

Engineering

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Scope

The purpose of this pathfinder is to introduce some of the resources available in Robert W. Woodruff Library on **ENGINEERING**. This pathfinder is **NOT** a comprehensive listing of sources, but is intended to be a starting point from you can begin your research according to your specific needs.

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1. Bibliographies

Reference Sources in Science, Engineering, Medicine and Agriculture by H. Robert Malinkowsky.
Location: MAIN STACKS Z7401 .M278 1994

Science and Engineering Conference Proceedings: A Guide to Sources for Identification and Verification edited by Barbara DeFelice.
Location: MAIN STACKS Z7401 .S3567 1995

2. Dictionaries

ASM Materials Engineering Dictionary edited by J.R. Davis.
Location: REFERENCE TA402 .A86 1992

Comprehensive Dictionary of Measurement and Control edited by Instrument Society of America.
Location: REFERENCE TS156.8 .C62 1995

The Contractor's Dictionary of Equipment, Tools and Techniques: For Civil Engineering, Construction, Forestry, Open-Pit Mining and Public Works edited by L.F. Webster.
Location: REFERENCE TA9 .W43 1995

Dictionary of Ceramic Science and Engineering by Ian J. McColm.
Location: REFERENCE TP788 .M38 1993

Dictionary of Civil Engineering edited by U.B. Chopra.
Location: REFERENCE TD9 .C46 1989

Dictionary of Civil Engineering edited by John S. Scott.
Location: REFERENCE TA9 .S35 1993

Dictionary of Engineering Acronyms and Abbreviations by Harald Keller and Uwe Erb.
Location: REFERENCE T11 .K43 1994

Dictionary of Named Processes in Chemical Technology by Alan E. Comyns.
Location: REFERENCE TP155.7 .C66 1993

The Dictionary of Space Technology by Joseph A. Angelo, Jr.
Location: REFERENCE TL788 .A53 1999

Elsevier's Dictionary of Industrial Technology by H.E. Philippsborn.
Location: REFERENCE T10 .P52 1994

Environmental Engineering Dictionary edited by C.C. Lee.
Location: REFERENCE TD9 .I44 1998

Environmental Engineering Dictionary and Directory by Thomas M. Pankratz.
Location: REFERENCE TD9 .P36 2001

The IEEE Standard Dictionary of Electrical and Electronics Terms edited by Jane Radatz.
Location: REFERENCE TK9 .I35 1996

The McGraw-Hill Dictionary of Astronomy edited by Sybil P. Parker.
Location: REFERENCE QB14 .M36 1997

McGraw-Hill Dictionary of Engineering.
Location: REFERENCE TA9 .M35 2003

Quantification in Science: the VNR Dictionary of Engineering Units and Measures by Michele Melaragno.
Location: REFERENCE QC61 .M34 1991

The VNR Dictionary of Civil Engineering by John S. Scott.
Location: REFERENCE TA9 .S35 1993

The Wiley Dictionary of Civil Engineering and Construction by Felicitas Kennedy.
Location: REFERENCE TA9 .K46 1996

3. Encyclopedias

Concise Encyclopedia of Aeronautics and Space Systems edited by Marc Pelegrin and Walter M. Hollister.
Location: REFERENCE TL509 .C66 1993

Concise Encyclopedia of Measurement and Instrumentation edited by L. Finkelstein and K.T.V. Grattan.
Location: REFERENCE TA165 .C62 1994

Concise Encyclopedia of Materials Characterization edited by Robert W. Cahn and Eric Lifshin.
Location: REFERENCE TA402 .C659 1992

Condensed Encyclopedia of Polymer Engineering Terms by Nicholas P. Cheremisinoff.
Location: REFERENCE TP1087 .C477 2001

Encyclopedia of Software Engineering edited by John J. Marciniak.
Location: REFERENCE QA76.758 .E53 2002

McGraw-Hill Encyclopedia of Engineering edited by Sybil Parker.
Location: REFERENCE TA9 .M36 1993

