactor	NT2	iran-1 reactor	NT2	perkins-3 reactor
NT2	cattenom-3 reactor	NT2	iran-2 reactor	NT2	philippsburg-2 reactor
NT2	cattenom-4 reactor	NT2	isar-2 reactor	NT2	pilgrim-2 reactor
NT2	ce standard reactor	NT2	jamesport-1 reactor	NT2	pilgrim-3 reactor
NT2	cherokee-1 reactor	NT2	jamesport-2 reactor	NT2	pm-2a reactor
NT2	cherokee-2 reactor	NT2	kewaunee reactor	NT2	pm-3a reactor
NT2	cherokee-3 reactor	NT2	koeberg-1 reactor	NT2	prpp-1 reactor
NT2	chinon-b1 reactor	NT2	koeberg-2 reactor	NT2	point beach-1 reactor
NT2	civaux-1 reactor	NT2	kori-1 reactor	NT2	point beach-2 reactor
NT2	civaux-2 reactor	NT2	kori-2 reactor	NT2	prairie island-1 reactor
NT2	comanche peak-1 reactor	NT2	kori-3 reactor	NT2	prairie island-2 reactor
NT2	comanche peak-2 reactor	NT2	kori-4 reactor	NT2	qinshan-1 reactor
NT2	connecticut yankee reactor	NT2	krsko reactor	NT2	qinshan-2-1 reactor
NT2	cook-1 reactor	NT2	lemoniz-1 reactor	NT2	qinshan-2-2 reactor
NT2	cook-2 reactor	NT2	lemoniz-2 reactor	NT2	quanicassee-1 reactor
NT2	cruas-2 reactor	NT2	lenin reactor	NT2	quanicassee-2 reactor
NT2	cruas-3 reactor	NT2	leonid brezhnev reactor	NT2	rancho seco-1 reactor
NT2	cruas-4 reactor	NT2	lingao-1 reactor	NT2	remerschen reactor
NT2	crystal river-3 reactor	NT2	lingao-2 reactor	NT2	rheinsberg akwl reactor
NT2	crystal river-4 reactor	NT2	loft reactor	NT2	ringhals-2 reactor
NT2	dampierre-1 reactor	NT2	lucie-1 reactor	NT2	ringhals-3 reactor
NT2	dampierre-2 reactor	NT2	lucie-2 reactor	NT2	ringhals-4 reactor
NT2	dampierre-3 reactor	NT2	maanshan-1 reactor	NT2	robinson-2 reactor
NT2	dampierre-4 reactor	NT2	maine yankee reactor	NT2	rooppur reactor
NT2	davis besse-1 reactor	NT2	malibu-1 reactor	NT2	rowe yankee reactor
NT2	davis besse-2 reactor	NT2	marble hill-1 reactor	NT2	s1c prototype reactor
NT2	davis besse-3 reactor	NT2	marble hill-2 reactor	NT2	saint alban-1 reactor
NT2	daya bay-1 reactor	NT2	mc guire-1 reactor	NT2	saint alban-2 reactor
NT2	daya bay-2 reactor	NT2	mc guire-2 reactor	NT2	saint laurent-b1 reactor
NT2	diablo canyon-1 reactor	NT2	mh-1a reactor	NT2	salem-1 reactor
NT2	diablo canyon-2 reactor	NT2	midland-1 reactor	NT2	salem-2 reactor
NT2	doel-1 reactor	NT2	midland-2 reactor	NT2	san onofre-1 reactor
NT2	doel-2 reactor	NT2	mihama-1 reactor	NT2	san onofre-2 reactor
NT2	doel-3 reactor	NT2	mihama-2 reactor	NT2	san onofre-3 reactor
NT2	doel-4 reactor	NT2	mihama-3 reactor	NT2	savannah reactor
NT2	efdr-50 reactor	NT2	millstone-2 reactor	NT2	saxton reactor
NT2	emsland reactor	NT2	millstone-3 reactor	NT2	seabrook-1 reactor
NT2	erie-1 reactor	NT2	muelheim-kaerlich reactor	NT2	seabrook-2 reactor
NT2	erie-2 reactor	NT2	mutsu reactor	NT2	selni reactor
NT2	farley-1 reactor	NT2	neckar-1 reactor	NT2	sendai-1 reactor
NT2	farley-2 reactor	NT2	neckar-2 reactor	NT2	sendai-2 reactor
NT2	fessenheim-1 reactor	NT2	nep-1 reactor	NT2	sequoyah-1 reactor
NT2	flamanville-1 reactor	NT2	nep-2 reactor	NT2	sequoyah-2 reactor
NT2	flamanville-2 reactor	NT2	neupotz-1 reactor	NT2	shippingport reactor
NT2	forked river-1 reactor	NT2	neupotz-2 reactor	NT2	sizewell-b reactor
NT2	genkai-1 reactor	NT2	nogent sur seine-1 reactor	NT2	sm-1 reactor
NT2	genkai-2 reactor	NT2	nogent sur seine-2 reactor	NT2	sm-1a reactor
NT2	genkai-3 reactor	NT2	north anna-1 reactor	NT2	south texas project-1 reactor
NT2	genkai-4 reactor	NT2	north anna-2 reactor	NT2	south texas project-2 reactor
NT2	ginna-1 reactor	NT2	north anna-3 reactor	NT2	stade reactor
NT2	goesgen reactor	NT2	north anna-4 reactor	NT2	sterling-1 reactor
NT2	golfech-1 reactor	NT2	north coast-1 reactor	NT2	sterling-2 reactor
NT2	golfech-2 reactor	NT2	obrigheim reactor	NT2	summer-1 reactor
NT2	grafenrheinfeld reactor	NT2	oconee-1 reactor	NT2	sundesert-1 reactor

NT2	sundesert-2 reactor	NT3	kola-2 reactor	NT2	ostr reactor
NT2	surry-1 reactor	NT3	kola-3 reactor	NT2	prpr reactor
NT2	surry-2 reactor	NT3	kola-4 reactor	NT2	pstr reactor
NT2	surry-3 reactor	NT3	kozloduy-1 reactor	NT2	rtp reactor
NT2	surry-4 reactor	NT3	kozloduy-2 reactor	NT2	trico reactor
NT2	takahama-1 reactor	NT3	kozloduy-3 reactor	NT2	triga-1-arizona reactor
NT2	takahama-2 reactor	NT3	kozloduy-4 reactor	NT2	triga-1-california reactor
NT2	takahama-3 reactor	NT3	kozloduy-5 reactor	NT2	triga-1-hanford reactor
NT2	takahama-4 reactor	NT3	kozloduy-6 reactor	NT2	triga-1-hanover reactor
NT2	three mile island-1 reactor	NT3	kudankulam-1 reactor	NT2	triga-1-heidelberg reactor
NT2	three mile island-2 reactor	NT3	kudankulam-2 reactor	NT2	triga-1-michigan reactor
NT2	tihange-2 reactor	NT3	loviisa-1 reactor	NT2	triga-2-bandung reactor
NT2	tihange-3 reactor	NT3	loviisa-2 reactor	NT2	triga-2-bangladesh reactor
NT2	tihange reactor	NT3	mochovce-1 reactor	NT2	triga-2-dalat reactor
NT2	tomari-1 reactor	NT3	mochovce-2 reactor	NT2	triga-2-illinois reactor
NT2	tomari-2 reactor	NT3	novovoronezh-1 reactor	NT2	triga-2-kansas reactor
NT2	tricastin-1 reactor	NT3	novovoronezh-2 reactor	NT2	triga-2-ljubljana reactor
NT2	tricastin-4 reactor	NT3	novovoronezh-3 reactor	NT2	triga-2-mainz reactor
NT2	trillo-1 reactor	NT3	novovoronezh-4 reactor	NT2	triga-2-musashi reactor
NT2	trojan reactor	NT3	novovoronezh-5 reactor	NT2	triga-2-pavia reactor
NT2	tsuruga-2 reactor	NT3	paks-1 reactor	NT2	triga-2-pitesti reactor
NT2	turkey point-3 reactor	NT3	paks-2 reactor	NT2	triga-2 reactor
NT2	turkey point-4 reactor	NT3	paks-3 reactor	NT2	triga-2-rikkyo reactor
NT2	tva-1 reactor	NT3	paks-4 reactor	NT2	triga-2-rome reactor
NT2	tva-2 reactor	NT3	rovno-1 reactor	NT2	triga-2-seoul reactor
NT2	tyrone-1 reactor	NT3	rovno-2 reactor	NT2	triga-2-vienna reactor
NT2	tyrone-2 reactor	NT3	rovno-3 reactor	NT2	triga-3-la jolla reactor
NT2	ulchin-1 reactor	NT3	rovno-4 reactor	NT2	triga-3-munich reactor
NT2	ulchin-2 reactor	NT3	rovno-5 reactor	NT2	triga-3-salazar reactor
NT2	ulchin-3 reactor	NT3	south ukrainian-1 reactor	NT2	triga-3-seoul reactor
NT2	ulchin-4 reactor	NT3	south ukrainian-2 reactor	NT2	triga-brazil reactor
NT2	unterweser reactor	NT3	south ukrainian-3 reactor	NT2	triga-texas reactor
NT2	vahnum-1 reactor	NT3	stendal-1 reactor	NT2	triga-veterans reactor
NT2	vahnum-2 reactor	NT3	tatarian reactor	NT2	ucbrr reactor
NT2	vandellos-2 reactor	NT3	temelin-1 reactor	NT2	uwnr reactor
NT2	vogle-1 reactor	NT3	temelin-2 reactor	NT2	wsur reactor
NT2	vogle-2 reactor	NT3	tianwan-1 reactor	NT1	tsr-2 reactor
NT2	vogle-3 reactor	NT3	zaporozhe-1 reactor	NT1	venus reactor
NT2	vogle-4 reactor	NT3	zaporozhe-2 reactor	NT1	voronezh ast-500 reactor
NT2	waterford-3 reactor	NT3	zaporozhe-3 reactor	NT1	wnt reactor
NT2	waterford-4 reactor	NT3	zaporozhe-4 reactor	NT1	wtr reactor
NT2	watts bar-1 reactor	NT3	zaporozhe-5 reactor	NT1	wwr type reactors
NT2	watts bar-2 reactor	NT3	zaporozhe-6 reactor	NT2	budapest training reactor
NT2	westinghouse standard reactor	NT2	wyhl-1 reactor	NT2	irt-1 libya reactor
NT2	wnp-1 reactor	NT2	wyhl-2 reactor	NT2	irt-baghdad reactor
NT2	wnp-3 reactor	NT2	yellow creek-1 reactor	NT2	lvr-15 reactor
NT2	wnp-4 reactor	NT2	yellow creek-2 reactor	NT2	wwr-2 reactor
NT2	wnp-5 reactor	NT2	yonggwang-1 reactor	NT2	wwr-k-almaty reactor
NT2	wolf creek-1 reactor	NT2	yonggwang-2 reactor	NT2	wwr-m-kiev reactor
NT2	wup-3 reactor	NT2	yonggwang-3 reactor	NT2	wwr-m-leningrad reactor
NT2	wup-4 reactor	NT2	yonggwang-4 reactor	NT2	wwr-s-bucharest reactor
NT2	wup-5 reactor	NT2	zion-1 reactor	NT2	wwr-s-budapest reactor
NT2	wup-6 reactor	NT2	zion-2 reactor	NT2	wwr-s-cairo reactor
NT2	wwer type reactors	NT2	zorita-1 reactor	NT2	wwr-s-moscow reactor
NT3	armenian-1 reactor	NT1	r-2 reactor	NT2	wwr-s-prague reactor
NT3	armenian-2 reactor	NT1	ra-5 reactor	NT2	wwr-s-tashkent reactor
NT3	balakovo-1 reactor	NT1	rg-1m reactor	NT2	wwr-sm rossendorf reactor
NT3	balakovo-2 reactor	NT1	safari-1 reactor	NT2	wwr-z reactor
NT3	balakovo-3 reactor	NT1	sghr reactor	NT1	zifr reactor
NT3	balakovo-4 reactor	NT1	sm-2 reactor	NT1	zr-6 reactor
NT3	blahutovice-1 reactor	NT1	spert-2 reactor	RT	water chemistry
NT3	bohunice v-1 reactor	NT1	spert-3 reactor		
NT3	bohunice v-2 reactor	NT1	sr-1 reactor		
NT3	dukovany-1 reactor	NT1	sr-3p reactor		
NT3	dukovany-2 reactor	NT1	sr-oa reactor		
NT3	dukovany-3 reactor	NT1	tca reactor		
NT3	dukovany-4 reactor	NT1	triga type reactors		
NT3	greifswald-1 reactor	NT2	afri reactor		
NT3	greifswald-2 reactor	NT2	atpr reactor		
NT3	greifswald-3 reactor	NT2	colorado triga-mk-3 reactor		
NT3	greifswald-4 reactor	NT2	cornell triga-mk-2 reactor		
NT3	greifswald-5 reactor	NT2	dow triga-mk-1 reactor		
NT3	greifswald-6 reactor	NT2	fir-1 reactor		
NT3	juragua-1 reactor	NT2	frf-2 reactor		
NT3	kalinin-1 reactor	NT2	frn reactor		
NT3	kalinin-3 reactor	NT2	gulf triga-mk-3 reactor		
NT3	kecerovce-1 reactor	NT2	kartini-ppny reactor		
NT3	khmel'nitskij-1 reactor	NT2	lopra reactor		
NT3	kola-1 reactor	NT2	nsr reactor		

**WATER COOLERS**

2005-04-20

\*BT1 appliances  
 BT1 heat exchangers  
 RT cooling  
 RT drinking water  
 RT refrigerators

**WATER CURRENT POWER GENERATORS**

INIS: 1992-10-02; ETDE: 1976-06-07

\*BT1 electric generators  
 RT hydroelectric power  
 RT tidal power

**WATER CURRENTS**

INIS: 1981-11-26; ETDE: 1977-04-12

Net transport of water along a definable path.

UF currents (water)  
 UF ocean currents  
 BT1 currents  
 NT1 gulf stream  
 RT advection  
 RT downwelling  
 RT lakes  
 RT oceanic circulation  
 RT rivers  
 RT seas  
 RT streams  
 RT surface waters  
 RT tide  
 RT upwelling  
 RT water waves

**water demand**

INIS: 1982-12-03; ETDE: 1979-05-09

USE water requirements

**water distribution**

INIS: 1986-05-26; ETDE: 1979-09-26

USE water supply

**WATER FAUCETS**

INIS: 2000-04-12; ETDE: 1977-06-21

UF faucets (water)  
 \*BT1 valves  
 RT pipe fittings  
 RT plumbing

**WATER GAS**

2000-04-12

Approximately 300 btu per cubic foot.

\*BT1 intermediate btu gas  
 RT carburetted water gas

**WATER GAS PROCESSES**

2000-04-12

Processes in which water gas with steam in excess is passed over catalysts.

BT1 chemical reactions  
 RT hydrogen production

**WATER HAMMER**

RT hydraulics  
 RT impact shock  
 RT shock waves

**WATER HEATERS**

1992-04-07

UF hot water heaters  
 \*BT1 appliances  
 BT1 heaters  
 NT1 solar water heaters  
 NT2 passive solar water heaters  
 NT3 thermic diode solar panels  
 RT annual cycle energy system  
 RT gas appliances  
 RT water heating

**WATER HEATING**

INIS: 2000-05-02; ETDE: 1981-06-13

BT1 heating  
 NT1 geothermal water heating  
 NT1 solar water heating  
 RT hot water  
 RT water heaters

**WATER HYACINTHS**

INIS: 1991-12-16; ETDE: 1977-11-29

BT1 aquatic organisms  
 \*BT1 liliopsida

**water infiltration**

INIS: 1985-10-23; ETDE: 2002-05-24

USE water influx

**WATER INFLUX**

INIS: 1985-10-23; ETDE: 1978-10-23

Entrance of water or aqueous solutions into geologic formations, underground spaces, etc.

UF infiltration (rock)  
 UF infiltration (water)  
 UF influx (water)  
 UF intrusion (water)  
 UF water infiltration  
 UF water intrusion  
 SF intrusion  
 RT aquifers  
 RT cavities  
 RT coal seams  
 RT geologic structures  
 RT ground water  
 RT hydrology  
 RT mine draining  
 RT mines  
 RT natural gas wells  
 RT oil wells  
 RT reservoir rock  
 RT water

**water intrusion**

INIS: 1985-07-23; ETDE: 2002-05-24

USE water influx

**water moderated organic cooled reactors**

USE lwor type reactors

**WATER MODERATED REACTORS**

UF light water moderated reactors

BT1 reactors  
 NT1 aarr reactor  
 NT1 acpr reactor  
 NT1 anna reactor  
 NT1 aqueous homogeneous reactors  
 NT2 ai-1-77 reactor  
 NT2 argus reactor  
 NT2 ber-2 reactor  
 NT2 byu 1-77 reactor  
 NT2 cesnef reactor  
 NT2 dr-1 reactor  
 NT2 frf reactor  
 NT2 gidra reactor  
 NT2 hre-2 reactor  
 NT2 jrr-1 reactor  
 NT2 kewb reactor  
 NT2 kstr reactor  
 NT2 ncsr-1 reactor  
 NT2 nevada university reactor  
 NT2 prnc-l-77 reactor  
 NT2 supo reactor  
 NT2 wrrr reactor  
 NT1 argonaut type reactors  
 NT2 aeg-pr-10 reactor  
 NT2 arbi reactor  
 NT2 argonaut reactor  
 NT2 argos reactor  
 NT2 athene reactor  
 NT2 jason reactor  
 NT2 lfr reactor  
 NT2 moata reactor  
 NT2 nestor reactor  
 NT2 queen mary college utr-b reactor  
 NT2 ra-1 reactor  
 NT2 rb-2 reactor  
 NT2 rien-1 reactor  
 NT2 srrc-utr-100 reactor  
 NT2 stark reactor  
 NT2 strasbourg-cronenbourg reactor  
 NT2 ufr reactor  
 NT2 ulyse reactor  
 NT2 urr reactor  
 NT2 utr-10-kinki reactor  
 NT2 vpi-utr-10 reactor  
 NT1 astr reactor  
 NT1 atr reactor  
 NT1 atrs reactor  
 NT1 borax-1 reactor  
 NT1 borax-2 reactor  
 NT1 borax-3 reactor  
 NT1 borax-4 reactor  
 NT1 borax-5 reactor  
 NT1 br-02 reactor  
 NT1 br-2 reactor  
 NT1 br-3-vn reactor  
 NT1 bwr type reactors  
 NT2 allens creek-1 reactor  
 NT2 allens creek-2 reactor  
 NT2 bailly-1 reactor  
 NT2 barsebaeck-1 reactor  
 NT2 barsebaeck-2 reactor  
 NT2 barton-1 reactor  
 NT2 barton-2 reactor  
 NT2 barton-3 reactor  
 NT2 barton-4 reactor  
 NT2 bell reactor  
 NT2 big rock point reactor  
 NT2 black fox-1 reactor  
 NT2 black fox-2 reactor  
 NT2 bolsa chica-1 reactor  
 NT2 bolsa chica-2 reactor  
 NT2 bonus reactor  
 NT2 browns ferry-1 reactor  
 NT2 browns ferry-2 reactor  
 NT2 browns ferry-3 reactor  
 NT2 brunsbuettel reactor  
 NT2 brunswick-1 reactor  
 NT2 brunswick-2 reactor  
 NT2 chinshan-1 reactor  
 NT2 chinshan-2 reactor  
 NT2 clinton-1 reactor  
 NT2 clinton-2 reactor  
 NT2 cofrentes reactor  
 NT2 cooper reactor  
 NT2 dodewaard reactor  
 NT2 douglas point-1 reactor  
 NT2 douglas point-2 reactor  
 NT2 dresden-1 reactor  
 NT2 dresden-2 reactor  
 NT2 dresden-3 reactor  
 NT2 duane arnold-1 reactor  
 NT2 ebwr reactor  
 NT2 enel-4 reactor  
 NT2 enrico fermi-2 reactor  
 NT2 err reactor  
 NT2 fitzpatrick reactor  
 NT2 forsmark-1 reactor  
 NT2 forsmark-2 reactor  
 NT2 forsmark-3 reactor  
 NT2 fukushima-1 reactor  
 NT2 fukushima-2 reactor  
 NT2 fukushima-3 reactor  
 NT2 fukushima-4 reactor  
 NT2 fukushima-5 reactor  
 NT2 fukushima-6 reactor  
 NT2 fukushima-ii-1 reactor  
 NT2 fukushima-ii-2 reactor  
 NT2 fukushima-ii-3 reactor  
 NT2 fukushima-ii-4 reactor  
 NT2 garigliano reactor  
 NT2 garona reactor  
 NT2 ge standard reactor  
 NT2 graben-1 reactor  
 NT2 graben-2 reactor  
 NT2 grand gulf-1 reactor  
 NT2 grand gulf-2 reactor  
 NT2 gundremmingen-2 reactor  
 NT2 gundremmingen-3 reactor  
 NT2 hamaoka-1 reactor  
 NT2 hamaoka-2 reactor  
 NT2 hamaoka-3 reactor  
 NT2 hamaoka-4 reactor  
 NT2 hamaoka-5 reactor  
 NT2 hartsville-1 reactor



NT2	hartsville-2 reactor	NT2	tarapur-2 reactor	NT2	cp-6 reactor
NT2	hartsville-3 reactor	NT2	tokai-2 reactor	NT2	crocus reactor
NT2	hartsville-4 reactor	NT2	tsuruga reactor	NT2	democritus reactor
NT2	hatch-1 reactor	NT2	tullnerfeld reactor	NT2	dr-2 reactor
NT2	hatch-2 reactor	NT2	vak reactor	NT2	etrc reactor
NT2	hdr reactor	NT2	vbwr reactor	NT2	etrr-2 reactor
NT2	hope creek-1 reactor	NT2	vermont yankee reactor	NT2	fmrbr reactor
NT3	newbold island-1 reactor	NT2	verplanck-1 reactor	NT2	fmr reactor
NT2	hope creek-2 reactor	NT2	verplanck-2 reactor	NT2	frg-1 reactor
NT3	newbold island-2 reactor	NT2	vk-50 reactor	NT2	frg-2 reactor
NT2	humboldt bay reactor	NT2	wnp-2 reactor	NT2	frj-1 reactor
NT2	isar reactor	NT2	wuergassen reactor	NT2	frm-ii reactor
NT2	jpdr-2 reactor	NT2	zimmer-1 reactor	NT2	frm reactor
NT2	jpdr reactor	NT2	zimmer-2 reactor	NT2	frn reactor
NT2	kaiseraugst reactor	NT1	esada-vesr reactor	NT2	ga siwabessy reactor
NT2	kashiwazaki-kariwa-1 reactor	NT1	etr reactor	NT2	gtr reactor
NT2	kashiwazaki-kariwa-2 reactor	NT1	evsr reactor	NT2	gulf triga-mk-3 reactor
NT2	kashiwazaki-kariwa-3 reactor	NT1	ewa reactor	NT2	hanaro reactor
NT2	kashiwazaki-kariwa-4 reactor	NT1	ewg-1 reactor	NT2	herald reactor
NT2	kashiwazaki-kariwa-5 reactor	NT1	gcre reactor	NT2	hor reactor
NT2	kashiwazaki-kariwa-6 reactor	NT1	getr reactor	NT2	horace reactor
NT2	kashiwazaki-kariwa-7 reactor	NT1	hclwr type reactors	NT2	htr reactor
NT2	krummel reactor	NT1	hfetr reactor	NT2	ian-r1 reactor
NT2	kuosheng-1 reactor	NT1	hfir reactor	NT2	iear-1 reactor
NT2	kuosheng-2 reactor	NT1	hfr reactor	NT2	ir-100 reactor
NT2	la salle county-1 reactor	NT1	igr reactor	NT2	irl reactor
NT2	la salle county-2 reactor	NT1	janus reactor	NT2	irr-1 reactor
NT2	labwr reactor	NT1	jmtr reactor	NT2	irt-2000 djakarta reactor
NT2	laguna verde-1 reactor	NT1	juno reactor	NT2	irt-2000 moscow reactor
NT2	laguna verde-2 reactor	NT1	kamini reactor	NT2	irt-c reactor
NT2	leibstadt reactor	NT1	kuca reactor	NT2	irt-f reactor
NT2	limerick-1 reactor	NT1	kuhfr reactor	NT2	irt reactor
NT2	limerick-2 reactor	NT1	litr reactor	NT2	irt-sofia reactor
NT2	lingen reactor	NT1	lwbr type reactors	NT2	isis reactor
NT2	mendocino-1 reactor	NT1	lwor type reactors	NT2	ivv-2m reactor
NT2	mendocino-2 reactor	NT1	maple reactor	NT2	ivv-7 reactor
NT2	millstone-1 reactor	NT1	maple type reactors	NT2	jen-1 reactor
NT2	montague-1 reactor	NT1	mir reactor	NT2	jen-2 reactor
NT2	montague-2 reactor	NT1	ml-1 reactor	NT2	jen reactor
NT2	montalto di castro-1 reactor	NT1	mnsr type reactors	NT2	jrr-3m reactor
NT2	montalto di castro-2 reactor	NT2	gharr-1 reactor	NT2	jrr-4 reactor
NT2	monticello reactor	NT2	mnsr-ciae reactor	NT2	jules horowitz reactor
NT2	muehleberg reactor	NT2	mnsr-sd reactor	NT2	kur reactor
NT2	nine mile point-1 reactor	NT2	mnsr-sh reactor	NT2	la reina rech-1 reactor
NT2	nine mile point-2 reactor	NT2	mnsr-sz reactor	NT2	lido reactor
NT2	okg-1 reactor	NT2	nirr-1 reactor	NT2	lo aguirre rech-2 reactor
NT2	okg-2 reactor	NT2	parr-2 reactor	NT2	lpr reactor
NT2	okg-3 reactor	NT2	srr-1 reactor	NT2	lprr reactor
NT2	olkiluoto-1 reactor	NT1	mrr reactor	NT2	lr-0 reactor
NT2	olkiluoto-2 reactor	NT1	mtr reactor	NT2	ltir reactor
NT2	onagawa-1 reactor	NT1	murr reactor	NT2	maria reactor
NT2	onagawa-2 reactor	NT1	netr reactor	NT2	maryla reactor
NT2	onagawa-3 reactor	NT1	nhf-5 reactor	NT2	melusine-1 reactor
NT2	oyster creek-1 reactor	NT1	nsrr reactor	NT2	merlin reactor
NT2	pathfinder reactor	NT1	ntr reactor	NT2	minerve reactor
NT2	peach bottom-2 reactor	NT1	nuclear furnace reactor	NT2	mnr reactor
NT2	peach bottom-3 reactor	NT1	orr reactor	NT2	nscr reactor
NT2	perry-1 reactor	NT1	osiris reactor	NT2	nur reactor
NT2	perry-2 reactor	NT1	owr reactor	NT2	opal reactor
NT2	philippsburg-1 reactor	NT1	pbr reactor	NT2	osur reactor
NT2	phipps bend-1 reactor	NT1	pegase reactor	NT2	parr-1 reactor
NT2	phipps bend-2 reactor	NT1	peggy reactor	NT2	phebus reactor
NT2	pilgrim-1 reactor	NT1	perryman-1 reactor	NT2	pik physical model reactor
NT2	quad cities-1 reactor	NT1	perryman-2 reactor	NT2	prpr reactor
NT2	quad cities-2 reactor	NT1	pool type reactors	NT2	prr-1 reactor
NT2	ringhals-1 reactor	NT2	agata reactor	NT2	pstr reactor
NT2	river bend-1 reactor	NT2	apsara reactor	NT2	ptr reactor
NT2	river bend-2 reactor	NT2	armf-1 reactor	NT2	pulstar-buffalo reactor
NT2	rwe-bayernwerk reactor	NT2	astra reactor	NT2	pulstar-raleigh reactor
NT2	shika-1 reactor	NT2	atrc reactor	NT2	pur-1 reactor
NT2	shimane-1 reactor	NT2	avogadro rs-1 reactor	NT2	r2-0 reactor
NT2	shimane-2 reactor	NT2	barn reactor	NT2	ra-6 reactor
NT2	shoreham reactor	NT2	bawtr reactor	NT2	ra-8 reactor
NT2	skagit-1 reactor	NT2	ber-2 reactor	NT2	rana reactor
NT2	skagit-2 reactor	NT2	brr reactor	NT2	rinsc reactor
NT2	sl-1 reactor	NT2	bsr-1 reactor	NT2	ritmo reactor
NT2	susquehanna-1 reactor	NT2	bsr-2 reactor	NT2	rp-10 reactor
NT2	susquehanna-2 reactor	NT2	cabri reactor	NT2	rts-1 reactor
NT2	tarapur-1 reactor	NT2	consort-2 reactor	NT2	rv-1 reactor

