Selective Guide to

Literature on Nuclear Engineering

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INTRODUCTION

This guide presents selected reference sources for nuclear engineering. Nuclear engineering deals with the application of basic sciences to peaceful uses of nuclear energy from fission and fusion reactions, and of various forms of nuclear radiation. To reflect the interdisciplinary nature of the field, the guide also includes a limited selection of reference sources in related areas such as physics, mechanical engineering, and materials science.

The guide is intended for students, faculty, and practicing engineers and scientists in nuclear engineering, and for librarians. Reference sources are arranged in this guide in 12 sections and one appendix, with a brief description of the contents provided at the beginning of each section. Included are primarily materials published in English and those for which English translations are available. Although emphasis has been placed on current sources whenever possible, a few classical titles, albeit somewhat dated, are included for their continued research values. Annotations are provided for all sections, with the exception of those on journals and conferences. In general, standard engineering reference sources are excluded from the guide.

Effort has been made to provide representative sources within the scope of the guide. It is, however, not to be considered an exhaustive or comprehensive literature guide to nuclear science and engineering.
GUIDES TO THE LITERATURE

Many guides to engineering literature exist. Some are merely bibliographies to the literature; others discuss the phases of scientific information from its generation through research and development to its dissemination as well as describe the most important types of literature for engineering. Since many guides discuss engineering literature as a whole and many overlap in coverage, only those which present specific information on nuclear engineering are included here.


This guide covers the literature of nuclear energy and the organizations, which originate information in this field. Discusses the forms of literature as well as specific sources. Historical value.


This guide to various sources of information on energy is arranged by subject. Each chapter is written by a different author and begins with an overview of the subject, followed by a list of sources including books, reviews, journals, patents, conference proceedings, reports, encyclopedias, handbooks, dictionaries, standards, statistics and databooks, abstracts, indexes, bibliographies, and directories.


Compilation of information sources, computerized databases, computational methods, standards, and regulations related to nuclear energy and reactor engineering. Presents brief technical descriptions and discusses relevance of various data and information sources.


Up-to-date expository guide to engineering sources which devotes a chapter to nuclear power engineering.


This is a general guide intended primarily for use by librarians for locating reference material in all areas of science and technology. Energy and nuclear related titles are included in the sections on Nuclear and Atomic Engineering, Energy, and Physics.


The third revision includes 3,600 handbooks and tables in science, technology, and medicine. The emphasis is on data tabulations of physical and chemical values presented in handbooks, tables, manuals, or guides.
PRINTED AND ELECTRONIC INDEXES AND ABSTRACTS

The indexes and abstracts included in this section represent tools for locating articles, conference proceedings, reports, dissertations, patents, books, monographs, and other publications in nuclear engineering in the United States and other countries. Indexes included are in English; other useful foreign sources for locating information such as Bulletin Signaletique, Euro Abstracts, and Referativnyi Zhurnal are omitted for language reasons and because they tend to overlap with English-language sources covered in this section. Also excluded are general science and engineering sources such as Engineering Index, Applied Science and Technology Index, Government Reports Announcements and Index, Science Citation Index, and Current Contents. Since almost all indexes and abstracts are nowadays available either on CD-ROM, online, or on the Web, print indexes and abstracts (preceded by an *) are cross referenced to the equivalent database titles where full annotations are provided.

CD-ROM: Dialog OnDisc
Online/Web Vendors: Dialog, Cambridge Scientific Abstracts, SilverPlatter, STN

Covers worldwide resources for the scientific and technical literature on aeronautics, astronautics, and space sciences. It provides access to nuclear physics, energy, and other nuclear related technology topics. Covers two equivalent print abstracting journals: International Aerospace Abstracts and Scientific and Technical Aerospace Reports.

CD-ROM: Dialog OnDisc (DOE Energy Science and Technology)
Online/Web Vendors: Dialog, Gov.Research_Center, STN

The database sources are provided by the U.S. Department of Energy (DOE), Energy Technology Data Exchange (ETDE), and International Nuclear Information System (INIS). Covers all types of energy and related topics including nuclear energy.

