



Library **ENGINEERING** Resources

<http://www.library.astate.edu>

Many types of resources are available to you through the Dean B. Ellis Library. This guide is intended to help you find both print and online agriculture resources. Please note: this guide is only a starting point for your research, it is not meant to be a comprehensive list of resources. If you need further assistance, please visit the Reference Desk in the library.

Finding Books in the Dean B. Ellis Library

All books in the library are arranged by subject using the Library of Congress classification system for call numbers and subject headings. The call number for engineering begins with “TA”. The basic breakdown follows and includes additional call numbers that relate to the study of engineering:

TA1 – TA2040	-	Engineering (General), Civil Engineering
TC1 – TC1800	-	Hydraulic Engineering, Ocean Engineering
TD1 – TD1066	-	Environmental Technology, Sanitary Engineering
TE1 – TE298	-	Highway Engineering, Roads and Pavement
TF1 – TF1620	-	Railroad Engineering and Operation
TG1 – TG470	-	Bridge Engineering
TH1 – TH9745	-	Building Construction
TJ1 – TJ1519	-	Mechanical Engineering and Machinery
TK1 – TK9971	-	Electrical Engineering, Electronics, Nuclear Engineering
TN1 – TN997	-	Mining Engineering, Metallurgy

The numbers that follow the beginning letters relate to a narrower focus of the subject. For example, the call numbers: TA1 – TA2040 represent books about civil engineering within the general subject area of general engineering. An example of a specific call number for a book entitled, Great Jobs for Engineering Majors is TA157 .G327 2002.

Selected Reference Books

The Reference collection is located on the second floor of the library.

Annual Book of ASTM Standards. West Conshohocken, PA: ASTM International, 2002-Present.

REF TA401 .A653 2004

Dorf, Richard C., ed. CRC Handbook of Engineering Tables. New York: CRC, 2004.

REF TA151 .C76 2004

Dorf, Richard C., ed. The Engineering Handbook. 2nd ed. Boca Raton, FL: CRC, 2005.

REF TA151 .E424 2005

Hickey, Robert B. Electrical Engineer's Portable Handbook. 2nd ed. New York: McGraw-Hill, 2004.

REF TK151 .H53 2003

IEEE 100: The Authoritative Dictionary of IEEE Standard Terms. New York: IEEE, 2000.

REF TK9 .I28 2000

Kaplan, Steven M.. Wiley Electrical and Electronics Engineering Dictionary. Hoboken, NJ: Wiley-Interscience, 2004. **REF TK9 .K39 2004**

Karwowski, Waldemar, ed. International Encyclopedia of Ergonomics and Human Factors. 2nd ed. Boca Raton, FL: CRC/Taylor & Francis, 2006. **REF TA166 .I556 2006**

Keller, Harald, and Uwe Erb. Dictionary of Engineering Materials. Hoboken, NJ: John Wiley, 2004. **REF TA402 .K43 2004**

Kutz, Myer, ed. Mechanical Engineers' Handbook. 3rd ed. 4 vols. Hoboken, NJ: John Wiley & Sons, 2006. **REF TJ151 .M395 2006**

Lindeburg, Michael R. Civil Engineering Reference Manual for the PE Exam. Belmont, CA: Professional, 2003. **REF TA159 .L53 2003**

McGraw-Hill's National Electrical Code Handbook. 16th ed. New York: McGraw-Hill, 2002. **REF TK260 .M345**

Parker, Sybil P., ed. McGraw-Hill Dictionary of Engineering. New York: McGraw-Hill, 1997. **REF TA9 .M35 1997**

Ricketts, Jonathan, M. Kent Loftin, and Frederick S. Merritt. Standard Handbook for Civil Engineers. New York: McGraw-Hill, 2004. **REF TA151 .S8 2004**

Recent Circulating Books

***You can use the call number to browse the shelf for similar materials** Circulating books are labeled "General Collection" in the online catalog and are located on the third, fourth, and fifth floors of the library. If these books are checked out you may place a recall or hold at the Circulation desk.*

Horvath, Laszlo, and Imre J. Rudas. Modeling and Problem Solving Techniques for Engineers. Burlington, MA: Elsevier Academic, 2004. **TA345 .H67 2004**

Ion, John C. Laser Processing of Engineering Materials: Principles, Procedure and Industrial Applications. Oxford: Elsevier/Butterworth-Heinemann, 2005. **TA1677 .I51 2005**

Kahn, Yasmin Sabina. Engineering Architecture: The Vision of Fazlur R. Kahn. New York: W.W. Norton, 2004. **TA140.K48 .K48 2004**

Liu, Paul I. Energy, Technology, and the Environment. New York: ASME, 2005. **TD195.E49 .L57 2005**

Lyshevski, Sergey Edward. Nano- and Microelectromechanical Systems: Fundamentals of Nano- and Microengineering. 2nd ed. Boca Raton, FL: CRC, 2005. **TK7875 .L96 2005**

Moller, Bernd, and Michael Beer. Fuzzy Randomness: Uncertainty in Civil Engineering and Computational Mechanics. New York: Springer, 2004. **TA190 .M62 2004**

Sawyer, Clair N., Perry L. McCarty, and Gene F. Parkin. Chemistry for Environmental Engineering and Science. Boston: McGraw-Hill, 2003. **TD193 .S28 2003**

Spellman, Frank R., and Nancy E. Whiting. Environmental Engineer's Mathematics Handbook. Boca Raton, FL: CRC Press, 2005. **TD145 .S676 2005**

Online Article Databases, Indexes & Abstracts

Some of these databases provide the full text of the articles, while others provide only citations and/or abstracts. All are accessed by clicking on the "Article Databases" link from the library homepage.