NT2	saphir reactor	NT2	byron-2 reactor	NT2	haven-1 reactor
NT2	scarabee reactor	NT2	calhoun-1 reactor	NT3	koshkonong-1 reactor
NT2	siloe reactor	NT2	calhoun-2 reactor	NT2	haven-2 reactor
NT2	silhouette reactor	NT2	callaway-1 reactor	NT3	koshkonong-2 reactor
NT2	slowpoke type reactors	NT2	callaway-2 reactor	NT2	ikata-2 reactor
NT3	slowpoke-alberta reactor	NT2	calvert cliffs-1 reactor	NT2	ikata-3 reactor
NT3	slowpoke-dalhousie reactor	NT2	calvert cliffs-2 reactor	NT2	ikata reactor
NT3	slowpoke-montreal reactor	NT2	catawba-1 reactor	NT2	indian point-1 reactor
NT3	slowpoke-ottawa reactor	NT2	catawba-2 reactor	NT2	indian point-2 reactor
NT3	slowpoke-toronto reactor	NT2	cattenom-1 reactor	NT2	indian point-3 reactor
NT3	slowpoke-wmre reactor	NT2	cattenom-2 reactor	NT2	iran-1 reactor
NT2	spert-4 reactor	NT2	cattenom-3 reactor	NT2	iran-2 reactor
NT2	stek reactor	NT2	cattenom-4 reactor	NT2	isar-2 reactor
NT2	stir reactor	NT2	ce standard reactor	NT2	jamesport-1 reactor
NT2	swierk r-2 reactor	NT2	cherokee-1 reactor	NT2	jamesport-2 reactor
NT2	thetis reactor	NT2	cherokee-2 reactor	NT2	kewaunee reactor
NT2	thor reactor	NT2	cherokee-3 reactor	NT2	koeberg-1 reactor
NT2	toshiba reactor	NT2	chinon-b1 reactor	NT2	koeberg-2 reactor
NT2	tr-1 reactor	NT2	civaux-1 reactor	NT2	kori-1 reactor
NT2	tr-2 reactor	NT2	civaux-2 reactor	NT2	kori-2 reactor
NT2	triton reactor	NT2	comanche peak-1 reactor	NT2	kori-3 reactor
NT2	trr-1 reactor	NT2	comanche peak-2 reactor	NT2	kori-4 reactor
NT2	tz1 reactor	NT2	connecticut yankee reactor	NT2	krsko reactor
NT2	tz2 reactor	NT2	cook-1 reactor	NT2	lemoniz-1 reactor
NT2	uknr reactor	NT2	cook-2 reactor	NT2	lemoniz-2 reactor
NT2	umne-1 reactor	NT2	cruas-2 reactor	NT2	lenin reactor
NT2	umrr reactor	NT2	cruas-3 reactor	NT2	leonid brezhnev reactor
NT2	utrr reactor	NT2	cruas-4 reactor	NT2	lingao-1 reactor
NT2	uvar reactor	NT2	crystal river-3 reactor	NT2	lingao-2 reactor
NT2	uwnr reactor	NT2	crystal river-4 reactor	NT2	loft reactor
NT2	vr-1 reactor	NT2	dampierre-1 reactor	NT2	lucie-1 reactor
NT2	wpir reactor	NT2	dampierre-2 reactor	NT2	lucie-2 reactor
NT2	wsur reactor	NT2	dampierre-3 reactor	NT2	maanshan-1 reactor
NT2	xapr reactor	NT2	dampierre-4 reactor	NT2	maine yankee reactor
NT1	purnima-3 reactor	NT2	davis besse-1 reactor	NT2	malibu-1 reactor
NT1	pwr type reactors	NT2	davis besse-2 reactor	NT2	marble hill-1 reactor
NT2	aguirre reactor	NT2	davis besse-3 reactor	NT2	marble hill-2 reactor
NT2	almaraz-1 reactor	NT2	daya bay-1 reactor	NT2	mc guire-1 reactor
NT2	almaraz-2 reactor	NT2	daya bay-2 reactor	NT2	mc guire-2 reactor
NT2	angra-1 reactor	NT2	diablo canyon-1 reactor	NT2	mh-1a reactor
NT2	angra-2 reactor	NT2	diablo canyon-2 reactor	NT2	midland-1 reactor
NT2	angra-3 reactor	NT2	doel-1 reactor	NT2	midland-2 reactor
NT2	ardennes b-1 reactor	NT2	doel-2 reactor	NT2	mihama-1 reactor
NT2	ardennes b-2 reactor	NT2	doel-3 reactor	NT2	mihama-2 reactor
NT2	ardennes reactor	NT2	doel-4 reactor	NT2	mihama-3 reactor
NT2	arkansas-1 reactor	NT2	efdr-50 reactor	NT2	millstone-2 reactor
NT2	arkansas-2 reactor	NT2	emsland reactor	NT2	millstone-3 reactor
NT2	asco-1 reactor	NT2	erie-1 reactor	NT2	muelheim-kaerlich reactor
NT2	asco-2 reactor	NT2	erie-2 reactor	NT2	mutsu reactor
NT2	atlantic-1 reactor	NT2	farley-1 reactor	NT2	neckar-1 reactor
NT2	atlantic-2 reactor	NT2	farley-2 reactor	NT2	neckar-2 reactor
NT2	basf-1 reactor	NT2	fessenheim-1 reactor	NT2	nep-1 reactor
NT2	basf-2 reactor	NT2	flamanville-1 reactor	NT2	nep-2 reactor
NT2	beaver valley-1 reactor	NT2	flamanville-2 reactor	NT2	neupotz-1 reactor
NT2	beaver valley-2 reactor	NT2	forked river-1 reactor	NT2	neupotz-2 reactor
NT2	bellefonte-1 reactor	NT2	genkai-1 reactor	NT2	nogent sur seine-1 reactor
NT2	bellefonte-2 reactor	NT2	genkai-2 reactor	NT2	nogent sur seine-2 reactor
NT2	belleville sur loire-1 reactor	NT2	genkai-3 reactor	NT2	north anna-1 reactor
NT2	belleville sur loire-2 reactor	NT2	genkai-4 reactor	NT2	north anna-2 reactor
NT2	beznau-1 reactor	NT2	ginna-1 reactor	NT2	north anna-3 reactor
NT2	beznau-2 reactor	NT2	goesgen reactor	NT2	north anna-4 reactor
NT2	biblis-1 reactor	NT2	golfech-1 reactor	NT2	north coast-1 reactor
NT2	biblis-2 reactor	NT2	golfech-2 reactor	NT2	obrigheim reactor
NT2	biblis-3 reactor	NT2	grafenrheinfeld reactor	NT2	oconee-1 reactor
NT2	biblis-4 reactor	NT2	gravelines-1 reactor	NT2	oconee-2 reactor
NT2	blayais-1 reactor	NT2	gravelines-2 reactor	NT2	oconee-3 reactor
NT2	blue hills-1 reactor	NT2	gravelines-3 reactor	NT2	oi-1 reactor
NT2	blue hills-2 reactor	NT2	gravelines-4 reactor	NT2	oi-2 reactor
NT2	borssele reactor	NT2	gravelines-5 reactor	NT2	oi-3 reactor
NT2	br-3 reactor	NT2	gravelines-6 reactor	NT2	oi-4 reactor
NT2	braidwood-1 reactor	NT2	greene county reactor	NT2	oktemberyan-2 reactor
NT2	braidwood-2 reactor	NT2	greenwood-2 reactor	NT2	olkiluoto-3 reactor
NT2	brokdorf reactor	NT2	greenwood-3 reactor	NT2	otto hahn reactor
NT2	bugey-2 reactor	NT2	grohnde reactor	NT2	palisades-1 reactor
NT2	bugey-3 reactor	NT2	hamm-uentrop reactor	NT2	palo verde-1 reactor
NT2	bugey-4 reactor	NT2	harris-1 reactor	NT2	palo verde-2 reactor
NT2	bugey-5 reactor	NT2	harris-2 reactor	NT2	palo verde-3 reactor
NT2	bw standard reactor	NT2	harris-3 reactor	NT2	palo verde-4 reactor
NT2	byron-1 reactor	NT2	harris-4 reactor	NT2	palo verde-5 reactor

NT2	paluel-1 reactor	NT2	tomari-2 reactor	NT3	novovoronezh-1 reactor
NT2	paluel-2 reactor	NT2	tricastin-1 reactor	NT3	novovoronezh-2 reactor
NT2	paluel-3 reactor	NT2	tricastin-4 reactor	NT3	novovoronezh-3 reactor
NT2	paluel-4 reactor	NT2	trillo-1 reactor	NT3	novovoronezh-4 reactor
NT2	pat reactor	NT2	trojan reactor	NT3	novovoronezh-5 reactor
NT2	pebble springs-1 reactor	NT2	tsuruga-2 reactor	NT3	paks-1 reactor
NT2	pebble springs-2 reactor	NT2	turkey point-3 reactor	NT3	paks-2 reactor
NT2	penly-1 reactor	NT2	turkey point-4 reactor	NT3	paks-3 reactor
NT2	perkins-1 reactor	NT2	tva-1 reactor	NT3	paks-4 reactor
NT2	perkins-2 reactor	NT2	tva-2 reactor	NT3	rovno-1 reactor
NT2	perkins-3 reactor	NT2	tyrone-1 reactor	NT3	rovno-2 reactor
NT2	philippsburg-2 reactor	NT2	tyrone-2 reactor	NT3	rovno-3 reactor
NT2	pilgrim-2 reactor	NT2	ulchin-1 reactor	NT3	rovno-4 reactor
NT2	pilgrim-3 reactor	NT2	ulchin-2 reactor	NT3	rovno-5 reactor
NT2	pm-2a reactor	NT2	ulchin-3 reactor	NT3	south ukrainian-1 reactor
NT2	pm-3a reactor	NT2	ulchin-4 reactor	NT3	south ukrainian-2 reactor
NT2	pnpp-1 reactor	NT2	unterweser reactor	NT3	south ukrainian-3 reactor
NT2	point beach-1 reactor	NT2	vahnum-1 reactor	NT3	stendal-1 reactor
NT2	point beach-2 reactor	NT2	vahnum-2 reactor	NT3	tatarian reactor
NT2	prairie island-1 reactor	NT2	vandellos-2 reactor	NT3	temelin-1 reactor
NT2	prairie island-2 reactor	NT2	vogle-1 reactor	NT3	temelin-2 reactor
NT2	qinshan-1 reactor	NT2	vogle-2 reactor	NT3	tianwan-1 reactor
NT2	qinshan-2-1 reactor	NT2	vogle-3 reactor	NT3	zaporozhe-1 reactor
NT2	qinshan-2-2 reactor	NT2	vogle-4 reactor	NT3	zaporozhe-2 reactor
NT2	quanicasse-1 reactor	NT2	waterford-3 reactor	NT3	zaporozhe-3 reactor
NT2	quanicasse-2 reactor	NT2	waterford-4 reactor	NT3	zaporozhe-4 reactor
NT2	rancho seco-1 reactor	NT2	watts bar-1 reactor	NT3	zaporozhe-5 reactor
NT2	remerschen reactor	NT2	watts bar-2 reactor	NT3	zaporozhe-6 reactor
NT2	rheinsberg akw1 reactor	NT2	westinghouse standard reactor	NT2	wyhl-1 reactor
NT2	ringhals-2 reactor	NT2	wnp-1 reactor	NT2	wyhl-2 reactor
NT2	ringhals-3 reactor	NT2	wnp-3 reactor	NT2	yellow creek-1 reactor
NT2	ringhals-4 reactor	NT2	wnp-4 reactor	NT2	yellow creek-2 reactor
NT2	robinson-2 reactor	NT2	wnp-5 reactor	NT2	yonggwang-1 reactor
NT2	rooppur reactor	NT2	wolf creek-1 reactor	NT2	yonggwang-2 reactor
NT2	rowe yankee reactor	NT2	wup-3 reactor	NT2	yonggwang-3 reactor
NT2	s1c prototype reactor	NT2	wup-4 reactor	NT2	yonggwang-4 reactor
NT2	saint alban-1 reactor	NT2	wup-5 reactor	NT2	zion-1 reactor
NT2	saint alban-2 reactor	NT2	wup-6 reactor	NT2	zion-2 reactor
NT2	saint laurent-b1 reactor	NT2	wwer type reactors	NT2	zorita-1 reactor
NT2	salem-1 reactor	NT3	armenian-1 reactor	NT1	r-2 reactor
NT2	salem-2 reactor	NT3	armenian-2 reactor	NT1	ra-5 reactor
NT2	san onofre-1 reactor	NT3	balakovo-1 reactor	NT1	rake-2 reactor
NT2	san onofre-2 reactor	NT3	balakovo-2 reactor	NT1	rg-1m reactor
NT2	san onofre-3 reactor	NT3	balakovo-3 reactor	NT1	safari-1 reactor
NT2	savannah reactor	NT3	balakovo-4 reactor	NT1	sm-2 reactor
NT2	saxton reactor	NT3	blahutovice-1 reactor	NT1	spert-1 reactor
NT2	seabrook-1 reactor	NT3	bohunice v-1 reactor	NT1	spert-2 reactor
NT2	seabrook-2 reactor	NT3	bohunice v-2 reactor	NT1	spert-3 reactor
NT2	selni reactor	NT3	dukovany-1 reactor	NT1	sr-1 reactor
NT2	sendai-1 reactor	NT3	dukovany-2 reactor	NT1	sr-0a reactor
NT2	sendai-2 reactor	NT3	dukovany-3 reactor	NT1	tca reactor
NT2	sequoyah-1 reactor	NT3	dukovany-4 reactor	NT1	triga type reactors
NT2	sequoyah-2 reactor	NT3	greifswald-1 reactor	NT2	aftri reactor
NT2	shippingport reactor	NT3	greifswald-2 reactor	NT2	atpr reactor
NT2	sizewell-b reactor	NT3	greifswald-3 reactor	NT2	colorado triga-mk-3 reactor
NT2	sm-1 reactor	NT3	greifswald-4 reactor	NT2	cornell triga-mk-2 reactor
NT2	sm-1a reactor	NT3	greifswald-5 reactor	NT2	dow triga-mk-1 reactor
NT2	south texas project-1 reactor	NT3	greifswald-6 reactor	NT2	fir-1 reactor
NT2	south texas project-2 reactor	NT3	juragua-1 reactor	NT2	frf-2 reactor
NT2	stade reactor	NT3	kalinin-1 reactor	NT2	frn reactor
NT2	sterling-1 reactor	NT3	kalinin-3 reactor	NT2	gulf triga-mk-3 reactor
NT2	sterling-2 reactor	NT3	kecerovce-1 reactor	NT2	kartini-pnpy reactor
NT2	summer-1 reactor	NT3	khmelnitskij-1 reactor	NT2	lopra reactor
NT2	sundesert-1 reactor	NT3	kola-1 reactor	NT2	nscr reactor
NT2	sundesert-2 reactor	NT3	kola-2 reactor	NT2	ostr reactor
NT2	surry-1 reactor	NT3	kola-3 reactor	NT2	prpr reactor
NT2	surry-2 reactor	NT3	kola-4 reactor	NT2	pstr reactor
NT2	surry-3 reactor	NT3	kozloduy-1 reactor	NT2	rtp reactor
NT2	surry-4 reactor	NT3	kozloduy-2 reactor	NT2	trico reactor
NT2	takahama-1 reactor	NT3	kozloduy-3 reactor	NT2	triga-1-arizona reactor
NT2	takahama-2 reactor	NT3	kozloduy-4 reactor	NT2	triga-1-california reactor
NT2	takahama-3 reactor	NT3	kozloduy-5 reactor	NT2	triga-1-hanford reactor
NT2	takahama-4 reactor	NT3	kozloduy-6 reactor	NT2	triga-1-hanover reactor
NT2	three mile island-1 reactor	NT3	kudankulam-1 reactor	NT2	triga-1-heidelberg reactor
NT2	three mile island-2 reactor	NT3	kudankulam-2 reactor	NT2	triga-1-michigan reactor
NT2	tihange-2 reactor	NT3	loviisa-1 reactor	NT2	triga-2-bandung reactor
NT2	tihange-3 reactor	NT3	loviisa-2 reactor	NT2	triga-2-bangladesh reactor
NT2	tihange reactor	NT3	mochovce-1 reactor	NT2	triga-2-dalat reactor
NT2	tomari-1 reactor	NT3	mochovce-2 reactor	NT2	triga-2-illinois reactor

NT2 triga-2-kansas reactor  
 NT2 triga-2-ljubljana reactor  
 NT2 triga-2-mainz reactor  
 NT2 triga-2-musashi reactor  
 NT2 triga-2-pavia reactor  
 NT2 triga-2-pitesti reactor  
 NT2 triga-2 reactor  
 NT2 triga-2-rikkyo reactor  
 NT2 triga-2-rome reactor  
 NT2 triga-2-seoul reactor  
 NT2 triga-2-vienna reactor  
 NT2 triga-3-la jolla reactor  
 NT2 triga-3-munich reactor  
 NT2 triga-3-salazar reactor  
 NT2 triga-3-seoul reactor  
 NT2 triga-brazil reactor  
 NT2 triga-texas reactor  
 NT2 triga-veterans reactor  
 NT2 ucbr reactor  
 NT2 uwnr reactor  
 NT2 wsur reactor  
 NT1 tsr-2 reactor  
 NT1 twmr reactor  
 NT1 venus reactor  
 NT1 voronezh ast-500 reactor  
 NT1 wntr reactor  
 NT1 wtr reactor  
 NT1 wwr type reactors  
 NT2 budapest training reactor  
 NT2 irt-1 libya reactor  
 NT2 irt-baghdad reactor  
 NT2 lvr-15 reactor  
 NT2 wwr-2 reactor  
 NT2 wwr-k-almaty reactor  
 NT2 wwr-m-kiev reactor  
 NT2 wwr-m-leningrad reactor  
 NT2 wwr-s-bucharest reactor  
 NT2 wwr-s-budapest reactor  
 NT2 wwr-s-cairo reactor  
 NT2 wwr-s-moscow reactor  
 NT2 wwr-s-prague reactor  
 NT2 wwr-s-tashkent reactor  
 NT2 wwr-sm rossendorf reactor  
 NT2 wwr-z reactor  
 NT1 zlfr reactor

**water moderator**

USE water

**WATER POLICY**

INIS: 1992-04-08; ETDE: 1981-08-04

\*BT1 environmental policy  
 RT water resources

**WATER POLLUTION**

For nonradioactive pollution only; for radioactive pollution use CONTAMINATION.

UF thermal pollution (water)  
 BT1 pollution  
 RT acid mine drainage  
 RT buoys  
 RT clean water acts  
 RT dissolved gases  
 RT environmental effects  
 RT environmental exposure  
 RT eutrophication  
 RT fouling  
 RT long-range transport  
 RT particulates  
 RT plumes  
 RT point pollutant sources  
 RT stationary pollutant sources  
 RT waste water  
 RT water pollution abatement  
 RT water pollution control  
 RT water pollution monitors  
 RT water quality  
 RT water use

**WATER POLLUTION ABATEMENT**

INIS: 1992-03-11; ETDE: 1976-07-07

The prevention of formation of pollutants at the source.

SF prevention of significant deterioration  
 SF psd  
 BT1 pollution abatement  
 RT ground cover  
 RT water pollution  
 RT water reclamation

**WATER POLLUTION CONTROL**

INIS: 1991-08-16; ETDE: 1977-03-04

The removal or management of pollutants after they are formed by a source.

\*BT1 pollution control  
 RT natural attenuation  
 RT oil pollution containment  
 RT rotating disk removal systems  
 RT sorbent recovery systems  
 RT water pollution  
 RT water treatment plants  
 RT water use  
 RT weir oil recovery systems

**WATER POLLUTION MONITORS**

INIS: 1992-01-15; ETDE: 1978-01-23

UF monitors (water pollution)  
 \*BT1 monitors  
 RT chemical effluents  
 RT liquid wastes  
 RT monitoring  
 RT water pollution

**WATER PUMPS**

INIS: 1993-06-08; ETDE: 1979-03-28

\*BT1 pumps  
 NT1 solar water pumps

**WATER QUALITY**

INIS: 1991-08-16; ETDE: 1975-10-28

BT1 environmental quality  
 RT clean water acts  
 RT gas bubble disease  
 RT water pollution  
 RT water reclamation  
 RT water treatment

**WATER RECLAMATION**

INIS: 1992-03-11; ETDE: 1981-05-18

RT aesthetics  
 RT public health  
 RT water pollution abatement  
 RT water quality  
 RT water resources

**WATER REMOVAL**

INIS: 1991-08-14; ETDE: 1975-11-28

(Prior to August 1991, this concept was indexed to DEHYDRATION.)

UF dewatering  
 BT1 removal  
 RT coal preparation  
 RT dehydration  
 RT dewatering equipment

**WATER REQUIREMENTS**

INIS: 1982-12-03; ETDE: 1976-07-07

UF water demand  
 BT1 demand  
 RT drought resistance  
 RT water  
 RT water resources  
 RT water use

**WATER RESERVOIRS**

UF reservoirs (water)  
 BT1 surface waters  
 NT1 cooling ponds  
 RT aquicludes

RT dams  
 RT energy storage  
 RT energy storage systems  
 RT fresh water  
 RT lakes  
 RT pumped storage power plants  
 RT reservoir engineering  
 RT storage  
 RT water resources  
 RT water supply  
 RT water use

**WATER RESOURCES**

1992-08-18

(Until January 1983, this concept was indexed by coordination of WATER and RESERVES; and from then until August 1992 by coordination of WATER and RESOURCES.)