See Energy Science and Technology Database.

See INIS Database.

CD-ROM: International Nuclear Information System (INIS), SilverPlatter
Online/Web Vendors: International Nuclear Information System (INIS), SilverPlatter, STN

The International Nuclear Information System, a cooperative decentralized information system, is a major abstracting service for nuclear engineering and is international in scope.
Set up by the above agency and its member states, it identifies publications relating to nuclear science and its peaceful applications.

CD-ROM: Dialog OnDisc, IEEE/IEE Electronic Library (IEL)  
Online/Web Vendors: Dialog, DataStar, Institute of Physics, Ovid, Questel-Orbit, SilverPlatter, STN

The database covers three print indexes: Physics Abstracts, Electrical and Electronics Abstracts, and Computer and Control Abstracts. It is the most comprehensive abstracting journal in the areas of electrical engineering and electronics, and physics and computer science. It includes nuclear science and physics and energy.

CD-ROM: Dialog OnDisc (Aerospace Database)  
Online/Web Vendors: Cambridge Scientific Abstracts, DIALOG, SilverPlatter, STN

Covers worldwide literature on aeronautics and space science and technology, including nuclear-related topics, in journals, conference papers, and translations of journal articles. Published on the 1st and 15th of each month alternating with Scientific and Technical Aerospace Reports, which covers technical reports published by NASA and other government agencies. See also Aerospace Database.

CD-ROM: Dialog OnDisc  
Online/Web Vendors: Dialog, DataStar, Cambridge Scientific Abstracts, Questel-Orbit, STN

Covers all aspects of materials science and engineering with sources provided by Metals Abstracts, Materials Business file, and Engineered Materials Abstracts. Includes nuclear related materials and processing.

CD-ROM: Dialog OnDisc (Metadex)  
Online/Web Vendors: Cambridge Scientific Abstracts DataStar, Dialog, Questel-Orbit, STN

Major indexing service for metallurgy, which includes nuclear-related material. Separate indexes by subject and author are issued each month, and these cumulate annually. See also Metadex.

CD-ROM: Dialog OnDisc  
Online/Web Vendors: Dialog

Abstracts and indexes the nuclear science literature. Includes the scientific and technical reports of the U.S. Atomic Energy Commission and Energy Research and Development Administration.

CD-ROM: Dialog OnDisc (INSPEC)
Physics Abstracts is Section A of Science Abstracts and is a comprehensive index to modern physics literature in journals, reports, books, dissertations, patents, and conference papers published in all languages. See also INSPEC.

CD-ROM: Dialog OnDisc (Aerospace Database)
Online/Web Vendors: Dialog, Cambridge Scientific Abstracts

Coverage includes technical reports of NASA and other government agencies and contractors, patents, translations, and dissertations. Published on the 8th and 23rd of each month alternating with International Aerospace Abstracts (IAA). Covers identical subject categories as in IAA. See also Aerospace Database.


Indexes information received or generated by the U.S. Nuclear Regulatory Commission. Items are arranged within the docketed and non-docketed categories, with indexes by personal and corporate author, and report number.
This section presents dictionaries listing definitions of terms, acronyms, and abbreviations used in nuclear science and engineering.


This list of 7,800 English terms has been expanded and revised from the 1958 edition of 4,000 terms. Each entry consists of a one-sentence definition and a list of equivalent terms in five other languages. A separate index for each of the other five languages is included.


This replaces earlier publications USAS N1.1-1967 by the USA Standards Institute and ANS-9/ANSI N1.1-1976 by the American Nuclear Society. Included are terms for nuclear reactor physics, reactor shielding, and instrumentation, with an expanded coverage of terms relating to nuclear power technology and its utilization.


Provides definitions of terms used under the IAEA agreements regarding safeguards of strategic nuclear materials in civilian nuclear energy programs. Translations of terms into French, Russian, Spanish, German, and Japanese are also included.


A glossary of nuclear science and technology terms approved by the International Organization for Standardization. Terms are generally defined according to the specifications of the American National Standards Institute.