McGraw-Hill Encyclopedia of Environmental Science & Engineering edited by Sybil P. Parker and Robert A. Corbitt.
Location: REFERENCE GE10 .M38 1993

McGraw-Hill Encyclopedia of Science and Technology edited by Sybil Parker.
Location: REFERENCE Q121 .M3 1997

Van Nostrand's Scientific Encyclopedia edited by Douglas M. Constantine.
Location: REFERENCE Q121 .V3 1995

4. Handbooks

Air Pollution Control Technology Handbook by Karl B. Schnelle, Jr. and Charles A. Brown.
Location: MAIN STACKS TD883 .S283 2002

ASM Handbook of Engineering Mathematics edited by William G. Belding.
Location: REFERENCE TA332 .A79 1983

The Civil Engineering Handbook edited by W.F. Chen.
Location: REFERENCE TA151 .C57 1995

Civil Engineering Reference Manual by Michael R. Lindeburg.
Location: REFERENCE TA159 .L54 1992

The Computer Engineering Handbook edited by Vojin G. Oklobdzija.
Location: REFERENCE TK7885 .C645 2002

The Computer Science and Engineering Handbook edited by Allen B. Tucker, Jr.
Location: MAIN STACKS QA76 .C57315 1997

Concise Handbook of Mathematics and Physics by A.G. Alenitsyn, E.I. Butikov and A.S. Kondratyev.
Location: MAIN STACKS QC61 .A4813 1997

CRC Handbook of Chemistry and Physics.
Location: REFERENCE QD65 .H3 2004

CRC Handbook of Laboratory Safety edited by A. Keith Furr.
Location: REFERENCE QD51 .C73 1995

CRC Materials Science and Engineering Handbook edited by James F. Shackelford and William Alexander.
Location: REFERENCE TA403.4 .C74 2001

CRC Practical Handbook of Materials Selection by James Shackelford, William Alexander and Jun Park.
Location: REFERENCE TA403.4 .S482 1995

CRC Standard Curves and Surfaces by David von Seggern.
Location: MAIN STACKS QA643 .V67 1993

The Electrical Engineering Handbook edited by Richard C. Dorf.
Location: REFERENCE TK145 .E354 1993

Electrical Safety Handbook by John Cadick.

Location: REFERENCE TK152 .C22 1994

Electromechanical Design Handbook by Ronald A. Walsh.

Location: REFERENCE TJ163 .W35 1995

The Electronics Handbook edited by Jerry C. Whittaker.

Location: REFERENCE TK7867 .E4244 1996

Field Engineer's Manual edited by Robert O. Parmley.

Location: REFERENCE TA151 .P35 1995

Fuzzy Logic and Neural Network Handbook edited by C.H. Chen.

Location: MAIN STACKS TJ217.5 .F9 1996

Handbook of Chemical Engineering Calculations edited by Nicholas P. Chopey.

Location: REFERENCE TP149 .H285 1994

Handbook of Chemical and Environmental Engineering Calculations edited by Joseph P. Reynolds, John S. Jeris and Louis Theodore.

Location: REFERENCE TP168 .R49 2002

Handbook of Control Systems Engineering by Louis C. Westphal.

Location: REFERENCE TJ213 .W413 2001

Handbook of Dimensional Measurement by Francis T. Fargo and Mark A. Curtis.

Location: REFERENCE T50 .F36 1994

Handbook of Electric Motors edited by Richard H. Englemann and William H. Middendorf.

Location: REFERENCE TK2514 .H26 1995

Handbook of Health Hazard Control in the Chemical Process Industry by Sydney Lipton and Jeremiah Lynch.

Location: MAIN STACKS TP149 .L57 1994

Handbook of Machinery Dynamics edited by Lynn L. Faulkner and Earl Logan, Jr.

Location: REFERENCE TJ170 .H365 2001

Handbook of Mechanical Engineering edited by B.J. Davies.

Location: REFERENCE TJ151 .D813 1994

Heat Exchanger Design Handbook by T. Kuppan.

Location: MAIN STACKS TJ263 .K87 2000

The MEMS Handbook edited by Mohammed Gad-el-Hak.