BT1 resources  
 RT ground water  
 RT surface waters  
 RT water  
 RT water policy  
 RT water reclamation  
 RT water requirements  
 RT water reservoirs  
 RT water rights  
 RT water supply  
 RT water use  
 RT water wells

**WATER RIGHTS**

INIS: 1992-08-18; ETDE: 1976-03-22

Rights to the use of water.

RT legal aspects  
 RT property rights  
 RT water  
 RT water resources

**WATER SATURATION**

INIS: 1992-07-21; ETDE: 1977-01-28

Degree of filling of reservoir pore structure by reservoir water.

BT1 saturation  
 RT gas saturation  
 RT oil saturation  
 RT reservoir rock

**water solutions**

USE aqueous solutions

**WATER SOURCE HEAT PUMPS**

INIS: 2000-04-12; ETDE: 1979-07-24

BT1 heat pumps  
 RT air conditioning  
 RT space heating

**WATER SPRINGS**

INIS: 2000-01-26; ETDE: 1980-06-06

Places where ground water flows naturally from a rock or the soil onto the land surface or into a body of surface water.

UF springs (water)

NT1 mineral springs  
 NT1 thermal springs  
 NT2 hot springs  
 NT3 geysers  
 NT2 warm springs  
 RT ground water  
 RT hydrology

**WATER SUPPLY**

INIS: 1986-05-26; ETDE: 1979-09-26

To be used in the sense of a public utility or other engineered system, e.g. an irrigation system, rather than a natural system.

UF water distribution  
 RT plumbing  
 RT public utilities  
 RT reactor cooling systems  
 RT water reservoirs

RT water resources  
 RT water utilities  
 RT water wells

**WATER TABLES**

INIS: 1987-12-03; ETDE: 1980-03-04

RT aquifers  
 RT ground water  
 RT hydrology

**WATER TREATMENT**

INIS: 1982-12-07; ETDE: 1976-07-07

NT1 steam stripping  
 RT bioreactors  
 RT deaerators  
 RT dissolved gases  
 RT drinking water  
 RT waste water  
 RT water quality  
 RT water treatment plants

**WATER TREATMENT PLANTS**

INIS: 1992-05-26; ETDE: 1977-08-09

RT water pollution control  
 RT water treatment

**WATER USE**

INIS: 1984-02-22; ETDE: 1983-07-20

RT environment  
 RT external zones  
 RT irrigation  
 RT land use  
 RT regional analysis  
 RT water pollution  
 RT water pollution control  
 RT water requirements  
 RT water reservoirs  
 RT water resources

**WATER UTILITIES**

INIS: 1993-06-02; ETDE: 1981-01-27

BT1 public utilities  
 RT water supply

**WATER VAPOR**

\*BT1 vapors  
 RT fog  
 RT humidity  
 RT steam  
 RT transpiration

**WATER WALLS**

INIS: 2000-04-12; ETDE: 1980-03-04

\*BT1 passive solar heating systems  
 BT1 walls  
 RT sensible heat storage

**WATER WAVES**

INIS: 1992-09-08; ETDE: 1976-08-04

BT1 gravity waves  
 NT1 tsunamis  
 RT air-water interactions  
 RT hurricanes  
 RT internal waves  
 RT seas  
 RT storms  
 RT tide  
 RT water currents  
 RT wave energy converters  
 RT wave forces  
 RT wave power

**WATER WELLS**

INIS: 1994-06-27; ETDE: 1981-01-30

(Until June 1994 this concept was indexed by WELLS.)

BT1 wells  
 RT water resources  
 RT water supply

**WATER WHEELS**

INIS: 2000-04-12; ETDE: 1980-02-11

UF waterwheels  
 BT1 wheels  
 RT hydraulic turbines  
 RT hydroelectric power plants

**waterborne particles**

INIS: 1991-08-14; ETDE: 1981-09-08

USE particulates

**waterborne particulates**

INIS: 1991-08-14; ETDE: 2002-05-24

USE particulates

**WATERFLOODING**

INIS: 1992-07-10; ETDE: 1976-03-11

Method of pressure maintenance and secondary recovery in which water is injected through input (injection) wells to drive oil to the production wells.

SF polymer flooding  
 BT1 fluid injection  
 NT1 caustic flooding  
 RT petroleum  
 RT well stimulation

**WATERFORD-3 REACTOR**

Entergy Operations, Inc., Taft, Louisiana, USA.

\*BT1 pwr type reactors

**WATERFORD-4 REACTOR**

Taft, Louisiana, USA. Unit never ordered.

\*BT1 pwr type reactors

**WATERPROOFING**

INIS: 1999-10-08; ETDE: 1977-01-28

RT coatings  
 RT films  
 RT protective coatings  
 RT sealing materials  
 RT seals  
 RT surface coating  
 RT surface properties  
 RT surface treatments  
 RT wettability

**WATERSHEDS**

INIS: 1997-06-19; ETDE: 1976-04-19

The drainage areas or catchment basins of streams.

UF catchment basins  
 NT1 colorado river basin  
 NT1 columbia river basin  
 NT2 pasco basin  
 NT1 connecticut river basin  
 NT1 great lakes basin  
 NT1 mississippi river basin  
 NT1 missouri river basin  
 NT1 monongahela river basin  
 NT1 north platte river basin  
 NT1 piceance creek basin  
 NT1 potomac river basin  
 NT1 powder river basin  
 NT1 tennessee valley region  
 NT1 yellow creek basin  
 RT complex terrain  
 RT drainage  
 RT imperial valley  
 RT land use  
 RT rivers  
 RT runoff  
 RT streams  
 RT surface waters  
 RT valleys

**waterwall furnaces**

INIS: 2000-04-12; ETDE: 1981-06-13

USE waterwall incinerators

**WATERWALL INCINERATORS**

INIS: 2000-04-12; ETDE: 1981-06-13

UF waterwall furnaces  
 BT1 incinerators  
 RT steam generators

**waterwheels**

INIS: 2000-04-12; ETDE: 1980-02-11

USE water wheels

**watson method**

USE sommerfeld-watson theory

**watt distribution**

USE watt fission spectrum

**watt fission source**

USE watt fission spectrum

**WATT FISSION SPECTRUM**

UF watt distribution  
 UF watt fission source  
 \*BT1 neutron spectra  
 RT fission  
 RT prompt neutrons  
 RT thermal fission  
 RT thermal neutrons

**watt-hour meters**

INIS: 1992-07-22; ETDE: 1978-01-23

USE power meters

**WATT POWER RANGE**

INIS: 1988-04-15; ETDE: 1989-08-10

BT1 power range  
 NT1 power range 01-10 w  
 NT1 power range 10-100 w  
 NT1 power range 100-1000 w

**wattage**

INIS: 1985-01-18; ETDE: 1977-09-19

USE power input

**WATTS BAR-1 REACTOR**

TVA, Spring City, Tennessee, USA.

\*BT1 pwr type reactors

**WATTS BAR-2 REACTOR**

TVA, Spring City, Tennessee, USA.

Indefinitely deferred; construction stopped in early 1990s.

\*BT1 pwr type reactors

**WAVE ENERGY CONVERTERS**

1992-09-25

Devices for converting energy of water waves.

RT energy conversion  
 RT seas  
 RT water waves

**WAVE EQUATIONS**

INIS: 1982-10-29; ETDE: 1976-09-14

\*BT1 partial differential equations  
 NT1 dirac equation  
 NT1 klein-gordon equation  
 NT1 schrodinger equation  
 RT rarita-schwinger theory

**WAVE FORCES**

INIS: 2000-04-12; ETDE: 1977-03-08

Forces exerted on mechanical structures by waves.

RT storms  
 RT water waves  
 RT wave power

**WAVE FORMS**

UF waveforms  
 RT electromagnetic radiation  
 RT polarization  
 RT wave propagation

**WAVE FUNCTIONS**

- BT1 functions
- RT brillouin theorem
- RT eigenfunctions
- RT fractional-parentage coefficients
- RT hidden variables
- RT hybridization
- RT muffin-tin potential
- RT projection operators
- RT quantum entanglement
- RT quantum wells
- RT schrodinger equation
- RT slater method
- RT sudden approximation

**WAVE PACKETS**

- RT wave propagation

**WAVE POWER**

1982-12-07

- BT1 power
- \*BT1 renewable energy sources
- RT water waves
- RT wave forces

**WAVE PROPAGATION**

1996-07-08

(Prior to August 1996 STAPP THEORY was a valid ETDE descriptor.)

- UF propagation (wave)
- SF stapp theory
- SF stapp-ypsilantis-metropolis theory
- RT amplitudes
- RT bifurcation
- RT fermat principle
- RT huygens principle
- RT interference
- RT internal waves
- RT mode control
- RT mode conversion
- RT phase velocity
- RT plasma surface waves
- RT polarization
- RT refraction
- RT refractive index
- RT standing waves
- RT travelling waves
- RT wave forms
- RT wave packets
- RT wavelengths
- RT zero sound

**waveforms**

INIS: 2000-04-12; ETDE: 1983-05-21

- USE wave forms

**WAVEGUIDES**

- NT1 helical waveguides
- RT cyclic accelerators
- RT electrical equipment
- RT gratings
- RT microwave equipment
- RT standing waves
- RT travelling waves

**wavelength dependence**

INIS: 1984-04-04; ETDE: 2002-05-24

- USE frequency dependence

**WAVELENGTHS**

INIS: 1998-02-26; ETDE: 1975-09-12

If the frequency of the wave is known, see the descriptor for the specific frequency range listed under FREQUENCY RANGE.

(Prior to July 1986 FREQUENCY RANGE was used for this concept.)

- NT1 de broglie wavelength
- RT frequency range
- RT infrared radiation
- RT standing waves
- RT wave propagation

**waves (shock)**

- USE shock waves

**waves (standing)**

- USE standing waves

**waves (travelling)**

- USE travelling waves

**waw**

INIS: 1988-02-02; ETDE: 2002-05-24

- USE wackersdorf reprocessing plant

**WAXES**

1997-06-17

- UF montan waxes
- UF santowax
- \*BT1 other organic compounds
- NT1 carbowax
- NT1 paraffin
- RT dewaxing

**way of life**

INIS: 2000-04-05; ETDE: 1978-11-14

(From November 1978 till March 1997 LIFE STYLES and QUALITY OF LIFE were valid ETDE descriptors.)

- SEE behavior
- SEE standard of living

**way-wigner formula**

1996-07-15

(Until June 1996 this was a valid descriptor.)

- SEE beta decay

**waz 16**

INIS: 2000-04-12; ETDE: 1979-08-09

- USE nickel base alloys

**weak boson**

2000-03-29

- SEE intermediate vector bosons

**WEAK CHARGED CURRENTS**

INIS: 1976-08-17; ETDE: 1976-11-01

- \*BT1 charged currents
- RT weak neutral currents

**WEAK-COUPPLING MODEL**

- \*BT1 nuclear models
- RT coupling
- RT particle-hole model
- RT shell models
- RT strong-coupling model

**WEAK HADRONIC DECAY**

INIS: 1978-02-23; ETDE: 1978-05-01

Decay of hadrons due to weak interactions.

- UF non-leptonic decay
- UF nonleptonic decay
- \*BT1 weak particle decay
- RT semileptonic decay
- RT weak interactions

**WEAK INTERACTIONS**

1996-07-18

(Prior to March 1997 FEINBERG-PAIS THEORY was a valid ETDE descriptor.)

- SF feinberg-pais theory
- SF peratization procedure
- \*BT1 basic interactions
- NT1 fermi interactions
- NT1 leptonic decay
- RT cabibbo angle
- RT charged currents
- RT electron-quark interactions
- RT goldberger-treiman relation
- RT grand unified theory
- RT lepton-hadron interactions
- RT lepton-lepton interactions
- RT neutral currents
- RT neutrino oscillation

- RT photon-lepton interactions
- RT second-class currents
- RT standard model
- RT weak hadronic decay
- RT weak neutral currents
- RT weak particle decay
- RT weinberg angle

**WEAK NEUTRAL CURRENTS**

1995-08-10

- \*BT1 neutral currents
- RT weak charged currents
- RT weak interactions
- RT weyl unified theory

**WEAK PARTICLE DECAY**

INIS: 1978-02-23; ETDE: 1978-05-01

- \*BT1 particle decay
- NT1 leptonic decay
- NT1 semileptonic decay
- NT1 weak hadronic decay
- RT radiative decay
- RT weak interactions

**WEAKLY IONIZED GASES**

Ionization factor under 10(-4).

- \*BT1 ionized gases

**WEAPONS**

INIS: 2000-04-12; ETDE: 1975-12-16

- NT1 biological warfare agents
- NT1 bombs
- NT1 chemical warfare agents
- NT1 directed-energy weapons
- NT2 laser weapons
- NT1 nuclear weapons
- NT2 enhanced radiation weapons
- NT2 little boy
- RT ammunition
- RT arms control
- RT penetrators

**WEAR**

- RT abrasion
- RT bearings
- RT erosion
- RT friction
- RT gears
- RT grinding
- RT mechanical tests
- RT rolling friction
- RT tribology
- RT wear resistance

**WEAR RESISTANCE**

- BT1 mechanical properties
- RT gears
- RT wear

**WEATHER**

- RT atmospheric precipitations
- RT climates
- RT clouds
- RT droughts
- RT forecasting
- RT frost
- RT hail
- RT hurricanes
- RT meteorology
- RT natural disasters
- RT seasons
- RT storms
- RT tornadoes
- RT wind

**WEATHERING**

INIS: 1999-01-21; ETDE: 1976-02-19

Physical disintegration and chemical decomposition (as of earthy and rocky materials) on exposure to atmospheric agents.

- RT aging
- RT corrosion

RT decomposition

**WEATHERIZATION**

INIS: 1997-06-19; ETDE: 1979-07-18

Protection from the effects of weather.

SF caulking

RT buildings

RT storm doors

RT storm windows

RT thermal insulation

RT weatherstripping

**WEATHERSTRIPPING**

INIS: 2000-04-12; ETDE: 1977-06-21

BT1 materials

RT air infiltration

RT gaskets

RT thermal insulation

RT weatherization

**web growth method**

INIS: 2000-04-12; ETDE: 1980-02-11

USE dendritic web growth method

**WEBSITES**

2006-11-29

BT1 document types

**wecs**

INIS: 1991-08-16; ETDE: 1981-08-04

Wind energy conversion systems.

USE wind turbines

**WEDDELL SEA**

INIS: 1992-06-04; ETDE: 1984-08-06

An arm of the southern Atlantic Ocean in Antarctica.

\*BT1 antarctic ocean

\*BT1 atlantic ocean

**WEEDS**

BT1 plants

RT gramineae

**weevils**

USE beetles

**wega device**

INIS: 1977-06-13; ETDE: 2002-05-24

USE wega stellarator

**WEGA STELLARATOR**

UF wega device

UF wega tokamak

\*BT1 stellarators

RT tokamak devices

**wega tokamak**

INIS: 1977-06-13; ETDE: 2002-05-24

USE wega stellarator

**WEIERSTRASS FUNCTIONS**

INIS: 2000-04-12; ETDE: 1976-01-23

BT1 functions

RT mathematics

**weighing**

(From February 1978 till March 1997

WEIGHT MEASUREMENT was used for this concept in ETDE.)

USE weight

**WEIGHT**

(From February 1978 till March 1997

WEIGHT MEASUREMENT was a valid ETDE descriptor.)

UF weighing

UF weight measurement

RT density

RT mass

RT molecular weight

RT weight indicators

**WEIGHT INDICATORS**

BT1 measuring instruments

NT1 balances

NT2 microbalances

RT densimeters

RT weight

**weight measurement**

INIS: 2000-04-12; ETDE: 1978-02-14

(Prior to March 1997 this was a valid ETDE descriptor.)

USE weight

**WEIGHTING FUNCTIONS**

BT1 functions

RT kriging

RT statistics

**WEIGHTLESSNESS**

INIS: 1999-07-30; ETDE: 1981-12-21

UF zero gravity

RT gravitation

RT space flight

**WEIL EQUATION**

BT1 equations

RT spin

**WEINBERG ANGLE**

INIS: 1995-08-10; ETDE: 1985-07-23

A parameter in the standard model of the electroweak interaction that is used to describe neutral-current weak interactions.

UF electroweak mixing angle

RT charged-current interactions

RT intermediate vector bosons

RT mixing ratio

RT neutral-current interactions

RT standard model

RT weak interactions

**weinberg lepton model**

1995-08-10

(Until July 1995 this was a valid term.)

USE weinberg-salam gauge model

**weinberg model**

1995-08-10

(Prior to November 1995 WEINBERG LEPTON MODEL was used for this concept in ETDE.)

USE weinberg-salam gauge model

**WEINBERG-SALAM GAUGE****MODEL**

INIS: 1995-08-10; ETDE: 1976-10-13

(Until July 1995 this concept was indexed by WEINBERG LEPTON MODEL.)

UF electroweak interaction model

UF electroweak model

UF salam-weinberg gauge model

UF standard electroweak model

UF weinberg lepton model

UF weinberg model

\*BT1 unified-field theories

\*BT1 unified gauge models

RT grand unified theory

RT quantum flavordynamics

RT standard model

**WEIR OIL RECOVERY SYSTEMS**

INIS: 2000-04-12; ETDE: 1978-01-23

\*BT1 pollution control equipment

RT oil spills

RT water pollution control

**WEISSENBERG METHOD**

RT rotating crystal method

**WEISSKOPF MODEL**

\*BT1 evaporation model

**weizsaecker-fermi formula**

USE weizsaecker formula

**WEIZSAECKER FORMULA**

UF bethe-weizsaecker relation

UF weizsaecker-fermi formula

RT liquid drop model

RT mass number

**WELDABILITY**

RT welding

**WELDED JOINTS**

(From January 1975 until March 1996 LAP

WELDS was a valid ETDE descriptor.)

UF butt welds

UF lap welds

UF seam welds

UF spot welds

UF welds

BT1 joints

RT welding

**WELDING**

All endothermic processes for material joining.

UF fusion (welding)

UF seam welding

UF spot welding

UF stud welding

\*BT1 joining

NT1 arc welding

NT2 gas metal-arc welding

NT3 gas tungsten-arc welding

NT2 plasma arc welding

NT2 shielded metal-arc welding

NT2 submerged arc welding

NT1 brazing

NT1 diffusion welding

NT1 electron beam welding

NT1 electrosag welding

NT1 explosion welding

NT1 forge welding

NT1 friction welding

NT1 gas welding

NT1 induction welding

NT1 laser welding

NT1 magnetic force welding

NT1 resistance welding

NT2 flash welding

NT1 soldering

NT1 ultrasonic welding

NT1 vacuum welding

RT filler metals

RT heat affected zone

RT melting

RT metallurgical flux

RT self-welding

RT thermite process

RT weldability

RT welded joints

RT welding machines

RT welding rods

**welding fluxes**

(Prior to March 1997 this was a valid ETDE descriptor.)

USE metallurgical flux

**WELDING MACHINES**

RT welding

RT welding rods

**WELDING RODS**

RT welding

RT welding machines

**welds**

USE welded joints

**well bore damage**

INIS: 2000-04-12; ETDE: 1983-01-21

USE formation damage

**WELL CASINGS**

1992-05-26

UF casings (well)

BT1 equipment

RT cementing

RT pipes

RT wells

**WELL COMPLETION**

INIS: 1992-09-03; ETDE: 1976-03-11

*Final sealing-off of a drilled well, after drilling apparatus is removed, with valving, safety, and flow-control devices.*

RT cementing

RT grouting

RT hydraulic equipment

RT natural gas wells

RT oil wells

RT perforation

RT propping agents

RT sand consolidation

RT well drilling

RT wellheads

**WELL DRILLING**

1992-02-21

BT1 drilling

RT cuttings removal

RT directional drilling

RT drilling equipment

RT drilling rigs

RT drills

RT exploratory wells

RT geothermal wells

RT hydraulic equipment

RT mwd systems

RT rock drilling

RT rotary drilling

RT rotary drills

RT spark drills

RT well completion

RT wells

**WELL INJECTION EQUIPMENT**

INIS: 2000-04-12; ETDE: 1984-03-19

\*BT1 field production equipment

RT natural gas fields

RT natural gas wells

RT oil fields

RT oil wells

**WELL LOGGING***Detailed recording of a physical property of a well or borehole as a function of depth.*

UF hydrocarbon logging

NT1 caliper logging

NT1 chemical logging

NT1 dipmeter logging

NT1 electric logging

NT2 induced polarization logging

NT2 induction logging

NT2 resistivity logging

NT2 sp logging

NT1 gravity logging

NT1 nuclear magnetic logging

NT1 production logging

NT1 radioactivity logging

NT2 gamma-gamma logging

NT2 gamma logging

NT2 neutron logging

NT3 neutron-gamma logging

NT3 neutron-neutron logging

NT2 radioactive tracer logging

NT2 x-ray fluorescence logging

NT1 sonic logging

NT1 temperature logging

RT boreholes

RT borescopes

RT drill cores

RT geophysical surveys

RT mwd systems

RT well logging equipment

**WELL LOGGING EQUIPMENT**

INIS: 1980-04-02; ETDE: 1979-03-27

*Limited to equipment based on nuclear techniques or used in exploration of materials of nuclear interest.*

BT1 equipment

RT geothermal exploration

RT mwd systems

RT natural gas deposits

RT petroleum deposits

RT probes

RT radiation detectors

RT radiation sources

RT well logging

**well maintenance**

INIS: 1992-03-05; ETDE: 1981-05-18

USE well servicing

**WELL PRESSURE**

INIS: 2000-01-24; ETDE: 1978-08-08

UF bottom-hole pressure

BT1 reservoir pressure

RT geothermal wells

RT natural gas wells

**well reconditioning**

INIS: 1992-03-05; ETDE: 1981-05-18

USE well servicing

**WELL RECOVERY EQUIPMENT**

INIS: 2000-04-12; ETDE: 1984-03-19

\*BT1 field production equipment

RT natural gas fields

RT natural gas wells

RT oil fields

RT oil wells

**WELL SERVICING**

INIS: 1992-03-05; ETDE: 1981-05-18

UF well maintenance

UF well reconditioning

RT natural gas wells

RT oil wells

RT scrapers

RT well stimulation

**well shooting**

INIS: 2000-04-12; ETDE: 1977-01-28

USE explosive stimulation

**well skin effect**

INIS: 2000-04-12; ETDE: 1983-01-21

USE formation damage

**WELL SPACING**

INIS: 2000-04-12; ETDE: 1976-07-07

*Area location and interrelationship between wells, such as producing oil, natural gas, or geothermal wells in a field or wells used for radioactive wastes; may be calculated for the maximum ultimate production from a given reservoir.*

RT geothermal fields

RT natural gas fields

RT oil fields

**WELL STIMULATION**

1999-04-16

*One of the techniques to increase oil or gas reservoir production such as acidizing, fracturing, controlled underground explosions, or various cleaning techniques.*

BT1 stimulation

NT1 explosive stimulation

RT acidization

RT carbon dioxide injection

RT displacement fluids

RT enhanced recovery

RT fluid injection

RT fracturing fluids

RT gas injection

RT hydraulic fracturing

RT microemulsion flooding

RT microemulsions

RT natural gas wells

RT oil wells

RT steam injection

RT waterflooding

RT well servicing

**WELL TEMPERATURE**

INIS: 1992-07-21; ETDE: 1978-12-11

BT1 reservoir temperature

RT temperature measurement

**WELLHEAD PRICES**

INIS: 1992-04-09; ETDE: 1979-06-06

*Prices paid at the wellhead for gas or oil produced.*

BT1 prices

RT natural gas wells

RT oil wells

**WELLHEADS**

INIS: 1992-04-09; ETDE: 1977-01-28

UF christmas trees

\*BT1 field production equipment

RT geothermal wells

RT natural gas wells

RT oil wells

RT well completion

**WELLMAN-GALUSHA PROCESS**

2000-04-12

*Crushed coal and oxygen-steam mixture are introduced through revolving grate at bottom of gasifier available with or without agitator. Raw gas of 270 btu/scf is produced.*

\*BT1 coal gasification

**WELLMAN-INCANDESCENT PROCESS**

INIS: 2000-04-12; ETDE: 1978-04-27

*This two-stage gasifier is nearly identical to the IFE two-stage gasifier that was commercially available until the late 1950's from the International Furnace Equipment Co. Ltd.*

\*BT1 coal gasification

RT gas generators

**wellman-lord process**

2000-04-12

USE w-l sulfur dioxide recovery process

**WELLS**

1976-05-07

NT1 abandoned wells

NT1 disposal wells

NT1 dry holes

NT1 exploratory wells

NT1 gas condensate wells

NT1 geothermal wells

NT1 injection wells

NT1 natural gas wells

NT1 oil wells

NT1 water wells

RT blowouts

RT boreholes

RT drilling

RT formation damage

RT perforation

RT well casings

RT well drilling



**welton method**

USE feynman method

**WENDELL-AMEDEE HOT SPRINGS**

INIS: 2000-04-12; ETDE: 1985-12-13

BT1 kgra  
RT california  
RT geothermal fields

**WENDELSTEIN-2B STELLARATOR**

INIS: 1976-07-06; ETDE: 1976-08-25

SF w stellarators  
\*BT1 stellarators

**WENDELSTEIN-7 STELLARATOR**

SF w stellarators  
\*BT1 stellarators

**WENDS**

INIS: 1979-12-20; ETDE: 1980-01-24

World ENergy Data System.

