



# ENGINEERING

## *Selected* ONLINE DATABASES

**Academic Search Complete (EBSCO)** – 1975 – . The world's largest academic multi-disciplinary database, provides full text for nearly 4,000 scholarly publications, including full text for more than 3,100 peer-reviewed journals.

**Engineering Village 2 (Compendex)** – . Comprehensive engineering database indexing over 5000 journals, conferences, and reports, about half include abstracts; coverage from 1969, with weekly updates; subject coverage is strongest in chemical and process engineering (15%), computers and data processing (12%), electronics and communication (12%), applied physics (11%), civil engineering (6%), and mechanical engineering (6%).

**IEEE Explore** – . IEEE is a leading authority in technical areas ranging from computer engineering, biomedical technology and telecommunications, to electric power, aerospace and consumer electronics, among others. UL's online subscription includes access to the abstracts and full text of materials published since 1988 and select content published since 1950.

- IEEE journals, transactions, magazines, conference proceedings, and current standards;
- IEE journals and conference proceedings
- 2007 National Electrical Safety Code (NESC), contents full text

**NetLibrary** –. Provides access to over 14,000 e-book titles online via iLink, the library's online catalog. User must establish their own individual free account online from an on campus computer. The e-books cover topics in business, computer science, education, history, literature, and much more. Reference, scholarly, professional and popular books are included.

**Science Citation Index – 1973–.** Fully indexes 5,900 major journals across 150 scientific disciplines; Includes all cited references captured from indexed articles; provides some abstracts and access to EndNote Web. Some retrospective data from 1945.

**ThomasNet** – <http://www.thomasnet.com/index.html> – Search ThomasNet to find manufacturers, service providers and distributors. Over 67,000 product categories represented. Also provides 2D and 3D CAD drawings from major manufacturers, a forum and other resources.

## FULL TEXT JOURNALS

- **A to Z LOUIS Full Text Title List**  
<http://atoz.ebsco.com/ProviderIndex.asp?id=1190&sid=232152620>  
Links to full-text articles in the LOUIS online databases.
- **EBSCOhost Electronic Journals Service (EJS)**–<http://library.louisiana.edu/Research/>  
Links to articles in e-journals subscribed to by Dupré Library OR use the pay-per-view feature to purchase articles not subscribed to by Dupré Library.

## Selected Reference Sources for General Engineering

<i>Careers in Engineering</i> 2 <sup>nd</sup> ed.	TA157 .G3267 2003
<i>Engineer's and Manager's Guide to Winning Proposals</i>	HF5718.5 .H45 1994
<i>Engineering Index</i> , 1919– 2000.	Z 5851 .E62
<i>Engineering and Physical Science Pocket Book</i>	Ref TA 151 .B47 1993
<i>Engineering Manual</i> (Perry), 3 <sup>rd</sup> ed.	Ref TA 151 .P645 1976
<i>Handbook to Technical Writing</i>	Ref T11 .B775 2000
<i>Key Guide to Electronic Resources/Engineering</i>	Ref TA 145 .K49 1995
<i>Larousse Dictionary Of Science And Technology</i>	Ref Q123 .L37 1995
<i>McGraw-Hill Ency. of Science and Technology</i> (7 <sup>th</sup> edition, 20 vols.)	Ref Q121 .M3 1992
<i>Opportunities In Engineering Careers</i>	[Electronic Resource through netLibrary]
<i>The Best Jobs for the 21st Century</i>	[Electronic Resource through netLibrary]
<i>Scientific Writing: Easy When You Know How</i>	[Electronic Resource through netLibrary]
<i>Writing Like an Engineer: A Rhetorical Education</i>	T11 .W55 1996