Database	Citations/ Abstracts	Full Text	Other Information
ABI/Inform	Yes	Yes	Some articles are available full text
Academic Search Premier	Yes	Yes	Some articles are available full text
Energy Citations Database	Citations	Few	Compiled by the DOE
General Science Index	Yes	Few	Some articles are available full text
JSTOR	Yes	Yes	Articles are full text
MasterFILE Premier	Yes	Yes	Many article are available full text
Proceedings of the National Academy of Sciences of the USA	Yes	Yes	Articles are full text
Science Direct	Yes	Few	Large access to many science topics
SCIRUS	Yes	Few	Access to articles, websites, books
Web of Science	Yes	No	Large access to many science topics

Print Indexes and Abstracts

Indexes and abstracts will also lead you to journal and magazine articles on your topic. The printed indexes and abstracts are located in the Reference area of the library.

Applied Science & Technology Index (Abstract shelves)

Applied Mechanics Reviews, 1948- (Abstract Shelves)

Physics Abstracts, 1955- (Abstract Shelves)

Selected Print Journals in the Dean B. Ellis Library

Print journals from are located on the second floor in the tower and are shelved alphabetically by the title of the journal.

Environmental Science & Technology

Journal of Aerospace Engineering

Journal of Architectural Engineering

Journal of Bridge Engineering

Journal of Energy Engineering

Journal of Engineering for Gas Turbines and Power

Journal of Engineering Mechanics

Journal of Environmental Engineering

Journal of Fluids Engineering

Journal of Hydraulic Engineering

Journal of Hydrologic Engineering

Journal of Management in Engineering

Journal of Performance of Constructed Facilities

Journal of Structural Engineering

Journal of Transportation Engineering

Journal of Materials in Civil Engineering

Selected Electronic Journals

Electronic journals are accessed via the library's web page by clicking on "Article Databases".

Electronic Journal Title	Database
Canadian Journal of Civil Engineering	Academic Search Premier
Civil Engineering	Academic Search Premier
Design Engineering	ABI/Inform
Material Handling Management	ABI/Inform
Mechanical Engineering	ABI/Inform
Nuclear Engineering International	LexisNexis
Plastics Engineering	ABI/Inform
Power Engineering	ABI/Inform

Web Sites - Government

<http://www.itl.nist.gov/div898/handbook/> Engineering Statistics Handbook
<http://www.nsf.gov/home/eng/> National Science Foundation: Engineering
<http://stats.bls.gov/oco/ocos027.htm> U.S. Dept. of Labor: Occupational Outlook (Engineers)
<http://www.fcc.gov/oet/> FCC: Office of Engineering and Technology
<http://www.mel.nist.gov/> Manufacturing Engineering Laboratory
http://www.ornl.gov/sci/engineering_science_technology ESTD: Oak Ridge National Laboratory
<http://www.nsf.gov/sbe/srs/stats.htm> Division of Science Resources Statistics
<http://www.eeel.nist.gov/> Electronics and Electrical Engineering Laboratory
<http://seesar.lbl.gov/ccse/> Center for Computational Science and Engineering

Web Sites - Other Engineering Related

<http://www.ietf.org/> Internet Engineering Task Force
<http://www.memagazine.org/> Mechanical Engineering Magazine Online
<http://pubs.acs.org/cen/> Chemical & Engineering News
<http://www.asme.org/> American Society of Mechanical Engineers
<http://www.ei.org/> Engineering Information
<http://www.asee.org/> Engineering Education
<http://www.nationalacademies.org/> National Academies: Engineering
<http://www.iec.org/> International Engineering Consortium
<http://www.vlib.org/Engineering.html> Virtual Library: Engineering

Microforms

Microforms are located on the second floor of the library. You may make prints from the microfiche and microfilm for 10 cents per page.

United States.Congress.Senate.Committee on Commerce, Science, and Transportation.Subcommittee on Science, Technology, and Space. Women in Science and Technology: Hearing Before the Subcommittee on Science, Technology, and Space of the Committee on Commerce, Science, and Transportation, United States Senate, One Hundred Seventh Congress, Second Session, July 24, 2002. Microfiche. Washington: GPO, 2005. **Y 4.C 73/7:S.HRG.107-1125**

United States.Congress.House.Committee on Science.Subcommittee on Energy. The Future of University Nuclear Science and Engineering Programs: Hearing Before the Subcommittee on Energy of the Committee on Science, House of Representatives, One Hundred Eighth Congress, First Session, June 10, 2003. Microfiche. Washington: GPO, 2004. **Y 4.SCI 2:108-12**

Videos

Videos are located in the Media Services department on the first floor of the library.

Bridges. Videocassette. New York: The History Channel: Distributed by New Video, 2000. **TG15 .B75**

Engineering Drawing Videos. Videocassette. Springfield, OH: Hearlihy & Company, 2000. **T353 .E54**

Intellectual Property: A Workshop for Engineers / ASME International Committee on Issue Identification. Videocassette. New York: ASME, 2002. **KF2979 .I58 2002**