Provides definitions of words internationally used in the field of radioactive waste management. Terms that are used only in one country and those whose definitions are the same as in standard dictionaries are generally omitted.


The original 9-volume set includes a multilingual equivalency index for English, French, German, Spanish, Russian, and Japanese terms. Articles are fairly technical and contain cross references and bibliographies. Although dated, the work is still considered the major dictionary in the physics field.
ENCYCLOPEDIAS

For lack of encyclopedias devoted specifically to nuclear science and engineering, this section lists general science and engineering encyclopedias that include articles on nuclear subjects. Nuclear engineering topics are generally covered in physics or applied physics encyclopedias.


As one of the major reference tools in physics, provides a concise treatment of a wide range of topics including those related to nuclear science and engineering.


A concise encyclopedia covering physics and related topics.


Contains in-depth descriptions of major areas of physical science and technology including physics, chemistry, engineering, and earth science. Covers nuclear energy topics such as nuclear power reactors, reactor materials and fuels, nuclear safeguards, and fusion power. Each article is preceded by a glossary of terms specific to the subject.


Extensive treatment of subjects in all physics and related fields. Included are nuclear science and engineering topics such as nuclear structure, neutron scattering, nuclear fuels and isotopes, nuclear reactions, nuclear energy, and nuclear waste management. Annual update volumes are to be published.


The encyclopedia is the latest publication that covers comprehensive subjects in the electrical and electronics engineering. It covers a number of topics related to nuclear science and engineering, including radiation detection and monitoring, fission and fusion reactors, and nuclear power plants. Online version is also available.
This section presents a list of selected handbooks, databooks, and tables in various areas of nuclear engineering, including reactor physics and engineering, fusion and plasma physics, radiation effects in materials, radiation safety and protection, and nuclear measurements. A limited number of data sources in journal format are also included. Coverage of related areas in engineering and science is limited to a few standard handbooks.


Prepared under an international collaboration, presents data on thermodynamic and transport properties of water including viscosity, specific heat, thermal conductivity, surface tension, and dielectric constant.


Provides information on radiation measurement instruments, monitoring techniques, protective facilities, and radioactive materials handling and disposal.


This compilation of properties of nuclides emphasizes evaluated properties of nuclear radiation.  Includes data on isotopic abundance, decay energy, atomic mass excess, isotopic production method, and mass-chain decay scheme.  Most of the data are derived from the Evaluated Nuclear Structure Data File, which is maintained by the National Nuclear Data Center at Brookhaven National Laboratory.


An index to the literature on microscopic neutron data, this work covers bibliographic references, computerized numerical data on measurements, calculations, reviews, and evaluations of neutron cross sections and other microscopic neutron data.  The index covers literature compiled by four regional neutron data centers: U.S. National Nuclear Data Center, USSR Nuclear Data Centre, NEA Data Bank, and IAEA Nuclear Data Section.


Technical information is presented for 19 Materials Testing Reactors (power greater than 5 MW) and hot cell facilities in the European Community.  The data are presented in eight
categories including experimental irradiation facilities, neutron spectra, and post-irradiation examination facilities.


Covers data in broad fields of nuclear engineering, with special emphasis on reactor engineering. Includes theory and practice in such topics as reactor physics, materials, mechanical design and operation of reactors, fluid flow, heat transfer, isotopes production, and radiation shielding. Classic reference.


Provides detailed data on properties of nuclides, including mass-chain decay scheme, natural isotopic abundance, atomic mass excess, neutron cross section, type of decay, means of production, and detailed level scheme.


Compilation of significant experimental observations on the angular distribution of scattered neutrons and of the products of the reactions of fast neutrons with nuclei. Intended for use in nuclear reactor analysis and radiation shielding calculations, with emphasis on data for elastically scattered neutrons.


Updated as an NCRP report, covers procedures for radioactivity standardization and measurement of radioactivity for clinical and biological purposes. Included in the appendices are nuclear decay data for selected radionuclides.