## SELECTED Web Sites for General Engineering

- **Athenus.com: Engineering Search on the Web.** <http://www.athenus.com/index.html>. The search engine of choice for scientists and engineers seeking resources in science and engineering on the web. The Athenus search engine indexes hundreds of thousands of subject-specific web sites, publications, news and other resources, providing users with the most current, most focused collection of topic-specific material on the Internet.
- **EngNet:** <http://www.engnetglobal.com/>. powerful directory/search engine/buyers guide service aimed specifically at the engineering industry.
- **Engineering.com:** offers many elements: the **Solution Machine** provides an engineering discipline-specific search engine with links to free applications; the **Marketplace** gives access to the engineer's store for software and non-software products, services and consultancy and training; the **Community** has a searchable database of universities and sections for engineering (with pages on engineering marvels, timeline, events, geniuses, and projects), **Academia** (for aspiring engineers, research, educators, and women in engineering), and **Professional** (becoming an engineer, professional development, ethics, and associations), accompanied by job search, library, consultants pages, games and puzzles, and blogs.
- **Eng-Tips Forums:** <http://www.eng-tips.com/index.cfm>. Popular web site for engineering professionals to exchange ideas and assistance. Online forums include specific disciplines from aeronautics engineering to structural engineering; other forums include hot topics, careers and even a section on proper language usage.
- **Galaxy Directory: Engineering and Technology:** <http://www.einet.net/directory/29557/Engineering-and-Technology.htm>. A comprehensive subject list of web sites, vendors, and organizations. Directory is divided into very specific areas.

## Selected Reference Sources for Civil Engineering

<i>Building Design and Construction Handbook</i>	TH151 .B825 1982
<i>CRC Handbook of Chemistry and Physics</i>	Ref QD65 .H3
<i>Civil Engineering Practice</i>	TA 145 .C58 1987
<i>Civil Engineering Technician's Ready Reference Manual</i>	TA 151 .S82 1985
<i>Deskbook of Building Construction: Charts, Tables and Forms</i>	TH151 .M26 1985
<i>Dictionary of Civil Engineering</i>	TA9 .S35 1981
<i>Encyclopedia of Building and Construction Terms</i>	TH9 .B757 1983
<i>Engineering and Physical Science Pocket Book</i>	Ref TA151 .B47 1993
<i>Manual of Steel Construction: Allowable Stress Design (9<sup>th</sup> ed.) American Institute of Steel Construction.</i>	TA684 .A47 1989
<i>Minimum Design Loads for Buildings and other Structures</i>	TH851 .M56 1995
<i>Practice Periodical on Structural Design and Construction (quarterly periodical by the ASCE)</i>	TA658 .P73
<i>Road and Bridge Construction Handbook</i>	TE153 .L32
<i>Standard Handbook for Civil Engineers (3<sup>rd</sup> ed.)</i>	TA151 .S8 1983

## Selected Web Sites for Civil Engineering

- **American Society of Civil Engineers:** <http://www.asce.org/>. Information about the civil engineering society, its products and services. Tables of contents and abstracts of articles from the Society's magazine and journals are available, with the full text viewable by members and subscribers only. Careers, education and news also available. Their Resources section is valuable for its extensive links.
- **[iCivilEngineer.com](http://www.civilengineer.com):** Knowledge portal specially designed for civil engineering professionals and students. It has two goals in mind: 1) collect and catalog valuable civil engineering relevant Internet resources so that people can find information fast; 2) explore how to take advantage of Internet technology to serve the civil engineering community. Offers news, careers, online tools, and a comprehensive web resource collection.
- **The Ultimate Civil Engineering Directory:** <http://www.tenlinks.com/engineering/civil/>. Includes a collection of more than 1000 Civil Engineering Resources focused on building and construction engineering.

## Selected Reference Sources for Chemical Engineering

<i>CRC Handbook of Chemistry and Physics</i>	Ref QD65 .H3
<i>Chemical Synonyms and Trade Names: a Dictionary and Commercial Handbook (7<sup>th</sup> ed)</i>	TP9 .G28 1971A
<i>Encyclopedia of Polymer Science &amp; Engineering</i>	Ref TP 1087 .E46 1985
<i>Industrial Products Handbook: Encyclopedia of Chemical Processing and Design</i>	TP 151 .I53 1994
<i>Kirk-Othmer Encyclopedia Of Chemical Technology</i>	Ref TP9 .E685
<i>Lange's Handbook of Chemistry, 13<sup>th</sup> ed.</i>	Ref TP 151 .H25 1985
<i>McGraw-Hill Series in Chemical Engineering</i>	various call numbers
<i>Mechanical Properties and Testing of Polymers:</i>	TA455.P58 M344 1999

## Selected Web Sites for Chemical Engineering

- **American Institute of Chemical Engineers:** <http://www.aiche.org/>. The main professional organization of chemical engineers. Education and training, conferences, government and industry news, careers and employment.
- **Chemical Engineering Online:** <http://www.che.com/>. Comprehensive site for the major publication *Chemical Engineering*. Very current resources, including papers, webcasts, careers, etc.
- **ChemistryJobs.com:** <http://www.chemistryjobs.com/>. Job site for chemistry, chemists, chemical engineering, chemical, organic, inorganic, teaching and research
- **IChemE Information Portal:** <http://www.icheme.org/informationportal>. Extensive collection of resources for chemical, biochemical and process engineering professionals worldwide.