Location: REFERENCE TJ151 .M46 2002

Mechanical Engineer's Data Handbook edited by J. Carvill.

Location: REFERENCE TJ151 .C36 1993

Mechanical Engineer's Handbook edited by Myer Kutz.

Location: REFERENCE TJ151 .M395 1998

Mechanical Engineer's Handbook edited by Dan B. Maghitu.

Location: REFERENCE TJ151 .M3953 2001

The Mechanical Systems Design Handbook: Modeling, Measurement and Control edited by Osita D.I. Nwokah and Yildirim Hurmuzlu.

Location: MAIN STACKS TS176 .M42 2002

National Electrical Safety Handbook edited by Allen L. Clapp.

Location: MAIN STACKS TK152 .N345 1996

Perry's Chemical Engineers' Handbook edited by Robert H. Perry.

Location: MAIN STACKS TP151 .P45 1997

Process Engineering Equipment Handbook by Claire Soares.

Location: REFERENCE TP157 .S658 2002

Rules of Thumb for Chemical Engineers: A Manual for Quick, Accurate Solutions to Everyday Engineering Problems edited by Carl R. Brannan.

Location: MAIN STACKS TP151 .R85 1994

The Transforms and Applications Handbook edited by Alexander D. Poularikas.

Location: REFERENCE QA601 .T73 2000

5. Methods

Advanced Mathematical Methods in Science and Engineering by S.I. Hayek.

Location: REFERENCE QA37.2 .H39 2001

Advances in Surface Science edited by Hari S. Nalwa.

Location: REFERENCE QC173.4 .S94 2001

Applied Parameter Estimation for Chemical Engineers by Peter Englezos and Nicolas Kalogerakis.

Location: MAIN STACKS TP155.2 .M35 E54 2001

Engineering Experimentation: Planning, Execution, Reporting by Ernest O. Doebelin.

Location: MAIN STACKS TA153 .D64 1995

Essential Mathematical Methods for Physicists by Hans J. Weber and George B. Arfken.

Location: MAIN STACKS QC20 .W42 2004

Finite Element Methods in Electrical Power Engineering by A.B.J. Reece and T.W. Preston.

TK153 .R39 2000

Formal Engineering Design Synthesis edited by Erik K. Antonsson and Jonathan Cagan.

Location: MAIN STACKS TA174 .F67 2001

Fundamentals of Robotic Mechanical Systems: Theory, Methods and Algorithms by Jorge Angeles.

Location: MAIN STACKS TJ211 .A545 2003

Integral Methods in Science and Engineering edited by P. Schiavone, C. Constanda and A. Mioduchowski.

Location: MAIN STACKS QA431 .I49 2002

Mathematical Methods for Physicists by George B. Arfken.

Location: MAIN STACKS QA37.3 .A74 2001

Mathematical Methods for Students of Physics and Related Fields by Sadri Hassani.

Location: MAIN STACKS QC20 .H392 2000

Mathematical Methods of Statistical Mechanics of Model Systems by N.N. Bogolubo, B.I. Sadovnikov and A.S. Shumovsky.

Location: MAIN STACKS QC174.8 .B61813 1994

Mechanics of Structures: Variational and Computational Methods by Walter D. Pilkey and Walter Wunderlich.

Location: MAIN STACKS TA407 .P48 1994

Methods of Statistical Physics by Tomoyasu Tanaka.

Location: MAIN STACKS QC174.8 .T36 2002

Numerical Analysis of Electromagnetic Fields by Pei-bai Zhou.

Location: MAIN STACKS QC665 .E4 Z46 1993

Practical Guide to Industrial Safety: Methods for Process Safety Professionals by Nicholas P. Cheremisinoff.

Location: MAIN STACKS TP150 .S24 C44 2001

Quasiclassical Methods edited by Jeffrey Rauch and Barry Simon.

Location: MAIN STACKS QC20.7 .D5 Q83 1997

Selected Mathematical Methods in Theoretical Physics by Vladimir P. Krainov.

