

Mechanical Engineering

HANDBOOKS

Useful for locating data and basic explanations of processes and principles.

- ASM Materials Information [electronic resource]: ASM Handbooks Online*
ASME International Steam Tables for Industrial Use (Owen Reference TJ270A73 2000)
Biomaterials and Bioengineering Handbook (Owen R857M3W57 2000) [and electronic resource online]
CRC Handbook of Mechanical Engineering (Owen Reference TJ151.C73 1998) and 2005 online
CRC Handbook of Thermal Engineering (Owen Reference TJ260C69 2000) and online
Electromechanical Design Handbook, 3rd (Owen Reference TJ163W35 2000)
Energy Management Handbook, 4th (Owen Reference TJ163.2T87 2001)
Fan Handbook (Owen Reference TJ960B58 1998)
Handbook of Air Conditioning and Refrigeration, 2nd (Owen Reference TH7687W27 2001)
Handbook of Die Design (Owen Reference TS253S79 1998)
Handbook of Energy Efficiency (Owen Reference TJ163.3.C73 1997)
Handbook of Statistical Methods for Engineers & Scientists (Owen Reference TA340.H34 1998)
HVAC Design Data Sourcebook (Owen Reference TH7345.H85 1994)
Machinery's Handbook (Owen Reference TJ151.M3 27th 2004)
Machining and Metalworking Handbook (Owen Reference TJ1185.W35 1999)
Marks' Standard Handbook for Mechanical Engineers (Owen Reference TJ151.M368x 1996)
Mechanisms and Mechanical Devices Sourcebook, 3rd (Owen Reference TJ181S28 2001)
MEMS Handbook (Owen Reference TJ151M46 2002) and online
Pressure Vessel Handbook, 11th (Owen Reference TS283M37 1998)
Pump Handbook, 3rd (Owen Reference TJ900P79 2001)
A Real Goods Solar Living Sourcebook (Owen Reference TJ807A58 no.10 1999)
Robotics and Automation Handbook (Owen Reference TJ211R5573 2005) and online
Rules of Thumb for Mechanical Engineers (Owen Reference TJ151.R84 1997)
The Standard Handbook for Aeronautical and Astronautical Engineers (Owen Reference TL509S664 2003)
Standard Handbook of Engineering Calculations (Owen Reference TA332.S73 1995)
Standard Handbook of Machine Design (Owen Reference TJ230.S8235 1996) and online

ABSTRACTS AND INDEXES

Use to locate references to journal articles and conference papers.

- Ei CompendexWeb (Engineering Index)*
1970-present (Online: Libraries Article Indexes/E-Journals)
1884-1994 (Owen/A&I Z5851.E62)
Abstracts of the world's technological literature in all disciplines
- Endex (WSU Energy Library)*
Endex is an index of energy-related journals created and maintained by the WSU Energy Program Library.
The focus is on energy efficiency in residential, commercial, and industrial applications.
- Energy Citations (DOE)*
The Energy Citations Database (ECD) contains citations to energy and energy-related reports from the US Department of Energy (DOE) and its predecessor agencies from 1948 through the present.
- INSPEC*
1968-present (Online: Libraries Article Indexes/E-Journals)
1910-1992 (Owen/A&I)
Combined Physics Abstracts, Electrical and Electronics Abstracts, and Computer and Control Abstracts
- Science Citation Index (Web of Science)*
1990-present (Online: Libraries Article Indexes/E-Journals)
1955-1991 (Owen/A&I East Alcove)
This is a multidisciplinary index to articles in over 6,000 science journals. A unique feature allows a "citation" search to find who referenced a particular article.

SciFinder Scholar 2006 (Chemical Abstracts)

Full text access to: Chemical Abstracts since 1907, Chemical Abstracts Registry CASREACT: since 1974, Medline since 1985, Chemcats and ChemList since 1979.

ENCYCLOPEDIAS AND DICTIONARIES

Use these for background information and help with terminology

Dictionary of Automotive Engineering (Owen Reference TL9.G64 1995)

Dictionary of Mechanical Engineering (Owen Reference TJ9.N28 1996)

Encyclopedia of Fluid Mechanics (Owen Reference TA357.E53 1986 v. 1-10 and supplements)

Encyclopedia of Vibration (Owen Reference TA355E497 2002, 3 vols)

Encyclopedic Dictionary of Industrial Automation and Computer Control (Owen Reference TS156.8.S638 1995)

International Encyclopedia of Heat & Mass Transfer (Owen Reference TJ260.I579 1997)

Kirk-Othmer Concise Encyclopedia of Chemical Technology, 4th (Owen Reference TP9K54 1999)

Macmillan Encyclopedia of Energy, 3 vols. (Owen Reference TJ163.28M33 2001)

Modern English-Russian Dictionary of Mechanical Engineering and Industrial Automation (Owen Reference TJ9V67 2003)

Ullmann's Encyclopedia of Industrial Chemistry (online)

STANDARDS

Use to locate standards and specifications

Annual Book of ASTM Standards Index (Owen Reference TA401.A653 [yr])

Annual Book of ASTM Standards (Owen TA401.A653 [yr])

ASHRAE Handbook (Owen Reference TH7011.A41x [yr])

SAE Handbook (Owen Reference TL151.S62 2005)

Index and Directory of Industry Standards (Owen Reference QC100.I53x [yr])

DIRECTORIES

For finding information about organizations, programs, and businesses

Peterson's Graduate Programs in Engineering and Applied Sciences (Owen Reference L901.P446 2005)

Peterson's Job Opportunities, Engineering and Computer Science (Owen Reference TA157.P44 2000)

Thomas Register of American Manufacturers (online)

World Guide to Scientific Associations and Learned Societies, 9th (Owen Reference Q10W67 2004)

TECHNICAL WRITING

A Guide to Writing as an Engineer (Owen T11B396 2005)

How to Write & Publish Engineering Papers and Reports, 3rd (WSU Holland T11M418 1990)

The MIT Guide to Science and Engineering Communication (Owen Reference Q223P33 2002)

Science and Technical Writing: a Manual of Style, 2001 (ebook on NetLibrary)

INTERNET RESOURCES

EEVL Internet Guide to Engineering, Mathematics, and Computing at <http://www.eevl.ac.uk/>

Dmoz Open Directory Project at http://dmoz.org/Science/Technology/Mechanical_Engineering/

WWW Virtual Library at <http://vlib.org/Engineering.html>

Librarians' Index to the Internet at <http://lii.org> or <http://wa.lii.org/> for the State of Washington version

More information about Mechanical Engineering resources in Owen Library and links to web sites can be found at the following URL: <http://www.wsulibs.wsu.edu/general/subjects.html>.