## Selected Reference Sources for Electrical Engineering

<i>Audel Guide to the 2002 National Electrical Code</i>	[Electronic Resource through netLibrary]
<i>CMOS Circuit Design for RF Sensors</i>	[Electronic Resource through netLibrary]
<i>Communication Systems: Analysis and Design</i>	[Electronic Resource through netLibrary]
<i>Computing Reviews</i>	QA 76 .C5854
<i>DEIA Dictionary of Electrical Abbreviations, Signs, &amp; Symbols</i>	Ref TK 151 .D56 1965
<i>Dictionary of Communications Technology: Terms, Definitions, and Abbreviations</i>	TK5102 .H453 1995
<i>Electrical &amp; Computer Engineering Dictionary</i>	Ref TK 9 .K37 1996
<i>Electrical Engineer's Portable Handbook (2004)</i>	[Electronic Resource through netLibrary]
<i>Electronic Devices and Circuit Theory (1999)</i>	TK7867 .B66 and CD-ROM
<i>Electronics and Computer Acronyms</i>	Ref TK9 .B76 1988
<i>Encyclopedia of Integrated Circuits: a Practical Handbook of Practical Reference Data</i>	TK 7874 .B77 1987
<i>Fundamentals Handbook of Electrical and Computer Engineering</i>	TK151 .F86 1982
<i>IEEE Standard Dictionary of Electrical &amp; Electronic Terms</i>	TK9 .I478 1988
<i>Index to IEEE Publications</i>	Z 5832 .I54
<i>Introduction To Telecommunications Network Engineering</i>	[Electronic Resource through netLibrary]
<i>McGraw-Hill's National Electrical Code Handbook</i>	TK 260 .M345 1996
<i>Modern Dictionary of Electronics</i>	TK7804 .G67 1997
<i>National Electrical Code Handbook</i>	TK 260 .M345 1996
<i>Newton's Telecom Dictionary</i>	Ref TK 5102 .N485 1995
<i>Plunkett's Telecommunications Industry Almanac</i>	[Electronic Resource through netLibrary]
<i>Telecommunications Directory, 10<sup>th</sup> ed.</i>	Ref TK 5102 .5 .T3965 1999

## Selected Web Sites for Electrical Engineering

- **The Institute of Electrical and Electronics Engineers:** <http://www.ieee.org/portal/site>. The technical objectives of the IEEE focus on advancing the theory and practice of electrical, electronics and computer engineering and computer science. The IEEE sponsors technical conferences, symposia and local meetings worldwide; publishes nearly 25% of the world's technical papers in electrical, electronics and computer engineering; provides educational programs to keep its members' knowledge and expertise state-of-the-art.
- **Electrical and Electronic Engineering: the World-Wide Web Virtual Library:** <http://www.vlib-ee.org/>. Annotated collection of links include academic and research institutions, information resources, products and services, blogs, journals and magazines, and standards.

## Selected Reference Sources for Industrial Engineering

<i>Applied Statistics for Engineers and Scientists</i>	QA276 .D46 1999 and disk at Circ
<i>CRC Handbook of Environmental Control</i> , 5 vols	Ref TD 145 .C2 1972
<i>Dangerous Properties of Industrial Materials</i>	Ref T 55 .3 .H353 1984
<i>Environmental Engineering Dictionary</i>	Ref TD 9 .L44 1992
<i>Handbook of Industrial Engineering</i> (Salvendy)	Ref T 56 .23 .H36 1992
<i>Hazardous Substances Resource Guide</i>	Ref T 55 .3 .H3H444 1993
<i>Human Factors Design Handbook: Information and Guidelines for the Design of Systems, Facilities, Equipment, and Products for Human Use</i>	TA 166 .W57 1992
<i>Industrial Engineering Terminology</i>	T 56 .A58 1955
<i>Maynard's Industrial Engineering Handbook</i> (4 <sup>th</sup> ed)	T 56 .M39 1992
<i>Modeling and Problem Solving Techniques for Engineers</i>	TA 345 .H67 2004
<i>Operations and Technology Express</i>	Electronic Resource through netLibrary
<i>Reliability-Based Mechanical Design</i>	TJ230 .R394 1997 and disk at Circ