Updated version of Technical Reports Series 156, *Handbook on Nuclear Activation Cross-Sections*. The handbook is divided into four sections: standard reference data, neutron activation, charged particle activation, and photonuclear activation. The handbook emphasizes evaluated and recommended data.


See *Neutron Cross Sections*.


Provides descriptions of various types of nuclear reactors as well as background information on issues related to reactor safety, uranium utilization, and radioactive waste disposal. Includes a number of illustrations for key nuclear power plant systems.

As the latest edition of what has been previously known as BNL-325, serves as a standard reference on neutron cross sections.


Presents experimental results on radioactivity, nuclear moments, nuclear reactions, and nuclear energy levels.


Widely used chart of stable and unstable nuclides. It presents important properties for each nuclide including neutron cross sections and radioactive decay schemes. Key physical constants, conversion factors, and the periodic table of elements are also included. Previous edition was titled Chart of the Nuclides.


Provides comprehensive coverage on nuclear power technology including nuclear fuel, power plant operation, nuclear materials, power plant components, radioactive waste disposal, safety, and regulations. Also included are historical perspectives on nuclear energy development and a number of tables on key aspects of nuclear technology.


Presents calculational methods for nuclear reactor analysis including nuclear cross section preparation, unit cell calculations, diffusion theory, and transport calculations. Volumes 2 and 3 cover additional topics including Monte Carlo calculations, in-core fuel management, thermal and fast reactor calculations, and control absorber calculations.


Extensive collection of data useful for nuclear reactor design and analysis: fission processes, selected nuclear cross sections, constants for thermal, intermediate and fast reactors, shielding constants, constants related to interpretation of experimental data, and properties of elements and reactor materials. Classic reference.


Provides information on a broad range of topics of interest in utilizing plutonium in various applications. Includes physics, chemistry, metallurgy, and engineering aspects of plutonium use, and health and safety considerations in plutonium handling.
DIRECTORIES – NUCLEAR INDUSTRIES AND ORGANIZATIONS

Directories of nuclear-related organizations and nuclear power plants are presented in this section. All of these directories contain certain common information in each entry. Typically this includes the address, telephone number, and often the name of either the director or a representative who serves as a public liaison for the organization.


A comprehensive collection of administrative, operational, and technical data for all non-power reactors in the U.S. The table of contents is alphabetically arranged by parent organization.


Information collected by the IAEA on non-power reactors. Includes administrative, technical, and utilization information on research reactors, training reactors, test reactors, and prototype reactors.


Provides general information on commercial nuclear power plants operating, planned or inactive throughout the world.


Published as the mid-March issue of Nuclear News. Buyers guide to nuclear products, materials, and suppliers.


This is the 15th edition of Reference Data series no. 2, Nuclear Power Reactors in the World, which replaces the IAEA publication Power Reactors in Member States. Provides a summary record on reactors operating or under construction, planned and shut down, including reactor types and net electrical power, construction date, grid connection date, commercialization date, and performance data.


Includes listings of key managers from the chairman of the board to the purchasing agent for both nuclear utilities and nuclear power plants worldwide. It covers both operating units and those under construction. Revised annually.


Published in the March issue of Nuclear News. Arranged alphabetically by country, the list gives general location but no address. Also includes power output, reactor type, reactor supplier, generator supplier, architect/engineer, constructor, stage in construction, and date of expected or actual commercial operation.

Provides detailed profiles of research laboratories and institutions that carry out all types of research in energy, including nuclear. Included are a variety of organizations with basic information concerning their activities.
DIRECTORIES – BIOGRAPHICAL

In addition to a rather limited number of biographical directories specifically related to the nuclear field, a number of general directories are included in this section. Given the age of the nuclear field, most of the sources listed here are current. As such they tend to contain information for locating the individual, vital statistics, and summary of the individual's expertise. Each entry typically includes home or work address, telephone number, educational level attained, employment record, and area of interest. Many entries also include organizational or society memberships and affiliations, or honors received.


