



Computer Science Library Resource Guide

Finding Books

You can find books in [UTMOST](#) (or the OhioLINK Central Catalog) using keywords for your topic or use the subject headings and related topics such as those listed below. More help is available from the [UTMOST Library Guide](#).

computer algorithms
system design

data structures
electronic digital computers

computer organization
computer engineering

computer architecture
computer interfaces

Finding Articles

Compendex *OhioLINK Research Database (1980-)* and **Compendex Historical** *(1884-1979)*

This database is a comprehensive interdisciplinary engineering database, the electronic equivalent of the print *Engineering Index*. Coverage is the entire spectrum of engineering, in depth, with abstracts from over 2,600 international journals, conference papers and proceedings, and technical reports. Updated monthly. For help using this index, use the library guide titled [OhioLINK Research Databases using OSearch](#).

Applied Science and Technology Abstracts *OhioLINK Research Database (1983-)*

This database indexes 411 core English-language scientific and technical publications. Topics include engineering, acoustics, chemistry, computers, metallurgy, physics, plastics, telecommunications, transportation, and waste management. Non-English-language articles are indexed if English abstracts are provided. Coverage includes trade and industrial publications, journals issued by professional and technical societies, and specialized subject periodicals, as well as special issues such as buyers' guides, directories, and conference proceedings. Updated monthly. For help using this index, use the library guide titled [OhioLINK Research Databases using OSearch](#).

Science Citation Index Expanded *OhioLINK Research Database (1980-)*

This database indexes approximately 5,900 major journals across 164 scientific disciplines. Some of the disciplines covered include: astronomy, biochemistry, biology, chemistry, materials science, mathematics, medicine, pharmacology, physics, plant sciences, and zoology. Use this database to trace research by a particular person or to discover articles that cite a particular person's work (cited author search). For help using this index, use the library guide titled [Using Citation Index databases from ISI](#).

Computer Source *OhioLINK Research Database (1965-)*

This database provides researchers with the latest information and current trends in high technology with abstracts and indexing for over 330 periodicals. Topics include computer science, programming, artificial intelligence, cybernetics, information systems, robotics, and software. This database features over 250 full text periodicals covering valuable market information in computers, telecommunications, electronics, and the Internet. For help using this index, use the library guide titled [OhioLINK Research Databases using OSearch](#).

Background Information

The following are some of the subject-specific encyclopedias that can help you find basic information about an engineering topic. They are found in the Engineering Library in Palmer (PH 2600), or on the first floor Reference collection of Carlson Library.

McGraw-Hill Encyclopedia of Science and Technology. 1997. 10 volumes.

Palmer Q123.M15 2003

VanNostrand's Scientific Encyclopedia. 1995. 2 volumes.

Reference Q121.V3

Encyclopedia of Computer Science. 2000.

Palmer QA76.15.E48x

Definitions

The following are some of the subject-specific dictionaries that can help you define civil engineering terms. They are found in the Engineering Library in Palmer (PH 2600), or on the first floor Reference collection of Carlson Library.

<i>ASTM Dictionary of Engineering, Science, & Technology.</i> 2000.	Palmer TA402.A86
<i>Microsoft Computer Dictionary.</i> 1998	Palmer QA76.15.M538
<i>The Computer Glossary.</i> 1998	Palmer QA76.15.F733

Standard Reference Sources

<i>Computer Engineering Handbook.</i> 2002.	Palmer TK7885.C645
<i>Image Processing Handbook.</i> 1999.	Palmer TA1637.R87
<i>Grid Computing.</i> 2003	Palmer QA76.9.C58 G755

Internet Resources

University of Toledo Site:

College of Engineering <http://www.eng.utoledo.edu>

US Government Sites:

Office of Advanced Scientific Computing Research <http://www.sc.doe.gov/ascr/>
National Coordination Office for Networking and Information Technology Research and Development <http://www.nitrd.gov/http://www.nitrd.gov/>

Professional Societies:

American Association for Artificial Intelligence <http://www.aaai.org/>
IEEE <http://www.ieee.org/>
Association for Computing Machinery <http://www.acm.org/>
American Society for Engineering Education <http://www.asee.org/>
Women in Computer Science <http://women.cs.uiuc.edu/>
Society of Women Engineers <http://www.swe.org/>