## Selected Web Sites for Industrial Engineering

- **Association for Computing Machinery:** <http://www.acm.org/> Professional organization on advanced computing as a science and a profession. Offers a digital library, multimedia center, announcements, career and job center, conferences and all its special interest groups.
- **Institute of Industrial Engineers (IIE):** <http://www.iienet2.org/Default.aspx> World's largest professional organization provides leadership for the application, education, training, research, and development of industrial engineering.
- **The World Wide Web Virtual Library: Industrial Engineering:** <http://www2.isye.gatech.edu/www-ie/>. Academic programs, professional organizations, conferences, databases, and other links.

## Selected Reference Sources for Mechanical Engineering

<i>ASM Handbook</i> (various vols.)	TA459 .M43 1990
<i>ASM Materials Engineering Dictionary</i>	Ref TA 402 .A860 1992
<i>Construction Materials: their Nature and</i>	[Electronic Resource through netLibrary]

## Behaviour

<i>Dictionary of Mechanical Engineering 3<sup>rd</sup> ed.</i>	TJ9 .N28 1985
<i>Encyclopedia of Fluid Mechanics, 9 vols.</i>	Ref TA 357 .E53 1986
<i>Encyclopedia of Materials Science &amp; Engineering</i>	Ref TA 402 .E53 1986
<i>Engineered Materials Handbook (3 vols)</i>	TA403 .E497 1987
<i>Expert Resumes For Manufacturing Careers: Engineering, Management, Executive, Operations, Production, and Technology</i>	[Electronic Resource through netLibrary]
<i>HVAC Systems Design Handbook 2<sup>nd</sup> ed.</i>	TH7345 .H35 1994
<i>Handbook of Formulas for Stress &amp; Strain</i>	Ref TA 407.2 .G7
<i>Handbook of Heat and Mass Transfer, 3 vols.</i>	TJ260 .H36 1986
<i>Handbook of Mechanical Engineering Calculations</i>	TJ 151 .H327 1998
<i>The MEMS Handbook</i>	TJ151 .M46 2002
<i>Machine Design Data Handbook</i>	TJ230 .L718 1994
<i>Machinery's Handbook (semi-annual editions)</i>	TJ151 .M3
<i>Maintenance Engineering Handbook 6<sup>th</sup> ed. 2002</i>	[Electronic Resource through netLibrary]
<i>Marks Standard Handbook for Mechanical Engineers</i>	Ref TJ 151 .M37 1
<i>Mechanical Design and Systems Handbook</i>	TJ230 .M43 1985
<i>Mechanical Engineers Data Handbook</i>	TJ 151 .C36 1996
<i>Micromachining of Engineering Materials</i>	[Electronic Resource through netLibrary]
<i>Newnes Mechanical Engineer's Pocket Book</i>	TJ 151 .T54 1997
<i>Process Instruments and Controls Handbook 3<sup>rd</sup> ed.</i>	TS156.8 .P764 1985
<i>Pump Handbook</i>	TJ900 .P79 1986
<i>SAE Handbook (multivolume, Soc. of Automotive Engineers annual handbook)</i>	TL151 .S62
<i>Time-Saver Standards Architectural Design Data</i>	Ref TH 151 .T55 1982
<i>Tool and Manufacturing Engineers Handbook: a Reference Book for Manufacturing Engineers, Managers, and Technicians (3 vols)</i>	TS176 .T63 1983

## Selected Web Sites for Mechanical Engineering

- **American Society of Mechanical Engineers:** <http://www.asme.org/>  
ASME's Center for Research and Technology Development (CRTD) facilitates the development and application of technology in areas of interest to ASME International members and to the engineering profession. It encourages collaborations among those in industry, government and academia by: Identifying research needs and opportunities for technology development and application in areas related to mechanical engineering; convening groups of industrial, governmental and academic personnel who have mutual technical interests or problems; planning, organizing and managing cooperative research, development, demonstration or technology transfer projects; raising funds to support proposed projects, and disseminating the results of these projects.
- **INTUTE: Engineering:** <http://www.intute.ac.uk/engineering/>. With a British focus, covers all disciplines of engineering, including mechanical engineering and subcategories such as pneumatics, thermodynamics, plant and power engineering. Sites are evaluated and rated.
- <http://icrank.com/>: **The Mechanical Engineering Portal:** offers a knowledge base with design tools, a blog, trade associations, directory of US vendors, announcements and links to web sites and newsgroups.