UF world energy data system  
BT1 information systems  
RT energy policy

**WENRA**

INIS: 1999-04-28; ETDE: 1999-05-03

Western European Nuclear Regulators Association.

BT1 international organizations

**wentzel-kramers-brillouin approximation**

USE wkb approximation

**west coast**

INIS: 1992-06-04; ETDE: 1979-12-10

(Prior to December 1991 this was a valid ETDE descriptor.)

USE us west coast

**west germany**

INIS: 2000-04-12; ETDE: 1979-05-25

USE federal republic of germany

**WEST INDIES**

BT1 islands  
NT1 bahama islands  
NT1 greater antilles  
NT2 cuba  
NT2 hispaniola  
NT3 dominican republic  
NT3 haiti  
NT2 jamaica  
NT2 puerto rico  
NT1 lesser antilles  
NT2 antigua and barbuda  
NT2 barbados  
NT2 grenada  
NT2 martinique  
NT2 netherlands antilles  
NT2 saint kitts and nevis  
NT2 trinidad and tobago  
NT2 virgin islands  
NT1 saint lucia  
NT1 saint vincent and the grenadines  
RT caribbean sea  
RT latin america

**WEST VALLEY PROCESSING PLANT**

\*BT1 fuel reprocessing plants

**WEST VALLEY UF6 FACILITY**

INIS: 1985-07-19; ETDE: 1976-08-24

\*BT1 feed materials plants

**WEST VIRGINIA**

\*BT1 usa  
RT monongahela river basin  
RT ohio river  
RT potomac river

RT potomac river basin

**WESTERN AREA POWER ADMINISTRATION**

INIS: 1996-07-16; ETDE: 1980-03-29

UF wapa  
\*BT1 us doe  
RT electric power

**WESTERN AUSTRALIA**

\*BT1 australia  
RT yeelirrie deposit

**WESTERN EUROPE**

INIS: 1995-04-03; ETDE: 1993-08-31

(Prior to July 1991 this was a valid ETDE descriptor. From July 1991 to August 1993 this concept was indexed to EUROPE in ETDE.)

BT1 europe  
NT1 austria  
NT1 belgium  
NT1 federal republic of germany  
NT1 france  
NT2 reunion island  
NT1 greece  
NT1 holy see  
NT1 iceland  
NT1 ireland  
NT1 italy  
NT2 appennines  
NT2 sicily  
NT1 luxembourg  
NT1 malta  
NT1 monaco  
NT1 netherlands  
NT1 portugal  
NT2 azores islands  
NT1 san marino  
NT1 scandinavia  
NT2 denmark  
NT2 finland  
NT2 norway  
NT2 sweden  
NT1 spain  
NT2 canary islands  
NT1 switzerland  
NT1 united kingdom

**western new york nuclear research reactor**

1993-11-10

USE pulstar-buffalo reactor

**western region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

**WESTERN US OVERTHRUST BELT**

INIS: 2000-04-12; ETDE: 1982-07-27

UF overthrust belt  
UF rocky mountain overthrust belt  
RT idaho  
RT montana  
RT natural gas deposits  
RT petroleum deposits  
RT utah  
RT wyoming

**WESTINGHOUSE GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1979-02-23

The process involves two stages: fluidized-bed gasifier and recirculating-bed devolatilizer.

\*BT1 coal gasification  
RT krw gasification process

**westinghouse nuclear training reactor**

INIS: 1993-11-10; ETDE: 1980-03-04

USE wnt reactor

**WESTINGHOUSE RECYCLE FUELS PLANT**

\*BT1 fuel fabrication plants  
\*BT1 fuel reprocessing plants  
RT fuel cycle

**WESTINGHOUSE STANDARD REACTOR**

1975-10-29

USA.

(Prior to 1975, PWR/41 TYPE REACTORS was used.)

UF pwr/41 type reactors  
\*BT1 pwr type reactors  
RT bopssar standard plant  
RT gibbsar standard plant

**westinghouse testing reactor**

USE wtr reactor

**westvaco process**

2000-04-12

Process uses dry activated carbon to remove sulfur dioxide from waste gases.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**WET ASHING**

UF ashing (wet)  
RT combustion  
RT sample preparation  
RT waste processing

**wet deposition**

INIS: 2000-04-12; ETDE: 1980-01-15

USE washout

**WET OXIDATION PROCESSES**

INIS: 1994-07-01; ETDE: 1984-10-10

\*BT1 waste processing  
RT liquid wastes  
RT oxidation

**WET STORAGE**

INIS: 1996-04-16; ETDE: 1997-05-29

BT1 storage  
RT dry storage  
RT radioactive waste storage  
RT spent fuel storage

**wet-type cooling towers**

2000-04-12

USE cooling towers  
USE open-cycle cooling systems

**WETLANDS**

INIS: 1992-05-08; ETDE: 1981-04-17

UF peatlands  
\*BT1 aquatic ecosystems  
NT1 marshes  
NT1 swamps  
RT river deltas  
RT surface waters

**WETTABILITY**

RT surface properties  
RT waterproofing  
RT wetting agents

**WETTING AGENTS**

BT1 surfactants  
NT1 detergents  
NT2 pluronics  
RT wettability

**WETTING HEAT**

INIS: 2000-04-12; ETDE: 1984-11-08

Heat change that occurs when a powder is wet by a liquid.

- UF heat of wetting
- RT absorption heat
- RT reaction heat

**weyl field**

USE weyl unified theory

**WEYL UNIFIED THEORY**

- UF weyl field
- \*BT1 unified-field theories
- RT electromagnetic fields
- RT gravitational fields
- RT weak neutral currents

**whales**

INIS: 1991-09-30; ETDE: 1981-06-15

USE cetaceans

**WHEAT**

- UF triticum
- \*BT1 cereals

**WHEELS**

INIS: 2000-01-24; ETDE: 1978-12-28

- NT1 water wheels
- RT gears
- RT tires
- RT vehicles

**WHETSTONE OPERATION**

INIS: 2000-04-12; ETDE: 1979-11-23

- \*BT1 nuclear explosions
- \*BT1 underground explosions
- RT contained explosions

**WHEY**

INIS: 1993-07-19; ETDE: 1978-08-08

Watery part of milk separated from the curd in the process of making cheese.

- \*BT1 milk products
- RT cheese
- RT food industry
- RT milk

**WHISKERS**

- \*BT1 monocrystals

**WHISTLER INSTABILITY**

INIS: 1988-11-16; ETDE: 1985-10-25

- UF whistler mode
- \*BT1 plasma macroinstabilities
- RT beam-plasma systems
- RT plasma waves

**whistler mode**

INIS: 1988-11-16; ETDE: 2002-05-24

USE whistler instability

**WHISTLERS**

- \*BT1 radio noise
- RT atmospheric
- RT auroral hiss
- RT lightning

**white copper**

1996-06-28

(Prior to July 1996 GERMAN SILVER was a valid ETDE descriptor.)

- USE copper base alloys
- USE nickel alloys
- USE zinc alloys

**WHITE DWARF STARS**

- \*BT1 dwarf stars

**WHITE HOLES**

INIS: 1977-10-17; ETDE: 1976-06-07

A time-reversed black hole, an expanding source with growing intensity and photon energy.

- RT black holes
- RT cosmology
- RT origin
- RT stars

**WHITE RIVER**

2000-04-12

Not related to White River Basin, a geographically separate area in Arkansas and Missouri.

- \*BT1 rivers
- RT colorado
- RT utah

**WHITE RIVER BASIN**

INIS: 2000-04-12; ETDE: 1977-11-28

Not related to White River, a river flowing in Colorado and Utah.

- RT arkansas
- RT missouri

**WHITE RIVER SHALE PROJECT**

INIS: 2000-04-12; ETDE: 1976-03-11

- RT oil shales
- RT utah

**WHITE SANDS SOLAR FACILITY**

INIS: 2000-04-12; ETDE: 1981-10-24

The US Army Solar Test Facility in White Sands, New Mexico.

- BT1 test facilities
- RT solar furnaces

**whiteshell-1 reactor**

USE wr-1 reactor

**whiteshell nuclear research establishment**

USE wnre

**WHO**

- UF world health organization
- BT1 international organizations
- RT medicine
- RT united nations

**WHOLE-BODY COUNTERS**

- \*BT1 radiation detectors
- RT gamma spectrometers
- RT whole-body counting

**WHOLE-BODY COUNTING**

- BT1 counting techniques
- RT body
- RT personnel monitoring
- RT radiation protection
- RT radioactivity
- RT radionuclide kinetics
- RT retention
- RT whole-body counters

**WHOLE-BODY IRRADIATION**

- \*BT1 external irradiation
- RT body

**wholesale buyers**

INIS: 1992-04-03; ETDE: 1979-09-28

USE resellers

**wholesale price index**

INIS: 2000-04-12; ETDE: 1979-09-27

(Prior to March 1996 this was a valid ETDE descriptor.)

USE wholesale prices

**WHOLESALE PRICES**

INIS: 1992-02-23; ETDE: 1979-06-06

(From September 1979 until March 1996 WHOLESAL PRICE INDEX was a valid ETDE descriptor.)

- UF producer price index
- UF wholesale price index
- BT1 prices
- RT retail prices

**wholesale sellers**

INIS: 1992-04-03; ETDE: 1979-09-28

USE resellers

**wholesalers**

INIS: 1992-04-03; ETDE: 1979-09-28

USE resellers

**WHOLESOMENESS**

- RT food
- RT preservation

**WICK-CHANDRASEKHAR METHOD**

1996-07-15

- BT1 calculation methods
- RT transport theory

**WICK METHOD**

1996-07-15

- RT neutron slowing-down theory
- RT slowing-down

**WICK THEOREM**

- RT many-body problem
- RT quantum field theory

**WIDE GAP SPARK CHAMBERS**

- \*BT1 spark chambers

**WIDMANSTAETTEN STRUCTURE**

- BT1 microstructure
- RT phase transformations

**WIDOWS CREEK STEAM PLANT**

INIS: 2000-06-27; ETDE: 1976-08-04

- \*BT1 fossil-fuel power plants
- RT tennessee valley authority

**WIDTH**

For dimensions only: see also LEVEL WIDTHS, LINE WIDTHS, and PARTICLE WIDTHS.

- BT1 dimensions
- RT size

**WIEDEMANN-FRANZ LAW**

- RT electric conductivity
- RT thermal conductivity

**wiederaufarbeitungsanlage karlsruhe**

INIS: 1993-11-10; ETDE: 2002-05-24

USE wak

**wiederaufarbeitungsanlage wackersdorf**

INIS: 1993-11-10; ETDE: 2002-05-24

USE wackersdorf reprocessing plant

**WIGGLER MAGNETS**

INIS: 1999-07-02; ETDE: 1977-06-21

- UF undulators
- \*BT1 magnets
- RT synchrotron radiation

**WIGHTMAN FIELD THEORY**

- \*BT1 axiomatic field theory

**WIGNER COEFFICIENTS**

- UF  $9j$ -symbols
- RT angular momentum
- RT clebsch-gordan coefficients
- RT group theory

RT quantum mechanics  
RT racah coefficients

**WIGNER DISTRIBUTION**

RT thermodynamics

**WIGNER EFFECT**

RT graphite  
RT radiation effects

**WIGNER-EISENBUD THEORY**

RT nuclear potential

**WIGNER FORCE**

BT1 nuclear forces

**wigner method**

USE peierls method

**WIGNER SCATTERING**

\*BT1 elastic scattering

**WIGNER-SEITZ METHOD**

BT1 calculation methods  
RT band theory

**WIGNER THEORY**

RT quantum mechanics

**WIGNER-WILKINS MODEL**

RT slowing-down

**WILD ANIMALS**

BT1 animals  
RT coyotes  
RT foxes  
RT grazing  
RT home range  
RT rangelands  
RT wolves

**wilderness areas**

INIS: 1992-03-30; ETDE: 1978-08-08  
USE nature reserves

**WILDERNESS PROTECTION ACTS**

INIS: 1992-03-30; ETDE: 1983-03-23  
BT1 laws  
RT environment  
RT land use  
RT nature reserves

**WILKINS EQUATION**

1996-07-15  
BT1 equations  
RT slowing-down

**wilkinson theory**

1996-07-15  
(Until June 1996 this was a valid descriptor.)  
SEE shell models

**william h. zimmer-1 reactor**

USE zimmer-1 reactor

**william h. zimmer-2 reactor**

INIS: 1980-02-26; ETDE: 1980-03-29  
USE zimmer-2 reactor

**williams-weizsacker approximation**

USE equivalent-photon approximation

**WILLISTON BASIN**

INIS: 1992-06-18; ETDE: 1986-02-21  
\*BT1 sedimentary basins  
RT manitoba  
RT montana  
RT north dakota  
RT petroleum deposits  
RT saskatchewan  
RT south dakota

**WILLOWS**

INIS: 1992-01-13; ETDE: 1984-05-08  
\*BT1 magnoliopsida

\*BT1 trees

**wilputte process**

INIS: 2000-04-12; ETDE: 1978-04-27  
This gasifier is used for the gasification of various types of coal by partial combustion with air or oxygen at atmospheric pressure. The gasifier shell is brick-lined and is equipped with a Chapman drum feeder and agitator assembly. Supported under the shell, riding on three sets of rollers and guided by rollers, is the Koller-type revolving grate and ash pan.  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE coal gasification

**WILSON LOOP**

1983-03-16  
RT feynman path integral  
RT lattice field theory  
RT order parameters  
RT quantum chromodynamics  
RT yang-mills theory

**WILZBACH METHOD**

BT1 labelling  
RT labelled compounds

**WINCHES**

1999-07-07  
\*BT1 materials handling equipment  
RT hoists  
RT materials handling

**WIND**

RT advection  
RT air  
RT atmospheric circulation  
RT climates  
RT fallout  
RT hurricanes  
RT meteorology  
RT natural disasters  
RT particle resuspension  
RT radioactive clouds  
RT sails  
RT tornadoes  
RT turbulence  
RT weather  
RT wind loads

**wind energy conversion systems**

INIS: 1991-08-16; ETDE: 1981-07-18  
USE wind turbines

**wind farms**

INIS: 1992-04-08; ETDE: 1985-08-22  
USE wind turbine arrays

**wind generators**

INIS: 2000-04-12; ETDE: 1976-03-22  
USE electric generators  
USE wind turbines

**WIND LOADS**

INIS: 1992-07-22; ETDE: 1980-03-29  
BT1 dynamic loads  
RT high-rise buildings  
RT storms  
RT stresses  
RT wind

**WIND POWER**

1982-12-07  
BT1 power  
\*BT1 renewable energy sources  
RT wind power industry  
RT wind turbines

**WIND POWER INDUSTRY**

INIS: 1992-02-04; ETDE: 1981-07-18  
BT1 industry  
RT wind power

**WIND POWER PLANTS**

INIS: 1992-04-08; ETDE: 1976-03-22  
Wind turbines supplying electric power to a grid.  
BT1 power plants  
NT1 efd wind generators  
RT wind turbine arrays

**WIND-POWERED PUMPS**

INIS: 1992-04-08; ETDE: 1978-09-11  
Wind-mechanical pumps only, for wind-electric pumps use WIND TURBINES and PUMPS.

\*BT1 pumps  
RT wind turbines

**WIND TUNNELS**

BT1 equipment  
RT aerodynamics  
RT ducts  
RT supersonic flow  
RT tunnels

**WIND TURBINE ARRAYS**

INIS: 1992-04-08; ETDE: 1985-08-22  
UF wind farms  
RT wind power plants

**WIND TURBINES**

1991-08-16  
UF wecs  
UF wind energy conversion systems  
UF wind generators  
\*BT1 turbines  
NT1 diffuser augmented turbines  
NT1 horizontal axis turbines  
NT1 vertical axis turbines  
NT2 giromill turbines  
NT2 tornado turbines  
NT1 vortex augmented turbines  
RT solar chimneys  
RT tilt mechanisms  
RT tipvane rotors  
RT troposkien shape  
RT water brakes  
RT wind power  
RT wind-powered pumps

**WINDFALL PROFITS TAX**

INIS: 2000-04-12; ETDE: 1979-12-10  
BT1 taxes  
RT petroleum industry  
RT profits  
RT us economic recovery tax act

**WINDING MACHINES**

INIS: 1999-07-07; ETDE: 1979-05-02  
Equipment for winding coils.  
\*BT1 machinery  
RT electric coils  
RT magnet coils

**WINDOW FRAMES**

INIS: 2004-11-03; ETDE: 2004-10-29  
RT buildings  
RT windows

**WINDOWS**

BT1 openings  
NT1 storm windows  
RT bead walls  
RT buildings  
RT curtains  
RT daylighting  
RT double glazing  
RT glazing materials  
RT heat mirrors

RT shutters  
 RT skylights  
 RT solar control films  
 RT window frames

### windscale advanced gas-cooled reactor

1993-11-10

USE wagr reactor

### WINDSCALE PRODUCTION REACTORS

\*BT1 air cooled reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 natural uranium reactors  
 \*BT1 plutonium production reactors  
 \*BT1 thermal reactors

### windscale reprocessing plant

INIS: 1984-06-21; ETDE: 1984-07-10

USE sellafeld reprocessing plant

### wine

USE beverages

### WINKLER PROCESS

2000-04-12

Davy-Powergas Inc. process for producing intermediate- or high-btu gas that utilizes a fluidized bed gasifier operating at 1500-1850 degrees F and using oxygen and steam. Substitution of air for oxygen will produce low-btu gas.

RT sng processes

### winston collectors

INIS: 2000-04-12; ETDE: 1976-11-17

USE compound parabolic concentrators

### WIPP

INIS: 1985-04-22; ETDE: 1984-10-10

UF waste isolation pilot plant

\*BT1 pilot plants  
 \*BT1 radioactive waste facilities  
 BT1 underground facilities  
 \*BT1 us doe

RT alpha-bearing wastes  
 RT high-level radioactive wastes  
 RT new mexico  
 RT salt deposits

### WIRE SPARK CHAMBERS

\*BT1 filmless spark chambers  
 RT multiwire proportional chambers

### WIRES

NT1 exploding wires  
 NT1 superconducting wires  
 RT chains  
 RT filaments  
 RT rods  
 RT ropes

### wires (fuel)

USE fuel wires

### WISCONSIN

1997-06-17

\*BT1 usa  
 RT menominee river  
 RT mississippi river

### wisconsin point beach-1 reactor

INIS: 1993-11-10; ETDE: 2002-05-24

USE point beach-1 reactor

### wisconsin point beach-2 reactor

INIS: 1993-11-10; ETDE: 2002-05-24

USE point beach-2 reactor

### wisconsin public service power reactor

1993-11-10

USE kewaunee reactor

### wisconsin university nuclear reactor

INIS: 1993-11-10; ETDE: 2002-05-24

USE uwnr reactor

### wisconsin university tokamak

ETDE: 2002-05-24

USE uwmak devices

### wisconsin utilities project-3 reactor

INIS: 1993-11-10; ETDE: 2002-05-24

USE wup-3 reactor

### wisconsin utilities project-4 reactor

INIS: 1993-11-10; ETDE: 2002-05-24

USE wup-4 reactor

### wisconsin utilities project-5 reactor

INIS: 1993-11-10; ETDE: 2002-05-24

USE wup-5 reactor

### wisconsin utilities project-6 reactor

INIS: 1993-11-10; ETDE: 2002-05-24

USE wup-6 reactor

### WITWATERSRAND

BT1 mountains  
 RT transvaal

### WKB APPROXIMATION

UF wentzel-kramers-brillouin approximation

\*BT1 approximations  
 RT scattering

### WMO

2001-07-17

UF world meteorological organization

BT1 international organizations  
 RT climates  
 RT meteorology  
 RT united nations

### WNP-1 REACTOR

Washington Public Power Supply System, Richland, Washington, USA. Canceled in 1995 after construction began (1978).

UF washington public power supply system-1 reactor

UF wppss nuclear project no. 1

\*BT1 pwr type reactors  
 RT n-reactor

### WNP-2 REACTOR

Energy Northwest, Richland, Washington, USA.

(Prior to August 2005 the old name HANFORD-2 REACTOR was also a valid descriptor.)

UF columbia generating station

UF hanford-2 reactor

UF washington public power supply system-2 reactor

UF wppss nuclear project no. 2

\*BT1 bwr type reactors

### WNP-3 REACTOR

Washington Public Power Supply System, Satsop, Washington, USA. Canceled in 1995 after construction began (1978).

UF washington public power supply system-3 reactor

UF wppss nuclear project no. 3

\*BT1 pwr type reactors

### WNP-4 REACTOR

1975-08-20

Washington Public Power Supply System, Richland, Washington, USA. Canceled in 1982 after construction began (1975).

UF washington public power supply system-4 reactor

UF wppss nuclear project no. 4

\*BT1 pwr type reactors

### WNP-5 REACTOR

Washington Public Power Supply System, Satsop, Washington, USA. Canceled in 1982 after construction began (1977).

UF washington public power supply system-5 reactor

UF wppss nuclear project no. 5

\*BT1 pwr type reactors

### WNRE

UF whiteshell nuclear research establishment

\*BT1 atomic energy of canada ltd

### WNTR REACTOR

INIS: 1985-04-22; ETDE: 1980-03-04  
 Westinghouse Electric Corp. Zion, Illinois, USA. Shut down in 1987.

UF westinghouse nuclear training reactor

\*BT1 enriched uranium reactors

\*BT1 fast reactors

\*BT1 tank type reactors

\*BT1 training reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

### WOLF CREEK-1 REACTOR

1975-10-29

Wolf Creek Nuclear Operating Corp., Burlington, Kansas, USA.

\*BT1 pwr type reactors

### WOLF-RAYET STARS

\*BT1 main sequence stars

### WOLFENSTEIN PARAMETERS

BT1 dimensionless numbers

RT interactions

RT nucleons

### wolfram

USE tungsten

### WOLFRAMITE

\*BT1 oxide minerals

RT iron oxides

RT tungsten oxides

### wolframophosphoric acid

USE tungstophosphoric acid

### WOLSUNG-1 REACTOR

INIS: 1978-02-23; ETDE: 1978-03-03

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

### WOLSUNG-2 REACTOR

INIS: 1991-12-11; ETDE: 1992-01-24

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

### WOLSUNG-3 REACTOR

1994-01-24

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

### WOLSUNG-4 REACTOR

1994-01-24

\*BT1 candu type reactors

- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

**WOLVES**

INIS: 1993-07-20; ETDE: 1979-07-18

- \*BT1 mammals
- RT coyotes
- RT dogs
- RT foxes
- RT wild animals

**WOMEN**

- BT1 females
- \*BT1 man
- RT adults
- RT gynecology
- RT us affirmative action program

**WOOD**

- UF lightwood
- RT biomass
- RT cork
- RT creosote
- RT delignification
- RT fuels
- RT harvesting
- RT hemicellulose
- RT lignin
- RT paper industry
- RT solid fuels
- RT trees
- RT wood-fuel power plants
- RT wood fuels
- RT wood-plastic composites
- RT wood products industry
- RT xylans
- RT xylose

**wood alcohol**

- USE methanol

**WOOD BURNING APPLIANCES**

INIS: 1993-01-22; ETDE: 1979-08-07

- UF stoves (wood burning)
- UF wood stoves
- \*BT1 appliances
- NT1 wood burning furnaces
- RT ovens
- RT stoves

**WOOD BURNING FURNACES**

INIS: 2000-04-12; ETDE: 1977-06-21

- BT1 furnaces
- \*BT1 wood burning appliances
- RT space heating

**WOOD-FUEL POWER PLANTS**

INIS: 1993-01-22; ETDE: 1980-02-11

- \*BT1 thermal power plants
- RT wood
- RT wood fuels

**WOOD FUELS**

INIS: 1992-04-09; ETDE: 1981-01-27

- UF firewood
- UF fuelwood
- UF wood pellets
- \*BT1 biofuels
- \*BT1 solid fuels
- RT biomass
- RT charcoal
- RT trees
- RT wood
- RT wood-fuel power plants

**WOOD METAL**

1993-10-03

- \*BT1 alloy-bi50pb25cd12sn12

**WOOD OILS**

INIS: 2000-04-12; ETDE: 1984-09-21

- \*BT1 oils

- RT synthetic fuels

**wood pellets**

2004-09-14

- USE pellets
- USE wood fuels

**WOOD-PLASTIC COMPOSITES**

- \*BT1 composite materials
- RT organic polymers
- RT wood

**WOOD PRODUCTS INDUSTRY**

INIS: 1992-03-10; ETDE: 1978-10-30

Industry producing products made from wood, including lumber.