Provides profiles of leading American scientists in the physical and biological sciences, engineers, computer scientists, mathematicians, and health scientists. Biographical data include research interests, concurrent positions, honors and awards, and society affiliations.


Provides biographical profiles of over 3,000 scientists and engineers in the areas of energy production and related industries.


National in scope, this has several indices, including one by state and another by the specialization of the individual. In addition to standard information, it lists major accomplishments in the field.


Includes 25,000 leading scientists and engineers in North America. Provides detailed access points by areas of expertise.
STANDARDS AND SPECIFICATIONS

Both within the United States and internationally there are many sources of standards concerning nuclear activity. These standards are primarily created by three types of organizations: societies and associations, governments, and industries. The foremost source of nuclear standards is the American Nuclear Society (ANS). The other primary sources are, in alphabetical order, the American National Standards Institute (ANSI), American Society for Testing and Materials (ASTM), American Society of Mechanical Engineers (ASME), Institute of Electrical and Electronics Engineers (IEEE), International Atomic Energy Agency (IAEA), International Commission on Radiological Protection (ICRP), International Commission on Radiation Units and Measurements (ICRU), National Institute of Standards and Technology (NIST), and National Council on Radiation Protection and Measurements (NCRP).

Standards from all of the above organizations are available from the issuing agency, and can also be obtained through various commercial standards services.


ANS maintains complete records on all available nuclear standards, nationally and internationally. Copies of any nuclear standard can be obtained from the Information Center on Nuclear Standards (ICON) located at the ANS office.


ASTM is one of the significant sources of voluntary standards in the nuclear field. This volume collects nuclear-related standards which have been endorsed by the ASTM.


These three standards focus on the design and analysis of nuclear plant structures, including seismic analysis of safety-related facilities.


Presents rules of safety governing the construction of boilers, pressure vessels, and other nuclear power plant components. This includes requirements for materials, design, fabrication, inspection during construction, and stamping. The code has been adopted by the American National Standards Institute. Sections III and XI cover rules for construction and in-service inspection, respectively, of nuclear power plant components.


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This is the best source of legislation and regulations regarding nuclear energy. Updated and released annually, it covers all relevant topics, including standards for radiation safety and protection, domestic licensing, waste disposal, environmental protection, security of national information, and conduct of employees.


IEEE provides standards in a wide range of electrical and electronics areas. In the section on nuclear engineering, it provides current and active standards relevant to the nuclear field including those related to nuclear instrumentation.


IAEA is a source of many nuclear standards. Standards endorsed by the IAEA are adhered to by all 130+ member nations.


Published periodically on topics of current interests related to radiation protection and application. Selected issues are published also as ICRP Publication.


Covers topics of current interests related to radiation protection and application. Selected issues are published also as Annals of the ICRP.


Provides internationally acceptable recommendations regarding units of radiation and radioactivity and procedures for the measurement and application of the radiation. Prior to 1967, ICRU reports were published as NBS Handbooks.


This report series deals with scientific information and recommendations on protection against radiation and techniques of radiation measurements.


This four-volume set includes all rules and regulations, policy statements, and general notices related to nuclear energy issued by the Nuclear Regulatory Commission and other agencies, and published in Federal Register. Updated monthly, the rules and regulations are arranged by subject into CFR parts.

This set represents the House and Senate reports, prints and resolutions, transcripts of hearings and excerpts from floor debates. The Act is the initial legislation enacted by Congress in 1954 and has historical significance as the foundation from which followed later laws, regulations, and standards.
MAJOR PERIODICALS

Listed in this section are core journals in nuclear engineering and related fields. Frequency may vary from year to year for some journals and many journals are available online.


ATW: Internationale Zeitschrift fur Kernenergie. Düsseldorf: Verlagsgruppe Handelsblatt, monthly, 1995-. (Articles in German and English; Content in brief in English.)


Fusion Technology. La Grange Park, IL: American Nuclear Society, 8 times a year, 1984 - .


Kerntechnik. München: C. Hanser, 6 issues a year, 1987 - . (Articles in English.)