- **Mechanical Engineering Magazine Online:** <http://memagazine.asme.org/> The online version of Mechanical Engineering magazine, sponsored by the ASME. Provides a global electronic platform that showcases mechanical engineering's leading role in technological advancements. Along with selected feature stories from the print magazine, they provide updated late-breaking technical and industry-related business news every week, filled with important links.

## **Selected Reference Sources for Petroleum Engineering**

### **Abstracts/Indexes**

<i>GeoRef</i>	[Electronic Database]
<i>International Petroleum Abstracts</i>	TN 860 .I522
<i>Petroleum Abstracts</i>	MicroFilm 5256 and online
<i>Alphabetic Subject Index to Petroleum Abstracts</i>	TN 860 .P3982
<i>KWOC List of Petroleum Abst Exploration &amp; Production Thesaurus</i>	TN 860 .P399

### **Dictionaries/Encyclopedias**

<i>Comprehensive Dictionary of Petroleum Science &amp; Technology (1993)</i>	Ref TN 865 .M740 1993
<i>Dictionary of Mining, Mineral, &amp; Related Terms</i>	Ref TN 9 .T5
<i>Dictionary of Petroleum Science &amp; Technology</i>	Ref TN 865 .M740 1993
<i>GeoRef Thesaurus</i>	Ref Z 695 .1 .G43G46 1997
<i>Illustrated Glossary of Petroleum Geochemistry</i>	TN 870 .5 .M493 1989
<i>International Petroleum Encyclopedia</i>	Ref HD 9560.5 .I59

### **Handbooks/Yearbooks**

<i>D and D Standard Oil Abbreviator</i>	TN865 .D2 1986
<i>Formulas/Calculations for Drilling, Production &amp; Workovers</i>	TN 871 .L287 1992
<i>Minerals Yearbook (U.S. Geological Survey), 3 v.</i>	Ref TN 23 .U612 1996
<i>Oil and Gas/Energy Yearbook, annual</i>	Ref HG 4821 .O4
<i>Reservoir Engineering Handbook</i>	TN 871 .A337 2000
<i>The Practice Of Reservoir Engineering</i>	TN871 .D35 2001

### **Directories**

<i>Geophysical Directory</i>	Ref TN 867 .G46
<i>Global Oil And Gas Directory</i>	Ref HG4821 .O4
<i>Gulf Coast Oil Directory</i>	Ref TN 867 .G8
<i>Houston Oil Directory</i>	Ref TN 867 .H6
<i>Lafayette Oil Directory</i>	Ref TN 867 .D4

## **Selected Web Sites for Petroleum Engineering**

- **American Petroleum Institute:** <http://www.api.org/> Contains information about oil and natural gas for the general public; plus information for oil and natural gas professionals and policy makers, and the latest news, reports, testimony, and journalists' resources. Has a section on hot topics.
- **EEVL The Internet Guide to Engineering, Mathematics and Computing/Petroleum and Offshore Engineering:** <http://www.intute.ac.uk/cgi-bin/browse.pl?id=25725>. Evaluates and rates over 230 quality web sites on petroleum and offshore engineering. Based in the UK; award winning web site.

- **LAGCOE** <http://www.lagcoe.com>. Information about the conference and exhibition of the Louisiana Gulf Coast Oil Exposition, held every two years in Lafayette, LA.
- **Louisiana Oil & Gas Association (LOGA)** <http://www.loga.la/>. Wealth of information on the independent and service sectors of the state's oil and gas industry.
- **Oil Online—Your Online Source for the Oil Industry** <http://www.oilonline.com>. News, resources, magazines, e-newsletters, events, etc about the worldwide oil industry.
- **OnePetro:** <http://www.onepetro.org/>. A multi-science library that contains more than 80,000 documents on oil and gas exploration and the production industry from societies such as Society for Petroleum Engineers, American Petroleum Institute, American Society of Safety Engineers and NACE International
- **Society of Petroleum Engineers:** <http://www.spe.org/spe-app/spe/index.jsp>. Professional organization that is the technical and professional home for all those engaged in all aspects of the upstream oil and gas industry.