- UF lumber industry
- BT1 industry
- NT1 paper industry
- RT forestry
- RT furniture industry
- RT harvesting equipment
- RT printing and publishing industry
- RT wood

**wood stoves**

INIS: 2000-04-12; ETDE: 1993-01-20

- USE stoves
- USE wood burning appliances

**WOOD WASTES**

INIS: 1992-03-16; ETDE: 1975-10-01

- UF hog fuel
- \*BT1 organic wastes
- \*BT1 solid wastes
- RT bark

**WOODALL-DUCKHAM PROCESS**

INIS: 2000-04-12; ETDE: 1977-08-24

A two-stage fixed bed process with volatile matter removed at low temperature in the first stage and semicoke or char gasified at higher temperatures in the second stage to produce a low btu gas.

- \*BT1 coal gasification
- RT low btu gas

**WOODS-SAXON POTENTIAL**

- UF saxon-woods potential
- \*BT1 nuclear potential
- RT optical models

**WOOL**

- RT fibers
- RT textiles

**wool fat**

1996-10-23

(Prior to March 1997 LANOLIN was used for this concept in ETDE.)

- USE esters
- USE lipids
- USE sterols

**worcester polytechnic institute pool reactor**

1993-11-10

- USE wpir reactor

**WORK**

(From August 1977 to March 1997 LABOR was a valid ETDE descriptor.)

- SF labor
- RT automation
- RT employment
- RT ilo
- RT occupational diseases
- RT occupations
- RT personnel
- RT remote handling
- RT wages
- RT working conditions

- RT working days

**WORK FUNCTIONS**

- BT1 functions
- RT binding energy
- RT electron emission
- RT electron tubes
- RT energy
- RT metals
- RT surface potential

**work hardening**

- USE strain hardening

**work softening**

1977-07-05

- USE strain softening

**workers**

- USE personnel

**working (materials)**

- USE materials working

**WORKING CONDITIONS**

- RT air conditioning
- RT alara
- RT human factors engineering
- RT icrp critical group
- RT industrial medicine
- RT labor relations
- RT occupational diseases
- RT occupational safety
- RT radiation protection
- RT safety
- RT us occupational safety and health act
- RT work
- RT working days

**WORKING DAYS**

INIS: 2000-04-12; ETDE: 1993-08-31

(Prior to December 1991 this was a valid ETDE descriptor. From December 1991 to August 1993 this concept was indexed by ALTERNATIVE WORK SCHEDULES or WORKING CONDITIONS in ETDE.)

- RT alternative work schedules
- RT employment
- RT personnel
- RT work
- RT working conditions

**WORKING FACES**

INIS: 1999-09-01; ETDE: 1980-05-23

- RT geologic deposits
- RT mining

**WORKING FLUIDS**

1982-06-09

- BT1 fluids
- NT1 hydraulic fluids
- NT1 refrigerants
- RT antifreeze
- RT energy conversion
- RT freeze protection
- RT heat exchangers
- RT heat pumps
- RT heat transfer
- RT heat transfer fluids
- RT hydrodynamics
- RT turbines

**WORKMENS COMPENSATION**

- UF compensation (workmens)
- RT accidents
- RT civil liability
- RT financial security
- RT hazards
- RT indemnification agreements
- RT legal aspects
- RT victims compensation

**world**

INIS: 2000-04-12; ETDE: 1980-08-25

SEE earth planet  
SEE global aspects

**world association of nuclear operators**

INIS: 1993-11-10; ETDE: 2002-05-24

USE wano

**WORLD ENERGY COUNCIL**

2000-08-21

BT1 international organizations  
RT energy policy

**world energy data system**

INIS: 1979-12-20; ETDE: 1980-01-24

USE wends

**world health organization**

USE who

**world meteorological organization**

2001-07-17

USE wmo

**world-wide fallout**

USE global fallout

**worms (flat)**

USE platyhelminths

**worms (round)**

USE nematodes

**worms (segmented)**

USE annelids

**WOUNDS**

\*BT1 injuries  
RT healing  
RT necrosis  
RT skin

**WPIR REACTOR**

Worcester Polytechnic Institute, Worcester, Massachusetts, USA.

UF worcester polytechnic institute pool reactor

\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**wppss nuclear project no. 1**

USE wnp-1 reactor

**wppss nuclear project no. 2**

INIS: 1984-06-21; ETDE: 1997-03-28

USE wnp-2 reactor

**wppss nuclear project no. 3**

INIS: 1984-06-21; ETDE: 1997-03-28

USE wnp-3 reactor

**wppss nuclear project no. 4**

INIS: 1984-06-21; ETDE: 1997-03-28

USE wnp-4 reactor

**wppss nuclear project no. 5**

INIS: 1984-06-21; ETDE: 1997-03-28

USE wnp-5 reactor

**WR-1 REACTOR**

AECL, Pinawa, Manitoba, Canada.

UF whiteshell-1 reactor

\*BT1 enriched uranium reactors  
\*BT1 heavy water moderated reactors  
\*BT1 materials testing reactors  
\*BT1 organic cooled reactors  
\*BT1 tank type reactors  
\*BT1 test reactors

\*BT1 thermal reactors

**WRRR REACTOR**

Walter Reed Army Medical Center, Washington, D.C., USA. Shut down in 1970.

UF walter reed research reactor 1-54

\*BT1 aqueous homogeneous reactors  
\*BT1 enriched uranium reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**WSUR REACTOR**

Washington State Univ., Pullman, Washington, USA.

UF pullman washington state university reactor

UF rscw reactor

UF rwsu reactor

UF washington state university reactor

\*BT1 pool type reactors  
\*BT1 pulsed reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**WT-3 TOKAMAK**

INIS: 1989-12-07; ETDE: 1990-01-03

Kyoto University, Kyoto, Japan.

\*BT1 tokamak devices

**WTR REACTOR**

Westinghouse Electric Corporation, Madison, Pennsylvania, USA. Shut down in 1963.

UF westinghouse testing reactor

\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**wuerenlingen proteus reactor**

USE proteus reactor

**WUERGASSEN REACTOR**

Wuergassen, Niedersachsen, Federal Republic of Germany.

UF kernkraftwerk wuergassen

\*BT1 bwr type reactors

**wulfenite**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE oxide minerals

**wup-1 reactor**

USE haven-1 reactor

**wup-2 reactor**

USE haven-2 reactor

**WUP-3 REACTOR**

Standardized plant of the Wisconsin Utilities Project, Wisconsin, USA.

UF wisconsin utilities project-3 reactor

\*BT1 pwr type reactors

**WUP-4 REACTOR**

Standardized plant of the Wisconsin Utilities Project, Wisconsin, USA.

UF wisconsin utilities project-4 reactor

\*BT1 pwr type reactors

**WUP-5 REACTOR**

Standardized plant of the Wisconsin Utilities Project, Wisconsin, USA.

UF wisconsin utilities project-5 reactor

\*BT1 pwr type reactors

**WUP-6 REACTOR**

Standardized plant of the Wisconsin Utilities Project, Wisconsin, USA.

UF wisconsin utilities project-6 reactor

\*BT1 pwr type reactors

**wwer-1 reactor**

2003-06-26

USE novovoronezh-1 reactor

**wwer-2 reactor**

2003-06-26

USE novovoronezh-2 reactor

**wwer-3 reactor**

2003-06-26

USE novovoronezh-3 reactor

**wwer-4 reactor**

2003-06-26

USE novovoronezh-4 reactor

**wwer-5 reactor**

2003-06-26

USE novovoronezh-5 reactor

**WWER TYPE REACTORS**

1997-08-20

\*BT1 pwr type reactors  
NT1 armenian-1 reactor  
NT1 armenian-2 reactor  
NT1 balakovo-1 reactor  
NT1 balakovo-2 reactor  
NT1 balakovo-3 reactor  
NT1 balakovo-4 reactor  
NT1 blahutovice-1 reactor  
NT1 bohunice v-1 reactor  
NT1 bohunice v-2 reactor  
NT1 dukovany-1 reactor  
NT1 dukovany-2 reactor  
NT1 dukovany-3 reactor  
NT1 dukovany-4 reactor  
NT1 greifswald-1 reactor  
NT1 greifswald-2 reactor  
NT1 greifswald-3 reactor  
NT1 greifswald-4 reactor  
NT1 greifswald-5 reactor  
NT1 greifswald-6 reactor  
NT1 juragua-1 reactor  
NT1 kalinin-1 reactor  
NT1 kalinin-3 reactor  
NT1 keccerovce-1 reactor  
NT1 khmel'nitskij-1 reactor  
NT1 kola-1 reactor  
NT1 kola-2 reactor  
NT1 kola-3 reactor  
NT1 kola-4 reactor  
NT1 kozloduy-1 reactor  
NT1 kozloduy-2 reactor  
NT1 kozloduy-3 reactor  
NT1 kozloduy-4 reactor  
NT1 kozloduy-5 reactor  
NT1 kozloduy-6 reactor  
NT1 kudankulam-1 reactor  
NT1 kudankulam-2 reactor  
NT1 loviisa-1 reactor  
NT1 loviisa-2 reactor  
NT1 mochovce-1 reactor  
NT1 mochovce-2 reactor  
NT1 novovoronezh-1 reactor  
NT1 novovoronezh-2 reactor  
NT1 novovoronezh-3 reactor  
NT1 novovoronezh-4 reactor  
NT1 novovoronezh-5 reactor  
NT1 paks-1 reactor  
NT1 paks-2 reactor  
NT1 paks-3 reactor  
NT1 paks-4 reactor  
NT1 rovno-1 reactor  
NT1 rovno-2 reactor

NT1 rovno-3 reactor  
 NT1 rovno-4 reactor  
 NT1 rovno-5 reactor  
 NT1 south ukrainian-1 reactor  
 NT1 south ukrainian-2 reactor  
 NT1 south ukrainian-3 reactor  
 NT1 stendal-1 reactor  
 NT1 tatarian reactor  
 NT1 temelin-1 reactor  
 NT1 temelin-2 reactor  
 NT1 tianwan-1 reactor  
 NT1 zaporozhe-1 reactor  
 NT1 zaporozhe-2 reactor  
 NT1 zaporozhe-3 reactor  
 NT1 zaporozhe-4 reactor  
 NT1 zaporozhe-5 reactor  
 NT1 zaporozhe-6 reactor

**WWR-2 REACTOR**

*Moscow, Russian Federation.*

\*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**wwr-c-baghdad reactor**

INIS: 1976-06-23; ETDE: 1994-08-10  
 USE irt-baghdad reactor

**wwr-c-bucharest reactor**

INIS: 1976-06-23; ETDE: 2002-05-24  
 USE wwr-s-bucharest reactor

**wwr-c-budapest reactor**

INIS: 1976-06-23; ETDE: 2002-05-24  
 USE wwr-s-budapest reactor

**wwr-c-cairo reactor**

INIS: 1976-06-23; ETDE: 2002-05-24  
 USE wwr-s-cairo reactor

**wwr-c-moscow reactor**

INIS: 1976-06-23; ETDE: 2002-05-24  
 USE wwr-s-moscow reactor

**wwr-c-prague reactor**

INIS: 1998-09-23; ETDE: 2002-03-27  
 USE lvr-15 reactor

**wwr-c-tashkent reactor**

INIS: 1976-06-23; ETDE: 2002-05-24  
 USE wwr-s-tashkent reactor

**wwr-k-agma-ata reactor**

1997-07-30  
 (Until July 1997 this was a valid descriptor.)  
 USE wwr-k-almaty reactor

**WWR-K-ALMATY REACTOR**

INIS: 1997-07-30; ETDE: 1997-08-30  
*Almaty, Kazakhstan.*  
 (Prior to August 1997 this descriptor was spelled WWR-K ALMA-ATA REACTOR.)  
 UF *alma-ata wwr-k reactor*  
 UF *almaty wwr-k reactor*  
 UF *wwr-k-agma-ata reactor*  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**wwr-libyan reactor**

2005-01-24  
 USE irt-1 libya reactor

**WWR-M-KIEV REACTOR**

*Kiev, Ukraine.*  
 UF *kiev wwr-m reactor*  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**WWR-M-LENINGRAD REACTOR**

*St. Petersburg, Russian Federation.*  
 UF *leningrad wwr-m reactor*  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**wwr-s-baghdad reactor**

INIS: 1985-06-10; ETDE: 1994-08-10  
 (Name changed to IRT-BAGHDAD REACTOR; prior to June 1985 this was a valid descriptor.)  
 USE irt-baghdad reactor

**WWR-S-BUCHAREST REACTOR**

1976-06-23  
*Magurele, Romania.*  
 UF *bucharest wwr-s reactor*  
 UF *romanian wwr-c reactor*  
 UF *wwr-c-bucharest reactor*  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**WWR-S-BUDAPEST REACTOR**

1976-06-23  
*KFKI Atomic Energy Research Institute, Hungarian Academy of Sciences, Budapest, Hungary.*  
 UF *budapest wwr-s reactor*  
 UF *hungarian wwr-c reactor*  
 UF *kfki reactor*  
 UF *wwr-c-budapest reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors  
 \*BT1 wwr type reactors

**WWR-S-CAIRO REACTOR**

1976-06-23  
 UF *are-rr-1 reactor*  
 UF *cairo wwr-s reactor*  
 UF *united arab republic wwr-c reactor*  
 UF *wwr-c-cairo reactor*  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**WWR-S-MOSCOW REACTOR**

1976-06-23  
*Moscow, Russian Federation.*  
 UF *moscow wwr-s reactor*  
 UF *wwr-c-moscow reactor*  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**WWR-S-PRAGUE REACTOR**

1998-09-23  
 UF *czech wwr-c reactor*  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**wwr-s-rez reactor**

INIS: 1998-09-23; ETDE: 2002-03-27  
 USE lvr-15 reactor

**WWR-S-TASHKENT REACTOR**

1976-06-23  
*Tashkent, Uzbekistan.*  
 UF *tashkent wwr-s reactor*  
 UF *uzbek wwr-c reactor*  
 UF *uzbek wwr-s reactor*  
 UF *wwr-c-tashkent reactor*  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**wwr-s-zittau reactor**

INIS: 1984-04-04; ETDE: 2002-05-24  
 USE zlfr reactor

**WWR-SM ROSSENDORF REACTOR**

*Zentralinstitut fuer Kernforschung, Rossendorf bei Dresden, Federal Republic of Germany.*  
 UF *rossendorf wwr-sm reactor*  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**WWR TYPE REACTORS**

UF *zarnowiec reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 tank type reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
 NT1 budapest training reactor  
 NT1 irt-1 libya reactor  
 NT1 irt-baghdad reactor  
 NT1 lvr-15 reactor  
 NT1 wwr-2 reactor  
 NT1 wwr-k-almaty reactor  
 NT1 wwr-m-kiiev reactor  
 NT1 wwr-m-leningrad reactor  
 NT1 wwr-s-bucharest reactor  
 NT1 wwr-s-budapest reactor  
 NT1 wwr-s-cairo reactor  
 NT1 wwr-s-moscow reactor  
 NT1 wwr-s-prague reactor  
 NT1 wwr-s-tashkent reactor  
 NT1 wwr-sm rossendorf reactor  
 NT1 wwr-z reactor

**WWR-Z REACTOR**

2000-04-12  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**WYHL-1 REACTOR**

INIS: 1975-10-31; ETDE: 1975-12-16  
 UF *kws-1 wyhl reactor*  
 \*BT1 pwr type reactors

**WYHL-2 REACTOR**

INIS: 1975-10-31; ETDE: 1975-12-16  
 UF *kws-2 wyhl reactor*  
 \*BT1 pwr type reactors

**wylfa nuclear power station**

USE wylfa reactor

**WYLFA REACTOR**

*Anglesey, Wales, UK.*  
 UF *wylfa nuclear power station*  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 thermal reactors

**WYOMING**

1997-06-19  
 \*BT1 usa  
 NT1 powder river basin  
 NT1 rock springs sites  
 NT1 washakie basin  
 RT green river formation  
 RT north platte river basin  
 RT snake river plain  
 RT us naval petroleum reserves  
 RT wasatch formation  
 RT western us overthrust belt  
 RT yellowstone national park

**X-10 REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in November 1963.  
 UF *ornl x-10 area graphite reactor*

- \*BT1 air cooled reactors
- \*BT1 graphite moderated reactors
- \*BT1 isotope production reactors
- \*BT1 natural uranium reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**X-1700 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

- \*BT1 mesons

**X-1935 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by S-1930 RESONANCES.)

UF s-1930 resonances

- \*BT1 mesons

**X-2220 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by X-2220 RESONANCES.)

UF x-2220 resonances

- \*BT1 mesons

**x-2220 resonances**

INIS: 1988-03-08; ETDE: 1987-06-09

(Prior to December 1987 this was a valid descriptor.)

USE x-2220 mesons

**x-2830 resonances**

INIS: 1988-03-08; ETDE: 1977-11-28

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**X-3075 MESONS**

INIS: 1988-05-13; ETDE: 1988-06-24

- \*BT1 mesons

**x 40 (alloy)**

INIS: 2000-04-12; ETDE: 1979-12-17

USE alloy-hs-31

**X CENTERS**

2000-04-12

- \*BT1 color centers

**X CHROMOSOME**

INIS: 1980-02-26; ETDE: 1980-03-31

From then till April 1980 the form X-CHROMOSOMES was used.

(Prior to July 1978

HETEROCHROMOSOMES was used for this concept.)

- \*BT1 heterochromosomes
- NT1 human x chromosome

**X CODES**

- BT1 computer codes

**X RADIATION**

- \*BT1 electromagnetic radiation
- \*BT1 ionizing radiations
- NT1 hard x radiation
- NT1 soft x radiation
- RT biomedical radiography
- RT cosmic x-ray bursts
- RT cosmic x-ray sources
- RT fluoroscopy
- RT gamma radiation
- RT photons
- RT solar x-ray bursts
- RT television
- RT x-ray fluorescence analysis
- RT x-ray photoelectron spectroscopy
- RT x-ray spectroscopy

**x-rasers**

INIS: 1978-07-03; ETDE: 1978-03-08

USE x-ray lasers

**X-RAY DETECTION**

UF photon detection (x-ray)

\*BT1 radiation detection

RT x-ray dosimetry

RT x-ray spectrometers

**X-RAY DIFFRACTION**

UF diffraction (x-ray)

UF xrd

\*BT1 diffraction

RT bragg reflection

RT crystallography

RT debye-scherrer method

RT diffuse scattering

RT laue method

RT structural chemical analysis

RT x-ray diffractometers

**X-RAY DIFFRACTOMETERS**

\*BT1 diffractometers

RT crystallography

RT diffraction methods

RT gamma diffractometers

RT structural chemical analysis

RT x-ray diffraction

**X-RAY DOSIMETRY**

BT1 dosimetry

RT x-ray detection

**X-RAY EMISSION ANALYSIS**

UF particle-induced x-ray emission analysis

\*BT1 nondestructive analysis

NT1 pixe analysis

NT1 x-ray fluorescence analysis

RT electron probes

RT quantitative chemical analysis

RT x-ray spectroscopy

**X-RAY EQUIPMENT**

BT1 equipment

NT1 x-ray tubes

RT biomedical radiography

RT diagnostic techniques

RT diffraction gratings

RT electronic equipment

RT x-ray sources

**X-RAY FLUORESCENCE ANALYSIS**

UF xeqf spectroscopy

\*BT1 x-ray emission analysis

RT fluorescence

RT fluorescence spectroscopy

RT quantitative chemical analysis

RT x radiation

RT x-ray fluorescence analyzers

RT x-ray fluorescence logging

**X-RAY FLUORESCENCE****ANALYZERS**

RT x-ray fluorescence analysis

**X-RAY FLUORESCENCE LOGGING**

INIS: 1978-11-24; ETDE: 1977-03-04

\*BT1 radioactivity logging

RT x-ray fluorescence analysis

**X-RAY GALAXIES**

INIS: 1975-09-09; ETDE: 1976-08-24

Galaxies that emit most of their radiative power in the form of x-rays.

\*BT1 cosmic x-ray sources

BT1 galaxies

RT cosmic photons

RT cosmic radiation

**X-RAY LASERS**

INIS: 1978-07-03; ETDE: 1978-03-08

UF x-rasers

BT1 lasers

**x-ray photoelectron spectrometry**

2002-11-25

USE x-ray photoelectron spectroscopy

**X-RAY PHOTOELECTRON****SPECTROSCOPY**

2002-11-25

UF esca

UF x-ray photoelectron spectrometry

UF xps

\*BT1 photoelectron spectroscopy

RT electron spectra

RT x radiation

**X-RAY RADIOGRAPHY**

\*BT1 industrial radiography

RT biomedical radiography

**x-ray radiography (biomedical)**

ETDE: 2002-05-24

USE biomedical radiography

**X-RAY SOURCES**

For cosmic sources of x radiation use COSMIC X-RAY SOURCES.

BT1 radiation sources

RT advanced light source

RT advanced photon source

RT nsls

RT swiss light source

RT synchrotron radiation sources

RT x-ray equipment

**X-RAY SPECTRA**

BT1 spectra

RT x-ray spectroscopy

**X-RAY SPECTROMETERS**

\*BT1 spectrometers

RT x-ray detection

**x-ray spectrometry**

INIS: 1975-10-23; ETDE: 2002-05-24

USE x-ray spectroscopy

**X-RAY SPECTROSCOPY**

UF x-ray spectrometry

BT1 spectroscopy

RT x radiation

RT x-ray emission analysis

RT x-ray spectra

**x-ray transmission scanning**

USE photon transmission scanning

**X-RAY TUBES**

BT1 electron tubes

\*BT1 x-ray equipment

**x-zero resonances**

USE eta prime-958 mesons

**XANTHAN GUM**

INIS: 2000-09-06; ETDE: 2000-02-25

UF xanthum gum

\*BT1 polysaccharides

**XANTHATES**

\*BT1 organic sulfur compounds

NT1 viscose

**XANTHINES**

\*BT1 organic oxygen compounds

\*BT1 purines

NT1 caffeine

NT1 theobromine

NT1 theophylline

NT1 uric acid



*RT* hypoxanthine

### xanthum gum

*INIS: 2000-04-12; ETDE: 1983-05-21*

USE xanthan gum

### XAPR REACTOR

2003-08-18

*Xi'an, China.*

- \*BT1 pool type reactors
- \*BT1 pulsed reactors
- \*BT1 research reactors

### xc-224

*INIS: 2000-04-12; ETDE: 1979-01-30*

USE mar-m509 alloys

### xc-224fe

*INIS: 2000-04-12; ETDE: 1979-01-30*

USE mar-m509 alloys

### xds computers

*INIS: 1996-07-15; ETDE: 1979-01-30*

(Until June 1996 this was a valid descriptor.)