Nuclear News. La Grange Park, IL: American Nuclear Society, monthly (except March, April, September, when issued semimonthly), 1959 - .


Physical Review. A: Atomic, Molecular, and Optical Physics. New York: Published by the American Physical Society through the American Institute of Physics, monthly, 1990 - .


Reviews of Modern Physics. New York: Published by the American Physical Society through the American Institute of Physics, quarterly, 1929 - .


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MAJOR CONFERENCES

This section lists selective conferences and topical meetings in nuclear engineering and related fields. The conferences are sponsored by major U.S. engineering societies and international organizations including the American Nuclear Society, American Society of Mechanical Engineers, Institute of Electrical and Electronics Engineers, Materials Research Society, National Council on Radiation, Protection and Measurements, and other international or foreign organizations. Within each sponsoring society, conferences are listed alphabetically by the first subject keyword in the conference title. Sponsoring organizations for conferences other than annual society meetings may vary from year to year.

American Nuclear Society (ANS)


   (An Embedded International Topical Meeting, ANS Annual Meeting)


Symposium on Fusion Technology (SOFT), Marseille, France, September, 1998.


American Society of Mechanical Engineers (ASME)


International Conference on Nuclear Engineering (ICONE-8), Baltimore, MD, April, 2000.


Conferences Sponsored by International or Foreign Organizations


International Conference on Radiation Shielding, Tsukuba, Japan, October, 1999.


Institute of Electrical and Electronics Engineers (IEEE)


Materials Research Society (MRS)


National Council on Radiation, Protection and Measurements (NCRP)

YEARBOOKS AND REVIEW SERIES

The articles in the yearbooks or review series included in this section usually present lengthy and substantial coverage of topics of current interest in nuclear energy and technology and nuclear science. These review series are published annually or less frequently.


This publication includes review papers designed to chart the field of nuclear physics. It is aimed at a wide readership, including both students and researchers.


This series includes analysis, critiques, and interpretations of current advances in all phases of nuclear science and technology except radiation biology and medicine.


These annual reviews include a collection of critical appraisals in chapter form of each year's progress in various fields of nuclear and particle science. Each volume includes cumulative author indexes for that volume as well as for previous volumes.


Provides an annual assessment of the nuclear industry, including nuclear energy supply and radioactive waste management, and information on the radiation processing of food and medicine.


This international review journal covers current problems in all aspects of nuclear energy including safety, siting and environmental problems, economics, and future management. Basic physics and engineering articles are also included.
INTERNET RESOURCES

The phenomenal growth of the Internet over the past decade has facilitated ready access to an abundance of scientific and technical information. The fast evolving nature of the Internet is, however, a concern as the currency of the Internet sites varies, and a particular site may become obscure and outdated to be of any use. The resources listed here are established major research sites, government agencies, data centers, and national laboratories conducting nuclear related research. Included also are several websites at academic nuclear engineering programs, where substantial Internet links are provided. This section should serve as a basis for links to a variety of nuclear engineering resources available on the web.

Nuclear Organizations

American Nuclear Society (ANS)  
http://www.ans.org

Nuclear Energy Agency (NEA)  
http://www.nea.fr

As an agency within the Organization for Economic Co-operation and Development (OECD), coordinates the nuclear energy development in member countries, including nuclear safety and licensing, radioactive waste management, radiation protection, and other nuclear related issues.

International Atomic Energy Agency (IAEA)  
http://www.iaea.org

Established as a United Nations scientific organization, coordinates and oversees activities related to nuclear science and engineering in approximately 130 member states.

Electric Power Research Institute (EPRI)  
http://www.epri.com

Funded by electric utility companies, coordinates and manages research and development activities related to production and distribution of electricity, including nuclear electricity.

Uranium Institute  
http://www.uilondon.org/index.htm

Provides a variety of nuclear energy information including nuclear fuel, nuclear industry issues. The site offers links to national and international websites on nuclear topic.