Location: MAIN STACKS QC20.5 .K73 2002

Statistical Methods in Control and Signal Processing edited by Tohru Katayama and Suelo Sugimoto.

Location: MAIN STACKS TJ217.7 .S73 1997

Transportation System Planning: Methods and Applications edited by Konstandinos G. Goulias.

Location: MAIN STACKS HE193 .T733 2003

6. Electronic Resources

GALILEO Multidisciplinary Databases <http://www.auctr.edu> (*Password Required*)

EBSCO Host Academic Search Premier

ProQuest Research Library

A-Z Science and Technology Databases

Environmental Protection Agency <http://www.epa.gov>

MathSciNet <http://www.ams.org/mathscinet> - a comprehensive database covering the world's mathematical literature since 1940. The web-based version of Mathematical Reviews (MR), MathSciNet provides access to the bibliographic data and reviews of mathematical research literature contained in the Mathematical Review Database and links to approximately 300,000 original articles.

Science Full Text Select <http://vnweb.hwwilsonweb.com/hww/jumpstart.jhtml?prod=SCFS> - provides 100% full-text access to articles, with accompanying indexing and abstracts, from over 300 science journals. Beginning in 1994 or later, the core selection of periodicals comes from H.W. Wilson's Applied Science & Technology Full Text, Biological & Agricultural Index and General Science Full Text.

SciFinder SCHOLAR (In Library Use Only) -SciFinder Scholar provides online access to accurate and comprehensive chemical and related scientific information. Databases include Chemical Abstracts, CAplusSM, REGISTRYSM, CASREACT, CHEMLIST, CHEMCAT and MEDLINE.

7. Print and Online Accessible[†] Journals

Advanced Materials & Processing[†]
Aerospace Engineering
American Ceramic Society Bulletin
American Machinist[†]
Annual Review of Biomedical Engineering[†]
Automotive Industries[†]
BioCycle[†]
Biomedical Engineering Online[†]
Chemical Engineering
Chemical Engineering Communications[†]
Chemical & Engineering News[†]
Chemical Engineering Research & Design[†]
Ceramic Engineering & Science Proceedings[†]
Civil Engineering
Civil Engineering News
Computer Methods in Biomechanics & Biomedical Engineering[†]
Concrete Construction[†]
Control Engineering[†]
Design Engineering[†]
Design News[†]
EDN[†]
Electrical Construction & Maintenance[†]
Electrical Engineering[†]
Electronic Engineering Transactions[†]
Electronic Design[†]
Electronics Weekly[†]
Energy Engineering[†]
The Engineer[†]
Engineering[†]
Engineering & Mining Journal[†]
Engineering Design Graphics Journal
Engineering Journal
Engineering News[†]
Engineers
Environmental Engineering[†]
Evaluation Engineering[†]
Experimental Mechanics[†]
Journal of Engineering Materials & Technology[†]
Journal of Engineering Mechanics[†]
Journal of Engineering Technology[†]
Journal of Environmental Engineering[†]
Journal of Fluids Engineering[†]
Journal of Heat Transfer[†]
Journal of Manufacturing Science & Engineering[†]
Journal of Micromechanics & Microengineering[†]
Journal of Motor Behavior[†]
Journal of Neural Engineering[†]
Journal Quality Technology[†]
Journal of Strain Analysis for Engineering Design[†]
Journal of Surveying Engineering[†]
Journal of the Air & Waste Management Association[†]
Journal of the American Ceramics Society[†]
Journal of the Institute of Energy[†]
Journal of the Research of the National Institute of Standards & Technology[†]
Lighting Design & Application[†]
Machine Design[†]
Manufacturing Engineering[†]
Material Handling Management[†]
Measurement Science & Technology[†]
Mechanical Engineering[†]
Microwave Journal[†]
Mining Engineering[†]
Modelling Simulation in Materials Science & Engineering[†]
Modern Materials Handling[†]
Modern Metals[†]
Nanotechnology[†]
Nuclear Engineer
Pipeline & Gas Journal[†]
Plant Engineering[†]
Pollution Engineering[†]
Power Electronics Technology for Engineers, Designers & Integrators[†]
Process & Environmental Protection[†]