USE computers

### XE-2 REACTOR

2000-04-12

*USA.*

*UF ground experimental engine experiment-2*

- \*BT1 experimental reactors
- \*BT1 space propulsion reactors
- RT* hydrogen cooled reactors
- RT* nerva reactor

### XE-PRIME REACTOR

2000-04-12

*Nevada Test Site, Mercury, Nevada, USA.*

*UF ground experimental engine experiment*

- \*BT1 experimental reactors
- \*BT1 hydrogen cooled reactors
- \*BT1 propulsion reactors

### XENOBIOTICS

*INIS: 1981-02-27; ETDE: 1981-03-16*

- RT* additives
- RT* detergents
- RT* drugs
- RT* nutrients
- RT* organic polymers

### XENON

- \*BT1 rare gases

### XENON 109

2007-04-19

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 xenon isotopes

### XENON 110

*INIS: 1986-04-28; ETDE: 1981-09-08*

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 xenon isotopes

### XENON 111

*INIS: 1980-04-02; ETDE: 1980-05-06*

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

- \*BT1 xenon isotopes

### XENON 112

*INIS: 1979-04-27; ETDE: 1979-05-25*

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

### XENON 113

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

### XENON 114

*INIS: 1978-02-23; ETDE: 1978-05-01*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

### XENON 115

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

### XENON 116

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

### XENON 117

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

### XENON 118

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

### XENON 119

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

### XENON 120

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

### XENON 121

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

### XENON 122

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 xenon isotopes

### XENON 123

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 xenon isotopes

### XENON 123 TARGET

*INIS: 1975-12-17; ETDE: 1976-07-12*

BT1 targets

### XENON 124

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

### XENON 124 TARGET

*INIS: 1976-02-11; ETDE: 1976-07-12*

BT1 targets

### XENON 125

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

### XENON 125 TARGET

*INIS: 1978-07-31; ETDE: 1978-09-11*

BT1 targets

### XENON 126

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

### XENON 126 TARGET

*INIS: 1976-02-11; ETDE: 1976-07-12*

BT1 targets

### XENON 127

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

### XENON 127 TARGET

*INIS: 1979-02-21; ETDE: 1979-03-28*

BT1 targets

### XENON 128

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

### XENON 128 TARGET

*INIS: 1975-10-23; ETDE: 1976-07-09*

BT1 targets

### XENON 129

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 129 BEAMS**

*INIS: 1976-07-30; ETDE: 1976-11-01*  
\*BT1 ion beams

**XENON 129 REACTIONS**

*INIS: 1976-07-30; ETDE: 1976-11-01*  
\*BT1 heavy ion reactions

**XENON 129 TARGET**

*INIS: 1984-05-24; ETDE: 1984-06-29*  
BT1 targets

**XENON 130**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 130 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 131**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 131 BEAMS**

*INIS: 1977-02-08; ETDE: 1977-04-13*  
\*BT1 ion beams

**XENON 131 TARGET**

*INIS: 1979-04-27; ETDE: 1977-06-02*  
BT1 targets

**XENON 132**

- \*BT1 even-even nuclei
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 132 BEAMS**

*INIS: 1979-01-18; ETDE: 1979-02-23*  
\*BT1 ion beams

**XENON 132 REACTIONS**

*INIS: 1977-02-08; ETDE: 1977-04-13*  
\*BT1 heavy ion reactions

**XENON 132 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 133**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 xenon isotopes

**XENON 134**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 134 REACTIONS**

*1983-09-01*  
\*BT1 heavy ion reactions

**XENON 134 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 135**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 136**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes
- RT* xenon 136 beams

**XENON 136 BEAMS**

\*BT1 ion beams  
*RT* xenon 136

**XENON 136 REACTIONS**

\*BT1 heavy ion reactions

**XENON 136 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 137**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 138**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 139**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 140**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 142**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 146**

*INIS: 1992-09-23; ETDE: 1976-03-25*  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 xenon isotopes

**XENON 147**

*2007-04-19*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 xenon isotopes

**XENON BROMIDES**

\*BT1 bromides  
\*BT1 xenon compounds

**XENON CHLORIDES**

\*BT1 chlorides  
\*BT1 xenon compounds

**XENON COMPLEXES**

BT1 complexes

**XENON COMPOUNDS**

*1996-07-08*  
BT1 rare gas compounds  
NT1 xenon bromides  
NT1 xenon chlorides  
NT1 xenon fluorides  
NT1 xenon hydrides  
NT1 xenon iodides  
NT1 xenon oxides

**xenon effect**

USE poisoning

**XENON FLUORIDES**

\*BT1 fluorides  
\*BT1 xenon compounds

**XENON HYDRIDES**

*1996-07-15*  
(From June 1996 to November 2007 XENON COMPOUNDS + HYDRIDES was used for this concept.)  
\*BT1 hydrides  
\*BT1 xenon compounds

**XENON IODIDES**

*INIS: 1980-11-07; ETDE: 1978-10-23*  
\*BT1 iodides  
\*BT1 xenon compounds

**XENON IONS**

\*BT1 ions

**XENON ISOTOPES**

*1999-07-16*  
BT1 isotopes  
NT1 xenon 109  
NT1 xenon 110  
NT1 xenon 111  
NT1 xenon 112  
NT1 xenon 113  
NT1 xenon 114  
NT1 xenon 115  
NT1 xenon 116  
NT1 xenon 117  
NT1 xenon 118  
NT1 xenon 119

**NT1** xenon 120  
**NT1** xenon 121  
**NT1** xenon 122  
**NT1** xenon 123  
**NT1** xenon 124  
**NT1** xenon 125  
**NT1** xenon 126  
**NT1** xenon 127  
**NT1** xenon 128  
**NT1** xenon 129  
**NT1** xenon 130  
**NT1** xenon 131  
**NT1** xenon 132  
**NT1** xenon 133  
**NT1** xenon 134  
**NT1** xenon 135  
**NT1** xenon 136  
**NT1** xenon 137  
**NT1** xenon 138  
**NT1** xenon 139  
**NT1** xenon 140  
**NT1** xenon 141  
**NT1** xenon 142  
**NT1** xenon 143  
**NT1** xenon 144  
**NT1** xenon 145  
**NT1** xenon 146  
**NT1** xenon 147

## XENON OSCILLATIONS

1986-05-26

*Effects of fission product xenon levels on reactor operation.*

**BT1** poisoning  
**RT** nuclear poisons  
**RT** oscillations  
**RT** reactor poison removal

## XENON OXIDES

\***BT1** oxides  
 \***BT1** xenon compounds

## XENOTIME

\***BT1** phosphate minerals  
**RT** granites  
**RT** pegmatites  
**RT** yttrium phosphates

## xerq spectroscopy

*INIS: 1984-04-04; ETDE: 2002-05-24*  
 USE x-ray fluorescence analysis

## xeroderma pigmentosum

*INIS: 2000-04-12; ETDE: 1978-01-23*  
*See also XP CELLS.*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE congenital diseases  
 USE hereditary diseases  
 USE skin diseases

## xeroderma pigmentosum cells

*INIS: 1976-07-16; ETDE: 2002-05-24*  
 USE xp cells

## XEROGRAPHY

**UF** xeroradiography  
**RT** electrostatics  
**RT** photography

## xeroradiography

*INIS: 1975-12-09; ETDE: 2002-05-24*  
*Coordinate, as appropriate, with BIOMEDICAL RADIOGRAPHY or INDUSTRIAL RADIOGRAPHY.*

USE xerography

## xerox data systems computers

*INIS: 1996-07-08; ETDE: 2002-05-24*  
 USE computers

## XI-1530 BARYONS

*INIS: 1987-12-21; ETDE: 1988-03-07*  
 (Prior to December 1987 this concept was indexed by XI-1530 RESONANCES.)  
**UF** xi-1530 resonances  
 \***BT1** xi baryons

## xi-1530 resonances

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE xi-1530 baryons

## XI-1690 BARYONS

1995-07-17  
 \***BT1** xi baryons

## XI-1820 BARYONS

*INIS: 1987-12-21; ETDE: 1988-03-07*  
 (Prior to December 1987 this concept was indexed by XI-1820 RESONANCES.)  
**UF** xi-1820 resonances  
 \***BT1** xi baryons

## xi-1820 resonances

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE xi-1820 baryons

## xi-1930 resonances

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE xi-1950 baryons

## xi-1940 baryons

*INIS: 1995-08-07; ETDE: 1988-03-07*  
 (From December 1987 until July 1995 this was a valid term.)  
 USE xi-1950 baryons

## XI-1950 BARYONS

1995-08-07  
 (Until December 1987 this concept was indexed by XI-1930 RESONANCES; from then until July 1995 it was indexed by XI-1940 BARYONS.)  
**UF** xi-1930 resonances  
**UF** xi-1940 baryons  
 \***BT1** xi baryons

## XI-2030 BARYONS

*INIS: 1987-12-21; ETDE: 1988-03-07*  
 (Prior to December 1987 this concept was indexed by XI-2030 RESONANCES.)  
**UF** xi-2030 resonances  
 \***BT1** xi baryons

## xi-2030 resonances

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE xi-2030 baryons

## XI-2250 BARYONS

*INIS: 1987-12-21; ETDE: 1988-03-07*  
 \***BT1** xi baryons

## XI-2500 BARYONS

*INIS: 1987-12-21; ETDE: 1988-03-07*  
 \***BT1** xi baryons

## XI BARYONS

*INIS: 1995-07-17; ETDE: 1988-03-07*  
 \***BT1** hyperons  
**NT1** xi-1530 baryons  
**NT1** xi-1690 baryons  
**NT1** xi-1820 baryons  
**NT1** xi-1950 baryons  
**NT1** xi-2030 baryons  
**NT1** xi-2250 baryons

**NT1** xi-2500 baryons  
**NT1** xi particles  
**NT2** antixi particles  
**NT2** xi minus particles  
**NT2** xi neutral particles

## XI C NEUTRAL BARYONS

*INIS: 1995-04-03; ETDE: 1995-03-27*  
 \***BT1** charmed baryons

## XI C PLUS BARYONS

*INIS: 1987-12-21; ETDE: 1988-03-07*  
 \***BT1** charmed baryons

## xi minus

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE xi minus particles

## XI MINUS PARTICLES

*INIS: 1987-12-21; ETDE: 1988-07-27*  
 (Prior to August 1985 this concept was indexed by XI-MINUS and from August 1985 to December 1987 by XI MINUS.)  
**UF** xi minus  
 \***BT1** xi particles

## xi neutral

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE xi neutral particles

## XI NEUTRAL PARTICLES

*INIS: 1987-12-21; ETDE: 1988-07-27*  
 (Prior to August 1985 this concept was indexed by XI-NEUTRAL and from August 1985 to December 1987 by XI NEUTRAL.)  
**UF** xi neutral  
 \***BT1** xi particles

## xi particle beams

1996-07-15  
 (Until June 1996 this was a valid descriptor.)  
 USE hyperon beams

## XI PARTICLES

\***BT1** xi baryons  
**NT1** antixi particles  
**NT1** xi minus particles  
**NT1** xi neutral particles

## XMA-1 REACTOR

2000-04-12  
 USA.  
 \***BT1** air cooled reactors  
 \***BT1** aircraft propulsion reactors  
 \***BT1** enriched uranium reactors  
 \***BT1** experimental reactors  
 \***BT1** hydride moderated reactors

## XP CELLS

*INIS: 1976-07-16; ETDE: 1976-09-15*  
*Xeroderma pigmentosum cells.*  
 (From January 1978 till March 1997 XERODERMA PIGMENTOSUM was a valid ETDE descriptor.)  
**UF** xeroderma pigmentosum cells  
**BT1** animal cells

## xps

2002-11-25  
 USE x-ray photoelectron spectroscopy

## xrd

2002-11-25  
 USE x-ray diffraction

## xuv

USE extreme ultraviolet radiation

**XYLANASE**

INIS: 2000-04-12; ETDE: 1981-01-12

UF xylanases

\*BT1 o-glycosyl hydrolases

**xylanases**

INIS: 2000-04-12; ETDE: 1979-03-28

(Prior to January 1981 this was a valid ETDE descriptor.)

USE xylanase

**XYLANS**

INIS: 2000-04-12; ETDE: 1979-04-12

Major hemicellulose of hard woods.

\*BT1 hemicellulose

RT biomass

RT lignin

RT trees

RT wood

**XYLENE-PARA**

\*BT1 xylenes

**XYLENES**

UF dimethylbenzenes

\*BT1 alkylated aromatics

\*BT1 hydrocarbons

NT1 xylene-para

**XYLENOL ORANGE**

BT1 dyes

BT1 indicators

**XYLENOLS**

2000-04-12

UF dimethylphenols

UF hydroxyxylenes

\*BT1 phenols

**XYLOSE**

\*BT1 aldehydes

\*BT1 pentoses

RT wood

**Y-12 PLANT**

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT oak ridge

RT oak ridge reservation

RT tennessee

**Y CHROMOSOME**

INIS: 1980-02-26; ETDE: 1980-03-29

(Prior to April 1980 this concept was indexed to HETEROCHROMOSOMES in ETDE.)

\*BT1 heterochromosomes

NT1 human y chromosome

**Y CODES**

BT1 computer codes

**y\*resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE baryons

**yamaguchi nonlocal potential**

USE yamaguchi potential

**YAMAGUCHI POTENTIAL**

UF yamaguchi nonlocal potential

\*BT1 nucleon-nucleon potential

RT nucleons

**YAMS**

Tuberous root of plants of the genus

*Dioscorea*.

\*BT1 magnoliopsida

\*BT1 vegetables

**YANG-FELDMAN FORMALISM**

RT quantum field theory

RT s matrix

**yang-lee distribution**

USE lee-yang theory

**YANG-MILLS THEORY**

RT instantons

RT isospin

RT quantum chromodynamics

RT quantum field theory

RT wilson loop

**YANG THEOREM**

RT angular distribution

RT nuclear reactions

**YANGTZE RIVER**

INIS: 1992-06-04; ETDE: 1980-08-12

\*BT1 rivers

RT china

**yankee connecticut reactor**

USE connecticut yankee reactor

**yankee event**

INIS: 1994-10-14; ETDE: 1984-05-23

A test made during PROJECT CASTLE.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

**yankee maine reactor**

USE maine yankee reactor

**yankee rowe reactor**

USE rowe yankee reactor

**yankee vermont reactor**

USE vermont yankee reactor

**YAYOI REACTOR**

Univ. of Tokyo, Tokai, Ibaraki, Japan.

\*BT1 fast reactors

\*BT1 research and test reactors

**YEARS LIVING RADIOISOTOPES**

\*BT1 radioisotopes

NT1 actinium 227

NT1 aluminium 26

NT1 americium 241

NT1 americium 242

NT1 americium 243

NT1 antimony 125

NT1 argon 39

NT1 argon 42

NT1 barium 133

NT1 berkelium 247

NT1 beryllium 10

NT1 bismuth 207

NT1 bismuth 208

NT1 bismuth 210

NT1 cadmium 109

NT1 cadmium 113

NT1 calcium 41

NT1 californium 249

NT1 californium 250

NT1 californium 251

NT1 californium 252

NT1 carbon 14

NT1 cesium 134

NT1 cesium 135

NT1 cesium 137

NT1 chlorine 36

NT1 cobalt 60

NT1 curium 243

NT1 curium 244

NT1 curium 245

NT1 curium 246

NT1 curium 247

NT1 curium 248

NT1 curium 250

NT1 dysprosium 154

NT1 einsteinium 252

NT1 europium 150

NT1 europium 152

NT1 europium 154

NT1 europium 155

NT1 gadolinium 148

NT1 gadolinium 150

NT1 gadolinium 152

NT1 hafnium 172

NT1 hafnium 174

NT1 hafnium 178

NT1 hafnium 182

NT1 holmium 163

NT1 holmium 166

NT1 indium 115

NT1 iodine 129

NT1 iridium 192

NT1 iron 55

NT1 iron 60

NT1 krypton 81

NT1 krypton 85

NT1 lanthanum 137

NT1 lanthanum 138

NT1 lead 202

NT1 lead 205

NT1 lead 210

NT1 lutetium 173

NT1 lutetium 174

NT1 lutetium 176

NT1 manganese 53

NT1 mercury 194

NT1 molybdenum 93

NT1 neodymium 144

NT1 neptunium 235

NT1 neptunium 236

NT1 neptunium 237

NT1 nickel 59

NT1 nickel 63

NT1 niobium 91

NT1 niobium 92

NT1 niobium 93

NT1 niobium 94

NT1 osmium 186

NT1 osmium 194

NT1 palladium 107

NT1 platinum 190

NT1 platinum 193

NT1 plutonium 236

NT1 plutonium 238

NT1 plutonium 239

NT1 plutonium 240

NT1 plutonium 241

NT1 plutonium 242

NT1 plutonium 244

NT1 polonium 208

NT1 polonium 209

NT1 potassium 40

NT1 promethium 144

NT1 promethium 145

NT1 promethium 146

NT1 promethium 147

NT1 protactinium 231

NT1 radium 226

NT1 radium 228

NT1 rhenium 186

NT1 rhenium 187

NT1 rhodium 101

NT1 rubidium 87

NT1 ruthenium 106

NT1 samarium 146

NT1 samarium 147

NT1 samarium 148

NT1 samarium 151

NT1 selenium 79

NT1 silicon 32

NT1 silver 108

**NT1** sodium 22  
**NT1** strontium 90  
**NT1** tantalum 179  
**NT1** technetium 97  
**NT1** technetium 98  
**NT1** technetium 99  
**NT1** tellurium 123  
**NT1** terbium 157  
**NT1** terbium 158  
**NT1** thallium 204  
**NT1** thorium 228  
**NT1** thorium 229  
**NT1** thorium 230  
**NT1** thorium 232  
**NT1** thulium 171  
**NT1** tin 121  
**NT1** tin 126  
**NT1** titanium 44  
**NT1** tritium  
**NT1** uranium 232  
**NT1** uranium 233  
**NT1** uranium 234  
**NT1** uranium 235  
**NT1** uranium 236  
**NT1** uranium 238  
**NT1** vanadium 50  
**NT1** zirconium 93  
*RT* half-life  
*RT* lifetime

**YEASTS**

\*BT1 eumycota  
 BT1 microorganisms  
**NT1** candida  
**NT1** saccharomyces  
   **NT2** saccharomyces cerevisiae  
**NT1** torula  
*RT* pheromone  
*RT* zymosan

**YEELIRRIE DEPOSIT**

*INIS: 1980-12-01; ETDE: 1981-01-09*  
 \*BT1 uranium deposits  
*RT* uranium ores  
*RT* western australia

**yellow cake**

*INIS: 1977-01-25; ETDE: 1977-04-13*  
 USE uranium oxides u3o8

**YELLOW CREEK**

1997-06-19  
 \*BT1 rivers  
*RT* colorado  
*RT* yellow creek basin

**YELLOW CREEK-1 REACTOR**

*INIS: 1977-11-21; ETDE: 1976-08-24*  
*TVA, Iuka, Mississippi, USA. Canceled in 1984 after construction began (1978).*  
 \*BT1 pwr type reactors

**YELLOW CREEK-2 REACTOR**

*INIS: 1977-11-21; ETDE: 1976-08-24*  
*TVA, Iuka, Mississippi, USA. Canceled in 1984 after construction began (1978).*  
 \*BT1 pwr type reactors

**YELLOW CREEK BASIN**

2000-04-12  
 BT1 watersheds  
*RT* colorado  
*RT* yellow creek

**YELLOW RIVER**

1996-11-27  
 \*BT1 rivers  
*RT* china

**YELLOWSTONE NATIONAL PARK**

1992-06-04  
*SF* parks

BT1 public lands  
*RT* idaho  
*RT* montana  
*RT* snake river plain  
*RT* wyoming

**YEMEN**

1991-11-06  
*UF* north yemen  
*UF* peoples democratic republic of yemen  
*UF* south yemen  
*UF* southern yemen  
*UF* yemen, southern  
*UF* yemen arab republic  
 BT1 arab countries  
 BT1 asia  
 BT1 developing countries  
 BT1 middle east

**yemen, southern**

*INIS: 2000-04-12; ETDE: 1980-08-12*  
 USE yemen

**yemen arab republic**

*INIS: 2000-04-12; ETDE: 1980-04-14*  
 (Prior to November 1991 this was a valid ETDE descriptor.)  
 USE yemen

**yerevan synchrotron**

USE erevan synchrotron

**yield (biological)**

USE productivity

**yield (chemical reaction)**

2000-04-12  
 USE chemical reaction yield

**yield (fission)**

2000-04-12  
 USE fission yield

**yield (fusion)**

*INIS: 2000-04-12; ETDE: 1976-05-19*  
 USE fusion yield

**yield (nuclear reaction)**

2000-04-12  
 USE nuclear reaction yield

**YIELD STRENGTH**

*UF* strength (yield)  
 BT1 mechanical properties  
*RT* tensile properties

**YIELDS**

1993-03-11  
*Use of a more specific descriptor is recommended.*  
**NT1** chemical reaction yield  
**NT1** gas yields  
**NT1** nuclear reaction yield  
   **NT2** fission yield  
   **NT2** fusion yield  
**NT1** oil yields  
*RT* productivity

**yolk**

USE eggs

**YONGGWANG-1 REACTOR**

2000-11-21  
*Yonggwang, Republic of Korea.*  
 \*BT1 pwr type reactors

**YONGGWANG-2 REACTOR**

2000-11-21  
*Yonggwang, Republic of Korea.*  
 \*BT1 pwr type reactors

**YONGGWANG-3 REACTOR**

*INIS: 1997-10-03; ETDE: 1998-02-24*  
*Yonggwang, Republic of Korea.*  
 \*BT1 pwr type reactors

**YONGGWANG-4 REACTOR**

*INIS: 1997-10-03; ETDE: 1998-02-24*  
*Yonggwang, Republic of Korea.*  
 \*BT1 pwr type reactors

**yoshida sarcoma**

USE experimental neoplasms

**YOUNG DIAGRAM**

\*BT1 diagrams  
*RT* group theory

**YOUNG MODEL**

*RT* transport theory

**YOUNG MODULUS**

BT1 mechanical properties  
*RT* elasticity  
*RT* hooke law

**YRAST STATES**

*The lowest energy states for given angular momenta.*

BT1 energy levels  
*RT* angular momentum  
*RT* backbending  
*RT* moment of inertia  
*RT* nuclear structure

**YTTERBIUM**

\*BT1 rare earths

**YTTERBIUM 148**

2008-01-28  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 ytterbium isotopes

**YTTERBIUM 149**

2008-01-28  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 ytterbium isotopes

**YTTERBIUM 150**

*INIS: 1985-04-22; ETDE: 1985-05-07*  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 ytterbium isotopes

**YTTERBIUM 151**

*INIS: 1985-10-22; ETDE: 1984-11-29*  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 ytterbium isotopes

**YTTERBIUM 152**

*INIS: 1980-12-01; ETDE: 1980-09-05*  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 ytterbium isotopes

**YTTERBIUM 153**

*INIS: 1977-06-14; ETDE: 1977-10-20*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 ytterbium isotopes

**YTTERBIUM 154***INIS: 1976-10-07; ETDE: 1976-07-07*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 155***INIS: 1976-01-28; ETDE: 1975-09-12*

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 156***INIS: 1976-11-08; ETDE: 1976-09-15*

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 157***1976-07-06*

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 158**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 159**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 160**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 161**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 162**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 163**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 164**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 165**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 166**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 167**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 168**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 168 TARGET***ETDE: 1976-07-09*

- BT1 targets

**YTTERBIUM 169**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 169 TARGET***INIS: 1992-09-23; ETDE: 1982-03-29*

- BT1 targets

**YTTERBIUM 170**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 170 TARGET***ETDE: 1976-07-09*

- BT1 targets

**YTTERBIUM 171**

- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 171 TARGET***ETDE: 1976-07-09*

- BT1 targets

**YTTERBIUM 172**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 172 TARGET***ETDE: 1976-07-09*

- BT1 targets

**YTTERBIUM 173**

- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 173 TARGET***ETDE: 1976-07-09*

- BT1 targets

**YTTERBIUM 174**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 174 TARGET***ETDE: 1976-07-09*

- BT1 targets

**YTTERBIUM 175**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 176**

- \*BT1 even-even nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 176 TARGET***ETDE: 1976-07-09*

- BT1 targets

**YTTERBIUM 177**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 178**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 179***1982-06-09*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 180***INIS: 1987-09-22; ETDE: 1987-10-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 181***2008-01-28*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

### YTTERBIUM ADDITIONS

*Alloys containing not more than 1% Yb are listed here.*

\*BT1 rare earth additions  
RT ytterbium alloys

### YTTERBIUM ALLOYS

*Alloys containing more than 1% Yb.*

\*BT1 rare earth alloys  
NT1 ytterbium base alloys  
RT ytterbium additions

### YTTERBIUM BASE ALLOYS

\*BT1 ytterbium alloys

### YTTERBIUM BORIDES

\*BT1 borides  
\*BT1 ytterbium compounds

### YTTERBIUM BROMIDES

\*BT1 bromides  
\*BT1 ytterbium compounds

### YTTERBIUM CARBIDES

\*BT1 carbides  
\*BT1 ytterbium compounds

### YTTERBIUM CARBONATES

\*BT1 carbonates  
\*BT1 ytterbium compounds

### YTTERBIUM CHLORIDES

\*BT1 chlorides  
\*BT1 ytterbium compounds

### YTTERBIUM COMPLEXES

\*BT1 rare earth complexes

### YTTERBIUM COMPOUNDS

*1997-06-19*

BT1 rare earth compounds  
NT1 ytterbium borides  
NT1 ytterbium bromides  
NT1 ytterbium carbides  
NT1 ytterbium carbonates  
NT1 ytterbium chlorides  
NT1 ytterbium fluorides  
NT1 ytterbium hydrides  
NT1 ytterbium hydroxides  
NT1 ytterbium iodides  
NT1 ytterbium nitrates  
NT1 ytterbium nitrides  
NT1 ytterbium oxides  
NT1 ytterbium perchlorates  
NT1 ytterbium phosphates  
NT1 ytterbium phosphides  
NT1 ytterbium selenides  
NT1 ytterbium silicates  
NT1 ytterbium silicides  
NT1 ytterbium sulfates  
NT1 ytterbium sulfides  
NT1 ytterbium tellurides  
NT1 ytterbium tungstates

### YTTERBIUM FLUORIDES

\*BT1 fluorides  
\*BT1 ytterbium compounds

### YTTERBIUM HYDRIDES

\*BT1 hydrides  
\*BT1 ytterbium compounds

### YTTERBIUM HYDROXIDES

\*BT1 hydroxides  
\*BT1 ytterbium compounds

### YTTERBIUM IODIDES

\*BT1 iodides  
\*BT1 ytterbium compounds

### YTTERBIUM IONS

\*BT1 ions

### YTTERBIUM ISOTOPES

BT1 isotopes  
NT1 ytterbium 148  
NT1 ytterbium 149  
NT1 ytterbium 150  
NT1 ytterbium 151  
NT1 ytterbium 152  
NT1 ytterbium 153  
NT1 ytterbium 154  
NT1 ytterbium 155  
NT1 ytterbium 156  
NT1 ytterbium 157  
NT1 ytterbium 158  
NT1 ytterbium 159  
NT1 ytterbium 160  
NT1 ytterbium 161  
NT1 ytterbium 162  
NT1 ytterbium 163  
NT1 ytterbium 164  
NT1 ytterbium 165  
NT1 ytterbium 166  
NT1 ytterbium 167  
NT1 ytterbium 168  
NT1 ytterbium 169  
NT1 ytterbium 170  
NT1 ytterbium 171  
NT1 ytterbium 172  
NT1 ytterbium 173  
NT1 ytterbium 174  
NT1 ytterbium 175  
NT1 ytterbium 176  
NT1 ytterbium 177  
NT1 ytterbium 178  
NT1 ytterbium 179  
NT1 ytterbium 180  
NT1 ytterbium 181