Nuclear Data Centers

National Nuclear Data Center (NNDC)  

The NNDC, funded by the U.S. Department of Energy, provides information on neutron, charged-particle, and photonuclear reactions, nuclear structure, and decay data, and links to other nuclear data centers in the U.S. and other countries. Key databases available through the NNDC include:
Computer Index of Neutron Data (CINDA)

Evaluated Nuclear Data File (ENDF)

Experimental Nuclear Reaction Data (CSISRS)

Table of the Nuclides

JAERI Nuclear Data Center (JNDC)
http://wwwndc.tokai.jaeri.go.jp/Figs/endfplot.html

Provides evaluated nuclear cross section data maintained by the Japan Atomic Energy Research Institute. JNDC databases are similar to the ENDF and related files provided by the NNDC.

Russian Nuclear Data Center (CJD)
http://www.ippe.obninsk.ru

Nuclear data files at the center are maintained by the Institute of Physics and Power Engineering (IPPE) at Obninsk, Russia.

IAEA Nuclear Data Centre (NDS)
http://www-nds.iaea.org

The Nuclear Data Section at the Centre coordinates the development and dissemination of nuclear and atomic data in member countries.

OECD NEA Data Bank
http://www.nea.fr/html/databank

Maintains and coordinates development effort among OECD countries in nuclear data files, in particular, the Joint Evaluated File (JEF) and European Fusion File (EFF).

National Laboratories and Government Agencies

Argonne National Laboratory (ANL)
http://www.anl.gov

Brookhaven National Laboratory (BNL)
http://www.bnl.gov

Idaho National Engineering and Environmental Laboratory (INEEL)
http://www.inel.gov

Lawrence Berkeley National Laboratory (LBNL)
http://www.lbl.gov

Lawrence Livermore National Laboratory (LLNL)
http://www.llnl.gov

Los Alamos National Laboratory (LANL)
http://www.lanl.gov

National Institute of Standards and Technology (NIST)
http://www.nist.gov

Oak Ridge National Laboratory (ORNL)
http://www.ornl.gov

Sandia National Laboratories (SNL)
http://www.sandia.gov

U.S. Department of Energy (DOE)
http://www.doe.gov

U.S. Nuclear Regulatory Agency (NRC)
http://www.nrc.gov

University Servers for Nuclear Resources

Massachusetts Institute of Technology (MIT). Nuclear Engineering
http://web.mit.edu/ned/www/links.html

University of Michigan
Department of Nuclear Engineering and Radiological Sciences
http://www-ners.engin.umich.edu/links/nuc_res.html

Media Union Library
http://www.lib.umich.edu/ummu/SUBJECTGUIDES/NUCL/NuclearNR.html

WWW Virtual Library: Nuclear Engineering
http://www.nuc.berkeley.edu/NEadm.html
APPENDIX: SELECTED PUBLISHERS AND INFORMATION SERVICES

This appendix lists addresses of societies, vendors, and online services. Standard publishers that are easily found in Books-in-Print and Ulrich’s International Periodicals Directory are not included.

American Nuclear Society. 555 N. Kensington Avenue, La Grange Park, IL 60526
  Telephone: 708-579-8210
  Fax: 708-579-8314
  http://www.ans.org

American Society for Testing and Materials. 1916 Race Street, Philadelphia, PA 19103
  Telephone: 215-299-5585
  Fax: 215-977-9679
  http://www.astm.org

American Society of Civil Engineers. 345 East 47th Street, New York, NY 10017
  Telephone: 212-705-7510
  Fax: 212-980-4681
  http://www.asce.org

American Society of Mechanical Engineers. 345 East 47th Street, New York, NY 10017. To order: 22 Law Drive, Box 2900, Fairfield, NJ 07007-2900
  Telephone: 800-THE-ASME
  Fax: 201-882-1717
  http://www.asme.org

Cambridge Scientific Abstracts. 7200 Wisconsin Avenue, Suite 601, Bethesda, MD 20814
  Telephone: 800-843-7751; 301-961-6700
  Fax: 301-961-6720
  http://www.csa.com

DataStar. See Dialog Corporation.