Experimental Techniques[†]
Food & Bioproducts Processing[†]
Food Engineering[†]
Heat Transfer Engineering[†]
Heating/Piping/Air Conditioning Engineering[†]
Human Factors[†]
Hydraulics & Pneumatics[†]
Hydrocarbon Processing[†]
Industrial & Engineering Chemistry Research[†]
Industrial Engineer[†]
Journal of Applied Mechanics[†]
Journal of Architectural Engineering[†]
Journal of Biomechanical Engineering[†]
Journal of Bioscience & Bioengineering[†]
Journal of Energy Engineering[†]
Journal of Engineering Education

Process Engineering[†]
Professional Engineering[†]
Public Works[†]
Research in Engineering Design[†]
Structural Engineering/Earthquake Engineering[†]
Surveying & Land Information Science[†]
TCE[†]
Test & Measurement World[†]
Textile Research Journal[†]
Textile World[†]
Tooling & Production[†]
Tribology Transactions[†]
Water Environment & Technology[†]
Water Environment Research[†]
Wireless Review[†]
World Oil

8. Scientific Societies

American Association of Engineering Societies <http://www.aaes.org>
 American Institute of Aeronautics and Astronautics <http://www.aiaa.org>
 American Institute of Chemical Engineering <http://www.aiche.org>
 American Institute of Mining, Metallurgical and Petroleum Engineers <http://www.aimery.org>
 American Nuclear Society <http://www.ans.org>
 American Physical Society <http://www.aps.org>
 American Society of Civil Engineers <http://www.asce.org>
 American Society of Mechanical Engineers <http://www.asme.org>
 Architectural Engineering Institute <http://www.aeoinstitute.org>
 Biomedical Engineering Society <http://www.bmes.org>
 Institute of Biological Engineers <http://www.ibeweb.org>
 Institute of Electrical and Electronics Engineers, Inc. <http://www.ieee.org>
 Institute of Industrial Engineers <http://www.iienet.org>
 Institute of Transportation Engineers <http://www.ite.org>
 National Academy of Engineering <http://www.nae.edu>
 National Action Council for Minorities in Engineering <http://www.nacme.org>
 National Society of Black Engineers <http://www.nsbe.org>
 National Society of Professional Engineers <http://www.nspe.org>
 Society of Automotive Engineers <http://www.sae.org>
 Society of Petroleum Engineers <http://www.spe.org>
 Society of Plastics Engineers <http://www.4spe.org>
 Society of Women Engineers <http://www.societyofwomenengineers.org>

Library of Congress Classifications

The following classifications provide an organizational scheme for materials relating to **Engineering**. Be sure to browse the shelves nearby items in this bibliography to find related resources.

T	Technology
TA (1-2040)	Engineering - General / Civil Engineering - General
TC (1-978)	Hydraulic Engineering
TC (1501-1800)	Ocean Engineering
TD (1-1066)	Environmental Technology / Sanitary Engineering
TE (1-450)	Highway Engineering / Roads and Pavements
TF (1-1620)	Railroad Engineering & Operations
TG (1-470)	Bridge Engineering
TH (1-9745)	Building Construction (Includes Architectural and Structural Engineering)
TJ (1-1570)	Mechanical Engineering & Machinery
TK (1-9971)	Electrical Engineering / Electronics
TK (9001-9401)	Nuclear Engineering
TL (1-484)	Motor Vehicles
TL (500-777)	Aeronautics / Aeronautical Engineering
TL (780-785.8)	Rocket Propulsion / Rockets
TL (787-4050)	Astronautics / Space Travel
TN (1-997)	Mining Engineering
TN (600-799)	Metallurgy
TP (1-1185)	Chemical Technology
TP (155-156)	Chemical Engineering
TP (1080-1185)	Polymers & Polymer Manufacture
TS (1-2301)	Manufactures
TS (155-194)	Production Management / Operations Management

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