### YTTERBIUM NITRATES

\*BT1 nitrates  
\*BT1 ytterbium compounds

### YTTERBIUM NITRIDES

\*BT1 nitrides  
\*BT1 ytterbium compounds

### YTTERBIUM OXIDES

\*BT1 oxides  
\*BT1 ytterbium compounds

### YTTERBIUM PERCHLORATES

*INIS: 2000-04-12; ETDE: 1975-10-28*  
\*BT1 perchlorates  
\*BT1 ytterbium compounds

### YTTERBIUM PHOSPHATES

*INIS: 1975-10-23; ETDE: 1975-12-16*  
\*BT1 phosphates  
\*BT1 ytterbium compounds

### YTTERBIUM PHOSPHIDES

*INIS: 1993-01-13; ETDE: 1992-09-14*  
\*BT1 phosphides  
\*BT1 ytterbium compounds

### YTTERBIUM SELENIDES

*INIS: 1977-01-25; ETDE: 1977-04-13*  
\*BT1 selenides  
\*BT1 ytterbium compounds

### YTTERBIUM SILICATES

\*BT1 silicates  
\*BT1 ytterbium compounds

### YTTERBIUM SILICIDES

*INIS: 1978-07-31; ETDE: 1978-09-11*  
\*BT1 silicides  
\*BT1 ytterbium compounds

### YTTERBIUM SULFATES

\*BT1 sulfates  
\*BT1 ytterbium compounds

### YTTERBIUM SULFIDES

\*BT1 sulfides  
\*BT1 ytterbium compounds

### YTTERBIUM TELLURIDES

*INIS: 1987-09-22; ETDE: 1976-01-07*  
\*BT1 tellurides  
\*BT1 ytterbium compounds

### YTTERBIUM TUNGSTATES

*INIS: 1979-02-21; ETDE: 1979-03-28*  
\*BT1 tungstates  
\*BT1 ytterbium compounds

### yttrialite

*1996-07-15*  
(Until June 1996 this was a valid descriptor.)  
USE silicate minerals  
USE thorium minerals

### YTTRIUM

\*BT1 transition elements

### YTTRIUM 100

*INIS: 1977-06-13; ETDE: 1977-10-20*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 yttrium isotopes

### YTTRIUM 101

*INIS: 1984-06-21; ETDE: 1981-01-27*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 yttrium isotopes

### YTTRIUM 102

*INIS: 1977-01-26; ETDE: 1976-11-17*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 yttrium isotopes

### YTTRIUM 103

*INIS: 1996-06-17; ETDE: 1996-05-31*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 yttrium isotopes

### YTTRIUM 104

*2007-05-14*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 yttrium isotopes

### YTTRIUM 105

*2007-05-14*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 yttrium isotopes

### YTTRIUM 106

*2007-05-14*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 yttrium isotopes

### YTTRIUM 107

*2007-05-14*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

\*BT1 yttrium isotopes

### YTTRIUM 108

2007-05-14

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

### YTTRIUM 76

2007-05-14

\*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

### YTTRIUM 77

INIS: 1990-12-05; ETDE: 1991-01-14

\*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

### YTTRIUM 78

2007-05-14

\*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

### YTTRIUM 79

INIS: 1992-03-26; ETDE: 1992-09-30

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

### YTTRIUM 80

INIS: 1980-05-14; ETDE: 1979-12-10

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

### YTTRIUM 81

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

### YTTRIUM 82

\*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

### YTTRIUM 83

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

### YTTRIUM 84

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

### YTTRIUM 85

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 yttrium isotopes

### YTTRIUM 86

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

### YTTRIUM 87

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes  
 RT radioisotope generators

### YTTRIUM 87 TARGET

INIS: 1977-01-25; ETDE: 1977-04-13

BT1 targets

### YTTRIUM 88

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

### YTTRIUM 88 TARGET

INIS: 1977-01-25; ETDE: 1977-04-13

BT1 targets

### YTTRIUM 89

\*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 stable isotopes  
 \*BT1 yttrium isotopes

### YTTRIUM 89 TARGET

ETDE: 1976-07-09

BT1 targets

### YTTRIUM 90

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

### YTTRIUM 91

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

### YTTRIUM 92

\*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

### YTTRIUM 93

\*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

### YTTRIUM 94

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

### YTTRIUM 95

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

### YTTRIUM 96

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

### YTTRIUM 97

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

### YTTRIUM 98

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

### YTTRIUM 99

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

### YTTRIUM ADDITIONS

1996-01-25

Alloys containing not more than 1% Y are listed here.

RT yttrium alloys

### YTTRIUM ALLOYS

1995-02-27

Alloys containing more than 1% Y.

\*BT1 transition element alloys

NT1 alloy-c-103

NT1 ge 2541

NT1 yttrium base alloys

RT yttrium additions

### yttrium aluminium garnets

USE aluminium oxides

USE ferrite garnets

USE yttrium compounds

### YTTRIUM ARSENIDES

INIS: 1996-07-15; ETDE: 1976-09-14

(From June 1996 to February 2008 YTTRIUM COMPOUNDS + ARSENIDES was used for this concept.)

\*BT1 arsenides

\*BT1 yttrium compounds



**YTTRIUM BASE ALLOYS**

\*BT1 yttrium alloys

**YTTRIUM BORIDES**

\*BT1 borides

\*BT1 yttrium compounds

**YTTRIUM BROMIDES**

\*BT1 bromides

\*BT1 yttrium compounds

**YTTRIUM CARBIDES**

\*BT1 carbides

\*BT1 yttrium compounds

**YTTRIUM CARBONATES**

\*BT1 carbonates

\*BT1 yttrium compounds

**YTTRIUM CHLORIDES**

\*BT1 chlorides

\*BT1 yttrium compounds

**YTTRIUM COMPLEXES**

\*BT1 transition element complexes

**YTTRIUM COMPOUNDS**

1997-06-19

*UF* yttrium aluminium garnets

BT1 transition element compounds

NT1 yttrium arsenides

NT1 yttrium borides

NT1 yttrium bromides

NT1 yttrium carbides

NT1 yttrium carbonates

NT1 yttrium chlorides

NT1 yttrium fluorides

NT1 yttrium hydrides

NT1 yttrium hydroxides

NT1 yttrium iodides

NT1 yttrium nitrates

NT1 yttrium nitrides

NT1 yttrium oxides

NT2 alloy-in-853

NT1 yttrium perchlorates

NT1 yttrium phosphates

NT1 yttrium phosphides

NT1 yttrium selenides

NT1 yttrium silicates

NT1 yttrium silicides

NT1 yttrium sulfates

NT1 yttrium sulfides

NT1 yttrium tellurides

NT1 yttrium tungstates

**YTTRIUM FLUORIDES**

\*BT1 fluorides

\*BT1 yttrium compounds

**YTTRIUM HYDRIDES**

\*BT1 hydrides

\*BT1 yttrium compounds

**YTTRIUM HYDROXIDES**

\*BT1 hydroxides

\*BT1 yttrium compounds

**YTTRIUM IODIDES**

\*BT1 iodides

\*BT1 yttrium compounds

**YTTRIUM IONS**

\*BT1 ions

**YTTRIUM ISOTOPES**

1999-07-16

BT1 isotopes

NT1 yttrium 100

NT1 yttrium 101

NT1 yttrium 102

NT1 yttrium 103

NT1 yttrium 104

NT1 yttrium 105

NT1 yttrium 106

NT1 yttrium 107

NT1 yttrium 108

NT1 yttrium 76

NT1 yttrium 77

NT1 yttrium 78

NT1 yttrium 79

NT1 yttrium 80

NT1 yttrium 81

NT1 yttrium 82

NT1 yttrium 83

NT1 yttrium 84

NT1 yttrium 85

NT1 yttrium 86

NT1 yttrium 87

NT1 yttrium 88

NT1 yttrium 89

NT1 yttrium 90

NT1 yttrium 91

NT1 yttrium 92

NT1 yttrium 93

NT1 yttrium 94

NT1 yttrium 95

NT1 yttrium 96

NT1 yttrium 97

NT1 yttrium 98

NT1 yttrium 99

**YTTRIUM NITRATES**

\*BT1 nitrates

\*BT1 yttrium compounds

**YTTRIUM NITRIDES**

\*BT1 nitrides

\*BT1 yttrium compounds

**YTTRIUM ORES**

BT1 ores

**YTTRIUM OXIDES**

\*BT1 oxides

\*BT1 yttrium compounds

NT1 alloy-in-853

**YTTRIUM PERCHLORATES**

1991-09-16

\*BT1 perchlorates

\*BT1 yttrium compounds

**YTTRIUM PHOSPHATES**

\*BT1 phosphates

\*BT1 yttrium compounds

*RT* phosphate minerals*RT* xenotime**YTTRIUM PHOSPHIDES***INIS: 1977-01-25; ETDE: 1976-08-04*

\*BT1 phosphides

\*BT1 yttrium compounds

**YTTRIUM SELENIDES***INIS: 2000-04-12; ETDE: 1975-11-28*

\*BT1 selenides

\*BT1 yttrium compounds

**YTTRIUM SILICATES**

1996-07-08

\*BT1 silicates

\*BT1 yttrium compounds

*RT* kainosite*RT* silicate minerals**YTTRIUM SILICIDES***INIS: 1977-07-05; ETDE: 1976-05-13*

\*BT1 silicides

\*BT1 yttrium compounds

**YTTRIUM SULFATES**

\*BT1 sulfates

\*BT1 yttrium compounds

**YTTRIUM SULFIDES**

\*BT1 sulfides

\*BT1 yttrium compounds

**YTTRIUM TELLURIDES***INIS: 1978-11-24; ETDE: 1975-11-28*

\*BT1 tellurides

\*BT1 yttrium compounds

**YTTRIUM TUNGSTATES***INIS: 1980-02-26; ETDE: 1980-03-29*

\*BT1 tungstates

\*BT1 yttrium compounds

**YUCCA MOUNTAIN***INIS: 1985-01-17; ETDE: 1984-06-29*

BT1 mountains

*RT* nevada*RT* nevada test site*RT* radioactive waste disposal**yugoslav triga-mk-2 reactor***INIS: 1984-06-22; ETDE: 2002-05-24*

USE triga-2-ljubljana reactor

**yugoslav triga-mk-ii reactor**

2000-04-12

USE triga-2-ljubljana reactor

**yugoslavia**

(Prior to March 2004 this was a valid descriptor.)

SEE bosnia and herzegovina

SEE croatia

SEE montenegro

SEE serbia

SEE slovenia

SEE the former yugoslav republic of macedonia

**yugoslavia (macedonia)***INIS: 1997-06-05; ETDE: 1998-04-10*

USE the former yugoslav republic of macedonia

**yugoslavia r-a reactor vinca**

USE r-a reactor

**yugoslavia r-b reactor vinca**

USE r-b reactor

**YUKAWA NONLOCAL THEORY***UF* non-local quantum field theory*UF* nonlocal quantum field theory

\*BT1 quantum field theory

**YUKAWA POTENTIAL**

\*BT1 nuclear potential

*RT* nucleon-nucleon potential*RT* nucleons**YUKON RIVER***INIS: 1992-06-04; ETDE: 1978-10-25*

\*BT1 rivers

*RT* alaska**YUKON TERRITORY***INIS: 1979-01-18; ETDE: 1979-02-23*

\*BT1 canada

**YVON METHOD**

BT1 calculation methods

*RT* neutron transport theory*RT* spherical harmonics*RT* transport theory**Z CENTERS**

\*BT1 color centers

**Z CODES**

BT1 computer codes

**Z NEUTRAL BOSONS**

*INIS: 1986-03-04; ETDE: 1985-10-11*  
(Prior to October 1985 this concept was indexed to INTERMEDIATE VECTOR BOSONS in ETDE.)

\*BT1 intermediate vector bosons

**z pinch devices (linear)**

USE linear z pinch devices

**Z\*BARYONS**

*INIS: 1995-07-17; ETDE: 1988-03-11*  
(Prior to December 1987 this concept was indexed by Z\*RESONANCES.)

UF z\*resonances

\*BT1 hyperons

**z\*resonances**

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

USE z\*baryons

**ZACHARIASEN MODEL**

RT quantum field theory

**zaire republic**

*1997-08-20*

(Until August 1997 this was a valid descriptor.)

USE democratic republic of the congo

**ZAMAK**

*2000-04-12*

\*BT1 aluminium alloys

\*BT1 cadmium additions

\*BT1 copper alloys

\*BT1 iron additions

\*BT1 magnesium additions

\*BT1 tin additions

\*BT1 zinc base alloys

**ZAMBIA**

UF northern rhodesia

UF rhodesia (northern)

BT1 africa

BT1 developing countries

**ZAPOROZHE-1 REACTOR**

*INIS: 1984-08-23; ETDE: 1984-09-20*

Ukraine.

\*BT1 wwer type reactors

**ZAPOROZHE-2 REACTOR**

*INIS: 1986-12-09; ETDE: 1987-02-24*

Ukraine.

\*BT1 wwer type reactors

**ZAPOROZHE-3 REACTOR**

*INIS: 1990-01-29; ETDE: 1990-02-13*

Ukraine.

\*BT1 wwer type reactors

**ZAPOROZHE-4 REACTOR**

*INIS: 1990-01-29; ETDE: 1990-02-13*

Ukraine.

\*BT1 wwer type reactors

**ZAPOROZHE-5 REACTOR**

*2001-02-21*

Ukraine.

\*BT1 wwer type reactors

**ZAPOROZHE-6 REACTOR**

*2001-02-21*

Ukraine.

\*BT1 wwer type reactors

**zarnowiec reactor**

*INIS: 2000-04-12; ETDE: 1977-03-04*

(Prior to May 2001, this was a valid ETDE

descriptor with BT1 PWR TYPE

REACTORS.)

USE wwr type reactors

**zea mays**

USE maize

**ZEBRA REACTOR**

UKAEA, Winfrith, United Kingdom.

UF zero energy breeder reactor assembly

\*BT1 fbr type reactors

\*BT1 research reactors

\*BT1 zero power reactors

RT enriched uranium reactors

RT plutonium reactors

**ZED-2 REACTOR**

UF chalk river zed-2 reactor

UF organic cooled and heavy water

moderated chalk river reactor

UF organic cooled heavy water

moderated chalk river reactor

\*BT1 air cooled reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 natural uranium reactors

\*BT1 organic cooled reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

**ZEEMAN EFFECT**

UF zeeman resonance

UF zeeman spectrum

UF zeeman transition

RT double resonance methods

RT magnetic fields

RT magneto-optical effects

RT paschen-back effect

RT spectral shift

**zeeman resonance**

USE zeeman effect

**zeeman spectrum**

USE zeeman effect

**zeeman transition**

USE zeeman effect

**ZEEP REACTOR**

UF zero energy experimental pile

\*BT1 heavy water moderated reactors

\*BT1 natural uranium reactors

\*BT1 plutonium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 zero power reactors

**ZEIN**

*INIS: 2000-04-12; ETDE: 1986-01-24*

A protein powder derived from maize that contributes the major portion of the protein nutrient value of corn.

\*BT1 proteins

RT maize

**zemach-glauber formalism**

*1996-07-15*

(Until June 1996 this was a valid descriptor.)

SEE scattering

SEE thermal neutrons

**zener diodes**

USE junction diodes

**ZENITH REACTOR**

UF zero energy nitrogen heated thermal reactor

\*BT1 graphite moderated reactors

\*BT1 nitrogen cooled reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 zero power reactors

RT enriched uranium reactors

RT plutonium reactors

RT thorium reactors

**zentralinstitut fuer isotopen- und strahlenforschung leipzig**

*INIS: 1993-11-10; ETDE: 2002-05-24*

USE zfi leipzig

**zentralinstitut fuer kernforschung**

*INIS: 1993-11-10; ETDE: 1991-05-17*

USE zfk rossendorf

**ZEOLITES**

A class of hydrated silicates of aluminium and either sodium or calcium or both.

(From April 1975 until March 1996

ANALCIME was a valid ETDE descriptor.)

UF analcime

\*BT1 inorganic ion exchangers

\*BT1 silicate minerals

NT1 clinoptilolite

NT1 faujasite

NT1 heulandite

NT1 laumontite

NT1 mordenite

NT1 wairakite

RT desiccants

**ZEPHYR REACTOR**

UF zero energy fast reactor-zephyr

\*BT1 fast reactors

\*BT1 materials testing reactors

\*BT1 natural uranium reactors

\*BT1 plutonium reactors

\*BT1 zero power reactors

**zeran linac**

*INIS: 1996-07-23; ETDE: 1979-05-25*

(Until July 1996 this was a valid descriptor.)

USE linear accelerators

**ZERLINA REACTOR**

Bhabha Atomic Research Centre, Trombay, Maharashtra, India.

UF zero energy reactor for lattice invest. and new assemblies

\*BT1 heavy water moderated reactors

\*BT1 organic moderated reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 zero power reactors

**zero-emission vehicles**

*2005-07-05*

USE low-emission vehicles

**zero energy balance**

*ETDE: 1976-05-19*

USE breakeven

**zero energy breeder reactor assembly**

*1993-11-10*

USE zebra reactor

**zero energy experimental pile**

USE zeep reactor

**zero energy fast reactor-zephyr**

*1993-11-10*

USE zephyr reactor

**zero energy nitrogen heated thermal reactor**

*1993-11-10*

USE zenith reactor

**zero energy reactor for lattice invest. and new assemblies**

1993-11-10

USE zerlina reactor

**zero gradient synchrotron**

USE zgs

**zero gravity**

INIS: 2000-04-12; ETDE: 1981-12-21

USE weightlessness

**zero power critical experiment minerve**

2000-04-12

USE minerve reactor

**zero power reactor (cornell university)**

INIS: 1993-11-10; ETDE: 2002-05-24

USE zpr reactor

**ZERO POWER REACTORS**

1995-12-08

UF cepfr-1 reactor

UF critical assemblies

UF hitrex-2 reactor

UF in-core thermionic reactor

UF itr reactor

UF sr-0f reactor

UF thermionic reactor critical experiments

UF trce(thermionic reactor critical experiments)

SF berkeley nuclear laboratory reactor

SF bnl reactor

SF fecel reactor

\*BT1 experimental reactors

NT1 agata reactor

NT1 akr-1 reactor

NT1 anex reactor

NT1 anna reactor

NT1 apfa-3 reactor

NT1 aquilon reactor

NT1 bfs reactor

NT1 big ten reactor

NT1 cfrmf reactor

NT1 cml reactor

NT1 coral-1 reactor

NT1 crocus reactor

NT1 dca reactor

NT1 dimple reactor

NT1 ecel reactor

NT1 ermine reactor

NT1 etrc reactor

NT1 fca reactor

NT1 flattop reactor

NT1 fr-0 reactor

NT1 godiva reactor

NT1 hero reactor

NT1 hitrex-1 reactor

NT1 horace reactor

NT1 hwzpr reactor

NT1 iea-zpr reactor

NT1 ifr reactor

NT1 ipen-mb-1 reactor

NT1 jezebel reactor

NT1 juno reactor

NT1 kahter reactor

NT1 kbr-1 reactor

NT1 kritz reactor

NT1 kuca reactor

NT1 lptf reactor

NT1 lr-0 reactor

NT1 lvr-15 reactor

NT1 marius reactor

NT1 maryla reactor

NT1 masurca reactor

NT1 minerve reactor

NT1 neptune reactor

NT1 nsf-rfp reactor

NT1 or-cef reactor

NT1 ornl-pca reactor

NT1 parka reactor

NT1 pdp reactor

NT1 peggy reactor

NT1 pelinduna reactor

NT1 plasma core assembly

NT1 prcf reactor

NT1 ptf-unc reactor

NT1 purnima-2 reactor

NT1 purnima reactor

NT1 r-b reactor

NT1 ra-0 reactor

NT1 ra-2 reactor

NT1 ra-8 reactor

NT1 rake-2 reactor

NT1 rb-1 reactor

NT1 rb-3 reactor

NT1 rensseleer critical facility

NT1 ritmo reactor

NT1 rospo reactor

NT1 saref reactor

NT1 shca reactor

NT1 silene reactor

NT1 siloette reactor

NT1 sneak reactor

NT1 split table reactor

NT1 sr-0a reactor

NT1 stacy reactor

NT1 tca reactor

NT1 tr-0 reactor

NT1 tracy reactor

NT1 vera reactor

NT1 zebra reactor

NT1 zeep reactor

NT1 zenith reactor

NT1 zephyr reactor

NT1 zerlina reactor

NT1 zlfr reactor

NT1 zppr reactor

NT1 zpr-3 reactor

NT1 zpr-6 reactor

NT1 zpr-9 reactor

NT1 zpr reactor

NT1 zr-6 reactor

RT reactor lattices

**zero power research reactor-3 (anl)**

INIS: 1993-11-10; ETDE: 2002-05-24

USE zpr-3 reactor

**zero power research reactor-6 (anl)**

INIS: 1993-11-10; ETDE: 2002-05-24

USE zpr-6 reactor

**zero power research reactor-9 (anl)**

INIS: 1993-11-10; ETDE: 2002-05-24

USE zpr-9 reactor

**ZERO-RANGE APPROXIMATION**

\*BT1 approximations

RT elastic scattering

RT finite-range interactions

RT nuclear reaction kinetics

**ZERO SOUND**

RT sound waves

RT superfluidity

RT wave propagation

**zet pinch**

USE longitudinal pinch

**ZETA DEVICES**

\*BT1 tlp devices

**zeunerite**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE oxide minerals

USE uranium minerals

**ZFI LEIPZIG**

INIS: 1986-05-23; ETDE: 1986-11-18

Zentralinstitut fuer Isotopen- und Strahlenforschung, Leipzig.

UF institut fuer isotopen- und strahlenforschung leipzig

UF leipzig zfi

UF zentralinstitut fuer isotopen- und strahlenforschung leipzig

\*BT1 german fr organizations

**ZFK ROSSENDORF**

INIS: 1977-02-08; ETDE: 1977-04-13

Zentralinstitut fuer Kernforschung, Rossendorf, Germany.

UF rossendorf zfk

UF zentralinstitut fuer kernforschung

\*BT1 german fr organizations

**ZGS**

UF argonne zgs

UF zero gradient synchrotron

\*BT1 synchrotrons

**zhuravlev process**

2000-04-12

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**ZIEGLER CATALYST**

BT1 catalysts

RT catalysis

**ZIMBABWE**

INIS: 1980-09-12; ETDE: 1980-10-07

(Prior to October 1980 this concept was indexed to SOUTHERN RHODESIA in ETDE.)

BT1 africa

BT1 developing countries

NT1 southern rhodesia

**ZIMMER-1 REACTOR**

Cincinnati Gas and Electric Co., Moscow, Ohio, USA. Canceled in 1984 before construction began.

UF william h. zimmer-1 reactor

\*BT1 bwr type reactors

**ZIMMER-2 REACTOR**

1980-02-26

Cincinnati Gas and Electric Co., Moscow, Ohio, USA. Canceled in 1978 before construction began.

UF william h. zimmer-2 reactor

\*BT1 bwr type reactors

**ZINC**

\*BT1 metals

**ZINC 54**

2008-01-28

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 proton decay radioisotopes

\*BT1 zinc isotopes

**ZINC 55**

2008-01-28

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 proton decay radioisotopes

\*BT1 zinc isotopes

**ZINC 56**

2008-01-28

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 proton decay radioisotopes
- \*BT1 zinc isotopes

**ZINC 57**

INIS: 1976-05-05; ETDE: 1976-06-07

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 58**

INIS: 1986-09-26; ETDE: 1984-05-08

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zinc isotopes

**ZINC 59**

INIS: 1982-06-09; ETDE: 1982-03-10

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 60**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zinc isotopes

**ZINC 61**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zinc isotopes

**ZINC 62**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 zinc isotopes

**ZINC 63**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zinc isotopes

**ZINC 64**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zinc isotopes

**ZINC 64 REACTIONS**

INIS: 1983-10-14; ETDE: 1983-11-09

- \*BT1 heavy ion reactions

**ZINC 64 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZINC 65**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

- \*BT1 zinc isotopes

**ZINC 65 TARGET**

INIS: 1984-05-24; ETDE: 1984-02-10

- BT1 targets

**ZINC 66**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zinc isotopes

**ZINC 66 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZINC 67**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zinc isotopes

**ZINC 67 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZINC 68**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zinc isotopes

**ZINC 68 REACTIONS**

INIS: 1976-03-02; ETDE: 1976-04-19

- \*BT1 heavy ion reactions

**ZINC 68 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZINC 69**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 zinc isotopes

**ZINC 70**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zinc isotopes

**ZINC 70 REACTIONS**

INIS: 1978-02-23; ETDE: 1978-05-01

- \*BT1 heavy ion reactions

**ZINC 70 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZINC 71**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zinc isotopes

**ZINC 72**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zinc isotopes

**ZINC 73**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 74**

1976-11-08

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zinc isotopes

**ZINC 75**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 76**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 77**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 78**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 79**

INIS: 1977-06-13; ETDE: 1976-07-07

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 80**

INIS: 1985-06-07; ETDE: 1985-07-18

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 81**

1992-03-18

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 82**

2008-01-28

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zinc isotopes

**ZINC 83**

2008-01-28

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zinc isotopes

**ZINC ADDITIONS**

Alloys containing not more than 1% Zn are listed here.