  Telephone: 800-3DIALOG; 919-462-8600
  Fax: 919-468-9890
  http://www.dialog.com

Gov.Research_Center
  Is a partnership between National Information Services Corporation (NISC) and National Technical Information Service (NTIS).
  http://grc.ntis.gov/energy.htm

Institute of Electrical and Electronics Engineers. IEEE Customer Services, 445 Hoes Lane, P.O. Box, 1331, Piscataway, NJ 08855-1331
  Telephone: 800-678-IEEE
  Fax: 908-981-9667
  http://www.ieee.org

Institute of Physics Publishing, Inc. The Public Ledger Building, Suite 1035
  150 South Independence Mall West, Philadelphia, PA 19106
  Tel: (215) 627 0880
  Fax: (215) 627 0879
http://www.iop.org

International Atomic Energy Agency. Wagramerstrasse 5, P.O. Box 100, A-1400 Vienna, Austria
The exclusive sales agent for IAEA publications in the United States is Bernan Associates
(www.bernan.com), 4611-F Assembly Drive, Lanham, MD  20706.
Telephone:  800-274-4447.
Fax:  301-459-0056
http://www.iaea.org

International Commission on Radiation Units and Measurements.  ICRU Publications,  7910
Woodmont Avenue, Suite 800, Bethesda, MD  20814
Telephone:  800-229-2652;  301-657-2652
Fax:  301-907-8768
http://www.icru.org

National Council on Radiation Protection and Measurements.  NCRP Publications, 7910
Woodmont Avenue, Suite 800, Bethesda, MD  20814-3095
Telephone:  800-229-2652
Fax:  301-907-8768
http://www.ncrp.com

Questel-Orbit, Inc.  8000 Westpark Drive, McLean, VA  22102
Telephone:  800-456-7248;  703-442-0900
Fax:  703-893-4632
http://www.questel.orbit.com

SilverPlatter Information, Inc.  100 River Ridge Drive, Norwood, MA  02062-5043
Telephone:  800-343-0064;  781-769-2599
Fax:  781-769-8763
http://www.silverplatter.com

STN International, c/o CAS, 2540 Olentangy River Road, P.O. Box 3012, Columbus, OH  43210
Telephone:  800-848-6533;  614-447-3600
Fax:  614-447-3713
http://www.stnweb.cas.org
Spent Nuclear Fuel Reprocessing Flowsheet. © OECD 2012 nuclear energy agency organisation for economic co-operation and development. Under the auspices of the NEA Nuclear Science Committee (NSC), the Working Party on Scientific Issues of the Fuel Cycle (WPFC) has been established to co-ordinate scientific activities regarding various existing and advanced nuclear fuel cycles, including advanced reactor systems, associated chemistry and flowsheets, development and performance of fuel and materials, and accelerators and spallation targets. The WPFC has different expert groups to cover a wide range of scientific fields in the nuclear fuel cycle. The second cycle of the DIDPA extraction step which includes selective stripping of Am and Cm with Nuclear engineering is dened as the application of nuclear and radiation processes in technology. An important application is the generation of electricity using nuclear reactors. Another important application is in medicine, where radiation and radioisotopes are used to diagnose and treat illness. Nuclear engineering offers students an important opportunity to help meet the energy needs of our society and to contribute to the improvement of health through medical applications. The requirements are the minimum for admission consideration. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student’s overall academic record at UW-Madison is also considered. Search Results for "selective-guide-to-literature-on-nuclear-engineering". Selective Guide to Literature on Nuclear Engineering. N.A — 2000 Nuclear engineering. Author: N.A. Publisher: N.A. ISBN: 9780878231836. Category: Nuclear engineering. Page: 27. View: 1918. DOWNLOAD NOW. The field of engineering is becoming increasingly interdisciplinary, and there is an ever-growing need for engineers to investigate engineering and scientific resources outside their own area of expertise. However, studies have shown that quality information-finding skills often tend to be lacking in the engineering profession. Using the Engineerin. Selective guide to literature on computer engineering. N.A â€” 1985 Computers. Author: N.A.