- \*BT1 zinc alloys
- NT1 nickeline alloy

**ZINC-AIR BATTERIES**

2000-04-12

\*BT1 metal-gas batteries

**ZINC ALLOYS**

1996-06-28

*Alloys containing more than 1% Zn.*

UF german silver

UF nickel silver

UF white copper

BT1 alloys

NT1 brass

NT2 brass-alpha

NT2 brass-beta

NT1 lynite

NT1 magnesium alloy-az31b

NT1 magnesium alloy-ez

NT1 magnesium alloy-zr

NT1 muntz metal

NT1 ounce metal

NT1 zinc additions

NT2 nickeline alloy

NT1 zinc base alloys

NT2 zamak

**ZINC ARSENIDES**

1978-07-03

\*BT1 arsenides

BT1 zinc compounds

**ZINC BASE ALLOYS**

\*BT1 zinc alloys

NT1 zamak

**ZINC BORIDES**

\*BT1 borides

BT1 zinc compounds

**ZINC BROMIDES**

\*BT1 bromides

\*BT1 zinc halides

**ZINC-BROMINE BATTERIES**

INIS: 1992-09-30; ETDE: 1979-02-23

\*BT1 metal-nonmetal batteries

**ZINC CARBIDES**

\*BT1 carbides

BT1 zinc compounds

**ZINC CARBONATES**

\*BT1 carbonates

BT1 zinc compounds

**ZINC CHLORIDES**

\*BT1 chlorides

\*BT1 zinc halides

**ZINC-CHLORINE BATTERIES**

2000-04-12

\*BT1 metal-gas batteries

**ZINC COMPLEXES**

BT1 complexes

**ZINC COMPOUNDS**

1997-06-19

NT1 zinc arsenides

NT1 zinc borides

NT1 zinc carbides

NT1 zinc carbonates

NT1 zinc halides

NT2 zinc bromides

NT2 zinc chlorides

NT2 zinc fluorides

NT2 zinc iodides

NT1 zinc hydrides

NT1 zinc hydroxides

NT1 zinc nitrates

NT1 zinc nitrides

NT1 zinc oxides

NT1 zinc perchlorates

NT1 zinc phosphates

NT1 zinc phosphides

NT1 zinc selenides

NT1 zinc silicates

NT1 zinc silicides

NT1 zinc sulfates

NT1 zinc sulfides

NT1 zinc tellurides

NT1 zinc tungstates

NT1 zincates

**zinc distillation process**

INIS: 1980-07-24; ETDE: 1979-12-10

USE pyrochemical reprocessing

**ZINC FLUORIDES**

\*BT1 fluorides

\*BT1 zinc halides

**zinc halide process**

INIS: 2000-04-12; ETDE: 1976-07-07

*Conoco Coal Development Company process**using zinc halide catalyst for the**hydrogenation and hydrocracking of coal**extract and of subbituminous coal.*

(Prior to March 1994, this was a valid ETDE

descriptor.)

USE coal liquefaction

**ZINC HALIDES**

1991-09-16

\*BT1 halides

BT1 zinc compounds

NT1 zinc bromides

NT1 zinc chlorides

NT1 zinc fluorides

NT1 zinc iodides

**ZINC HYDRIDES**

1976-11-08

\*BT1 hydrides

BT1 zinc compounds

**ZINC HYDROXIDES**

\*BT1 hydroxides

BT1 zinc compounds

**ZINC IODIDES**

\*BT1 iodides

\*BT1 zinc halides

**ZINC IONS**

\*BT1 ions

**ZINC ISOTOPES**

1999-07-16

BT1 isotopes

NT1 zinc 54

NT1 zinc 55

NT1 zinc 56

NT1 zinc 57

NT1 zinc 58

NT1 zinc 59

NT1 zinc 60

NT1 zinc 61

NT1 zinc 62

NT1 zinc 63

NT1 zinc 64

NT1 zinc 65

NT1 zinc 66

NT1 zinc 67

NT1 zinc 68

NT1 zinc 69

NT1 zinc 70

NT1 zinc 71

NT1 zinc 72

NT1 zinc 73

NT1 zinc 74

NT1 zinc 75

NT1 zinc 76

NT1 zinc 77

NT1 zinc 78

NT1 zinc 79

NT1 zinc 80

NT1 zinc 81

NT1 zinc 82

NT1 zinc 83

**ZINC-MANGANESE BATTERIES**

2000-04-12

\*BT1 metal-metal oxide batteries

**ZINC NITRATES**

\*BT1 nitrates

BT1 zinc compounds

**ZINC NITRIDES**

2000-04-12

\*BT1 nitrides

BT1 zinc compounds

**ZINC ORES**

BT1 ores

**ZINC OXIDES**

\*BT1 oxides

BT1 zinc compounds

**ZINC PERCHLORATES**

2000-04-12

\*BT1 perchlorates

BT1 zinc compounds

**ZINC PHOSPHATES**

\*BT1 phosphates

BT1 zinc compounds

**ZINC PHOSPHIDE SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-01-30

\*BT1 solar cells

**ZINC PHOSPHIDES**

INIS: 1978-04-21; ETDE: 1975-12-16

\*BT1 phosphides

BT1 zinc compounds

**ZINC SELENIDES**

\*BT1 selenides

BT1 zinc compounds

**ZINC SILICATES**

\*BT1 silicates

BT1 zinc compounds

**ZINC SILICIDES**

2000-04-12

\*BT1 silicides

BT1 zinc compounds

**ZINC SULFATES**

\*BT1 sulfates

BT1 zinc compounds

**ZINC SULFIDE SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

\*BT1 solar cells

**ZINC SULFIDES**

\*BT1 inorganic phosphors

\*BT1 sulfides

BT1 zinc compounds

**ZINC TELLURIDES**

1976-02-11

\*BT1 tellurides

BT1 zinc compounds

**ZINC TUNGSTATES**

INIS: 1981-11-25; ETDE: 1982-01-07

\*BT1 tungstates

BT1 zinc compounds

**ZINCATES**

INIS: 2000-04-12; ETDE: 1976-03-11

BT1 zinc compounds

**ZION-1 REACTOR**

*Commonwealth Edison Co., Zion, Illinois,  
USA. Shut down in 1997.  
UF zion station unit-1  
\*BT1 pwr type reactors*

**ZION-2 REACTOR**

*Commonwealth Edison Co., Zion, Illinois,  
USA. Shut down in 1996.  
UF zion station unit-2  
\*BT1 pwr type reactors*

**zion station unit-1**

USE zion-1 reactor

**zion station unit-2**

USE zion-2 reactor

**zippeite**

*1997-01-28  
(Until October 1996 this was a valid  
descriptor.)  
USE sulfate minerals  
USE uranium minerals*

**ZIRCALOY**

*For unspecified Zircaloy alloys.  
\*BT1 zirconium base alloys  
NT1 alloy-zr98sn-2  
NT2 zircaloy 2  
NT1 alloy-zr98sn-4  
NT2 zircaloy 4*

**ZIRCALOY 2**

*1993-10-03  
\*BT1 alloy-zr98sn-2*

**ZIRCALOY 4**

*1993-10-03  
\*BT1 alloy-zr98sn-4*

**ZIRCON**

*\*BT1 silicate minerals  
RT caldasite  
RT zirconium silicates*

**ZIRCONATES**

*Specific compounds should be indexed by  
coordination of a descriptor of the form  
(CATION) COMPOUNDS and the above  
anion descriptor.*

*BT1 oxygen compounds  
\*BT1 zirconium compounds  
NT1 plzt  
NT1 pzt  
RT zirconium oxides*

**ZIRCONIUM**

*\*BT1 transition elements  
NT1 zirconium-alpha  
NT1 zirconium-beta  
NT1 zirconium-omega*

**ZIRCONIUM 100**

*\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 zirconium isotopes*

**ZIRCONIUM 101**

*\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 zirconium isotopes*

**ZIRCONIUM 102**

*\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 zirconium isotopes*

**ZIRCONIUM 103**

*\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 zirconium isotopes*

**ZIRCONIUM 104**

*\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 zirconium isotopes*

**ZIRCONIUM 105**

*2006-09-04  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 zirconium isotopes*

**ZIRCONIUM 106**

*2007-05-14  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 zirconium isotopes*

**ZIRCONIUM 107**

*2007-05-14  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 zirconium isotopes*

**ZIRCONIUM 108**

*2007-05-14  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 zirconium isotopes*

**ZIRCONIUM 109**

*2006-09-04  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 nanoseconds living radioisotopes  
\*BT1 zirconium isotopes*

**ZIRCONIUM 110**

*2007-05-14  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 zirconium isotopes*

**ZIRCONIUM 78**

*2007-05-14  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 zirconium isotopes*

**ZIRCONIUM 79**

*2007-05-14  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 zirconium isotopes*

**ZIRCONIUM 80**

*\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 zirconium isotopes*

**ZIRCONIUM 81**

*\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei*

*\*BT1 minutes living radioisotopes  
\*BT1 zirconium isotopes*

**ZIRCONIUM 82**

*\*BT1 beta-plus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 zirconium isotopes*

**ZIRCONIUM 83**

*\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 zirconium isotopes*

**ZIRCONIUM 84**

*\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 zirconium isotopes*

**ZIRCONIUM 85**

*\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 seconds living radioisotopes  
\*BT1 zirconium isotopes*

**ZIRCONIUM 86**

*\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 zirconium isotopes*

**ZIRCONIUM 87**

*\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 seconds living radioisotopes  
\*BT1 zirconium isotopes*

**ZIRCONIUM 88**

*\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 zirconium isotopes*

**ZIRCONIUM 89**

*\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 zirconium isotopes*

**ZIRCONIUM 90**

*\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 stable isotopes  
\*BT1 zirconium isotopes*

**ZIRCONIUM 90 REACTIONS**

*INIS: 1984-06-21; ETDE: 1984-07-10  
\*BT1 heavy ion reactions*

**ZIRCONIUM 90 TARGET***ETDE: 1976-07-09*

BT1 targets

**ZIRCONIUM 91**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 91 TARGET***ETDE: 1976-07-09*

BT1 targets

**ZIRCONIUM 92**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 92 REACTIONS***INIS: 1985-01-17; ETDE: 1985-02-22*

\*BT1 heavy ion reactions

**ZIRCONIUM 92 TARGET***ETDE: 1976-07-09*

BT1 targets

**ZIRCONIUM 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 years living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 93 TARGET***INIS: 1986-01-21; ETDE: 1981-08-21*

BT1 targets

**ZIRCONIUM 94**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 94 TARGET***ETDE: 1976-07-09*

BT1 targets

**ZIRCONIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 96**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 96 REACTIONS***INIS: 1985-01-17; ETDE: 1985-02-22*

\*BT1 heavy ion reactions

**ZIRCONIUM 96 TARGET***ETDE: 1976-07-09*

BT1 targets

**ZIRCONIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM ADDITIONS***1996-07-17**Alloys containing not more than 1% Zr are listed here.*

- \*BT1 zirconium alloys
- NT1 alloy-in-102
- NT1 alloy-mo99
- NT2 alloy-tzm
- NT2 alloy-zm-2a
- NT1 alloy-mo99b
- NT1 alloy-n-10m
- NT1 alloy-n-9m
- NT1 alloy-ni43fe33cr16mo3
- NT2 nimonic pe16
- NT1 alloy-ni46cr23co19ti5al4
- NT2 alloy-in-939
- NT1 alloy-ni55co17cr15mo5al4ti4
- NT2 astroloy
- NT1 alloy-ni58cr20co14mo4ti3
- NT2 waspaloy
- NT1 alloy-ni59cr20co17ti2
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ni74cr13al6mo4
- NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5
- NT2 inconel 713lc
- NT1 alloy-ni76cr20ti2
- NT2 nimonic 80a
- NT1 magnesium alloy-ek
- NT1 magnesium alloy-ez
- NT1 magnesium alloy-hk31a
- NT1 rene 80
- NT1 rene 95

**ZIRCONIUM ALLOYS***1995-02-27**Alloys containing more than 1% Zr.*

- UF transage 129
- UF transage 134
- \*BT1 transition element alloys
- NT1 alloy-c-103
- NT1 alloy-ti89al6mo3
- NT1 alloy-ti90al6
- NT1 alloy-u90nb7zr3
- NT1 alloy-v87cr9fe3
- NT1 zirconium additions
- NT2 alloy-in-102
- NT2 alloy-mo99
- NT3 alloy-tzm
- NT3 alloy-zm-2a
- NT2 alloy-mo99b
- NT2 alloy-n-10m
- NT2 alloy-n-9m
- NT2 alloy-ni43fe33cr16mo3
- NT3 nimonic pe16
- NT2 alloy-ni46cr23co19ti5al4
- NT3 alloy-in-939
- NT2 alloy-ni55co17cr15mo5al4ti4
- NT3 astroloy
- NT2 alloy-ni58cr20co14mo4ti3
- NT3 waspaloy
- NT2 alloy-ni59cr20co17ti2
- NT2 alloy-ni60co15cr10al6ti5mo3
- NT3 alloy-in-100
- NT2 alloy-ni61cr16co9al3ti3w3
- NT3 alloy-in-738
- NT2 alloy-ni74cr13al6mo4
- NT3 inconel 713c
- NT2 alloy-ni75cr12al6mo5

- NT3 inconel 713lc
- NT2 alloy-ni76cr20ti2
- NT3 nimonic 80a
- NT2 magnesium alloy-ek
- NT2 magnesium alloy-ez
- NT2 magnesium alloy-hk31a
- NT2 rene 80
- NT2 rene 95
- NT1 zirconium base alloys
- NT2 alloy-zr97nb3
- NT2 zircaloy
- NT3 alloy-zr98sn-2
- NT4 zircaloy 2
- NT3 alloy-zr98sn-4
- NT4 zircaloy 4

**ZIRCONIUM-ALPHA**

\*BT1 zirconium

**ZIRCONIUM ARSENIDES***INIS: 1996-07-15; ETDE: 1976-12-16**(From June 1996 to February 2008**ZIRCONIUM COMPOUNDS + ARSENIDES**was used for this concept.)*

- \*BT1 arsenides
- \*BT1 zirconium compounds

**ZIRCONIUM BASE ALLOYS**

- \*BT1 zirconium alloys
- NT1 alloy-zr97nb3
- NT1 zircaloy
- NT2 alloy-zr98sn-2
- NT3 zircaloy 2
- NT2 alloy-zr98sn-4
- NT3 zircaloy 4

**ZIRCONIUM-BETA**

\*BT1 zirconium

**ZIRCONIUM BORIDES**

- \*BT1 borides
- \*BT1 zirconium compounds

**ZIRCONIUM BROMIDES**

- \*BT1 bromides
- \*BT1 zirconium compounds

**ZIRCONIUM CARBIDES**

- \*BT1 carbides
- \*BT1 zirconium compounds

**ZIRCONIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 zirconium compounds

**ZIRCONIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 zirconium compounds

**ZIRCONIUM COMPLEXES**

\*BT1 transition element complexes

**ZIRCONIUM COMPOUNDS***1996-07-08*

- BT1 transition element compounds
- NT1 zirconates
- NT2 plzt
- NT2 pzt
- NT1 zirconium arsenides
- NT1 zirconium borides
- NT1 zirconium bromides
- NT1 zirconium carbides
- NT1 zirconium carbonates
- NT1 zirconium chlorides
- NT1 zirconium fluorides
- NT1 zirconium hydrides
- NT1 zirconium hydroxides
- NT1 zirconium iodides
- NT1 zirconium nitrates
- NT1 zirconium nitrides
- NT1 zirconium oxides
- NT1 zirconium perchlorates
- NT1 zirconium phosphates

NT1 zirconium phosphides  
 NT1 zirconium selenides  
 NT1 zirconium silicates  
 NT1 zirconium silicides  
 NT1 zirconium sulfates  
 NT1 zirconium sulfides  
 NT1 zirconium tellurides  
 NT1 zirconium tungstates

**ZIRCONIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 zirconium compounds

**ZIRCONIUM HYDRIDES**

\*BT1 hydrides  
 \*BT1 zirconium compounds  
 RT hydride moderators

**ZIRCONIUM HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 zirconium compounds

**ZIRCONIUM IODIDES**

\*BT1 iodides  
 \*BT1 zirconium compounds

**ZIRCONIUM IONS**

\*BT1 ions

**ZIRCONIUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 zirconium 100  
 NT1 zirconium 101  
 NT1 zirconium 102  
 NT1 zirconium 103  
 NT1 zirconium 104  
 NT1 zirconium 105  
 NT1 zirconium 106  
 NT1 zirconium 107  
 NT1 zirconium 108  
 NT1 zirconium 109  
 NT1 zirconium 110  
 NT1 zirconium 78  
 NT1 zirconium 79  
 NT1 zirconium 80  
 NT1 zirconium 81  
 NT1 zirconium 82  
 NT1 zirconium 83  
 NT1 zirconium 84  
 NT1 zirconium 85  
 NT1 zirconium 86  
 NT1 zirconium 87  
 NT1 zirconium 88  
 NT1 zirconium 89  
 NT1 zirconium 90  
 NT1 zirconium 91  
 NT1 zirconium 92  
 NT1 zirconium 93  
 NT1 zirconium 94  
 NT1 zirconium 95  
 NT1 zirconium 96  
 NT1 zirconium 97  
 NT1 zirconium 98  
 NT1 zirconium 99

**ZIRCONIUM NITRATES**

\*BT1 nitrates  
 \*BT1 zirconium compounds

**ZIRCONIUM NITRIDES**

\*BT1 nitrides  
 \*BT1 zirconium compounds

**ZIRCONIUM-OMEGA**

\*BT1 zirconium

**ZIRCONIUM ORES**

1986-03-04

BT1 ores

**ZIRCONIUM OXIDES**

\*BT1 oxides

\*BT1 zirconium compounds  
 RT baddeleyite  
 RT marignacite  
 RT naegite  
 RT nogizawalite  
 RT oxide minerals  
 RT zirconates  
 RT zirconolite

**ZIRCONIUM PERCHLORATES**

INIS: 1981-02-27; ETDE: 1978-03-03

\*BT1 perchlorates  
 \*BT1 zirconium compounds

**ZIRCONIUM PHOSPHATES**

\*BT1 phosphates  
 \*BT1 zirconium compounds

**ZIRCONIUM PHOSPHIDES**

\*BT1 phosphides  
 \*BT1 zirconium compounds

**ZIRCONIUM SELENIDES**

\*BT1 selenides  
 \*BT1 zirconium compounds

**ZIRCONIUM SILICATES**

1996-11-13

\*BT1 silicates  
 \*BT1 zirconium compounds  
 RT alvite  
 RT lavenite  
 RT lovozerite  
 RT mesodialyte  
 RT silicate minerals  
 RT zircon

**ZIRCONIUM SILICIDES**

1976-11-08

\*BT1 silicides  
 \*BT1 zirconium compounds

**ZIRCONIUM SULFATES**

\*BT1 sulfates  
 \*BT1 zirconium compounds

**ZIRCONIUM SULFIDES**

\*BT1 sulfides  
 \*BT1 zirconium compounds

**ZIRCONIUM TELLURIDES**

INIS: 1976-11-08; ETDE: 1976-12-16

\*BT1 tellurides  
 \*BT1 zirconium compounds

**ZIRCONIUM TUNGSTATES**

1978-09-28

\*BT1 tungstates  
 \*BT1 zirconium compounds

**ZIRCONOLITE**

INIS: 1981-09-17; ETDE: 1981-06-13

\*BT1 oxide minerals  
 RT calcium oxides  
 RT synroc process  
 RT titanium oxides  
 RT zirconium oxides

**ZIRFLEX PROCESS**

\*BT1 reprocessing  
 RT solvent extraction

**zittauer lehr- und forschungsreaktor**

1980-11-07

USE zlftr reactor

**ZITTERBEWEGUNG**

RT quantum mechanics

**ZLFR REACTOR**

1980-11-07

Ingenieurhochschule, Zittau, Federal Republic of Germany.

UF wwr-s-zittau reactor

UF zittauer lehr- und forschungsreaktor

\*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
 \*BT1 zero power reactors

**ZODIACAL LIGHT**

UF gegenschein

UF light (zodiacal)

\*BT1 electromagnetic radiation  
 RT interplanetary space  
 RT solar radiation

**zoe reactor**

USE el-1 reactor

**ZONE MELTING**

UF floating zone techniques

BT1 crystal growth methods

\*BT1 melting

RT crystal growth

RT ribbon-to-ribbon method

**ZONE REFINING**

\*BT1 refining

BT1 separation processes

RT crystallization

RT metallurgy

RT reprocessing

**ZONES**

NT1 brillouin zones

NT1 guinier-preston zones

NT1 heat affected zone

**zones (auroral)**

USE auroral zones

**zones (rift)**

INIS: 2000-04-12; ETDE: 1980-11-08

USE rift zones

**zones (temperate)**

INIS: 2000-04-12; ETDE: 1980-11-08

USE temperate zones

**zoning**

INIS: 2000-04-12; ETDE: 1980-05-06

USE land use

**ZOOLOGY**

BT1 biology

**ZOOPLANKTON**

INIS: 1993-07-20; ETDE: 1977-01-10

(Until July 1993, this concept was indexed by PLANKTON.)

\*BT1 plankton

RT copepods

RT crustaceans

RT daphnia

RT protozoa

**ZORITA-1 REACTOR**

UF central nuclear de zorita-1

UF jose cabrera reactor

\*BT1 pwr type reactors

**ZPPR REACTOR**

ANL/INEEL, Idaho Falls, Idaho, USA. Zero power reactor. Shut down in 1992; in standby mode.

\*BT1 fast reactors

\*BT1 research reactors

\*BT1 zero power reactors



**ZPR-3 REACTOR**

ANL/INEEL, Idaho Falls, Idaho, USA.  
 Variously fueled, unmoderated, uncooled.  
 Shut down in 1970.

- UF anl zero power research reactor-3  
 UF zero power research reactor-3 (anl)  
 \*BT1 fast reactors  
 \*BT1 zero power reactors

**ZPR-6 REACTOR**

ANL, Argonne, Illinois, USA. Variously fueled,  
 unmoderated, uncooled. Shut down in 1981.

- UF anl zero power research reactor-6  
 UF zero power research reactor-6 (anl)  
 \*BT1 fast reactors  
 \*BT1 zero power reactors

**ZPR-9 REACTOR**

ANL, Argonne, Illinois, USA. Uncooled. Shut  
 down in 1982.

- UF anl zero power research reactor-9  
 UF zero power research reactor-9 (anl)  
 \*BT1 fast reactors  
 \*BT1 zero power reactors  
 RT breeder reactors  
 RT propulsion reactors

**ZPR REACTOR**

Cornell Univ., Ward Laboratory of Nuclear  
 Engineering, Ithaca, New York, USA.

- UF cornell university zero power reactor  
 UF zero power reactor (cornell  
 university)  
 \*BT1 enriched uranium reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors  
 \*BT1 zero power reactors

**ZR-6 REACTOR**

INIS: 1981-10-15; ETDE: 1975-07-29  
 Central Research Institute for Physics,  
 Budapest, Hungary.

- \*BT1 water cooled reactors  
 \*BT1 zero power reactors

**ZRR REACTOR**

Czechoslovakia.

- \*BT1 experimental reactors  
 \*BT1 fast reactors  
 \*BT1 sodium cooled reactors

**ZT-40 DEVICES**

INIS: 1978-04-21; ETDE: 1978-01-23  
 Los Alamos Experiment on reverse-field  
 pinch.

- \*BT1 reversed-field pinch devices  
 RT reverse-field pinch

**ZT-P DEVICES**

INIS: 1986-09-26; ETDE: 1986-04-11

- \*BT1 reversed-field pinch devices  
 RT reverse-field pinch

**zuni event**

INIS: 1994-10-14; ETDE: 1984-05-23  
 A test made during PROJECT REDWING.  
 (Prior to September 1994, this was a valid  
 ETDE descriptor.)

- USE nuclear explosions  
 USE surface explosions

**zwentendorf reactor**

INIS: 1982-09-21; ETDE: 1982-10-20

- USE tullnerfeld reactor

**ZWITTERIONIC COMPOUNDS**

2007-03-05

Neutral compounds having formal unit  
 electrical charges of opposite sign on different  
 atoms.

- UF zwitterions

BT1 polar compounds

**zwitterions**

2007-03-05

USE zwitterionic compounds

**ZYGOTES**

INIS: 1993-07-20; ETDE: 1976-02-20

- BT1 embryos  
 RT fertilization  
 RT gametes  
 RT ontogenesis  
 RT reproduction

**ZYMOMONAS MOBILIS**

INIS: 1993-07-20; ETDE: 1982-05-12

- \*BT1 bacteria  
 RT anaerobic conditions

**ZYMOSAN**

1996-07-23

A protein-carbohydrate complex isolated from  
 yeast used to activate the immune system in  
 response to microbial infection. The action of  
 zymosan derives from its ability to stimulate  
 properidin.

- RT complement  
 RT polysaccharides  
 RT yeasts