



Chemical Engineering 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](#).

biochemical engineering
chemistry, technical

gas engineering
chemical processes

chemical plants
polymers

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](#).

[SciFinder Scholar \(1907-\)](#)

This program provides access to the contents of *Chemical Abstracts* through a downloadable desktop client. UT has a maximum of 3 simultaneous users. This database is licensed for on-campus use only by students, staff, and faculty of University of Toledo.

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

Encyclopedia of Applied Physics. 1999. 23 volumes.

Reference QC5.E543

VanNostrand's Scientific Encyclopedia. 1995. 2 volumes.

Reference Q121.V3

Definitions

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

Ashford's Dictionary of Industrial Chemicals. 2001

Palmer TP200.A84x

ASTM Dictionary of Engineering, Science, & Technology. 2000

Palmer TA402.A86

Standard Reference Sources

<i>Rules of Thumb for Chemical Engineers.</i> 1994	Palmer TP151.R85
<i>Physical & Thermodynamic Properties of Pure Chemicals.</i> 1989. 5 vols	Palmer TD673.M47
<i>Merck Index.</i> 2001	Palmer RS51.M4
<i>Kirk-Othmer Encyclopedia of Chemical Technology.</i> 25 vols	Palmer TP9.E685
<i>Perry's Chemical Engineers' Handbook.</i> 1997	Palmer TP151.P45
<i>CRC Handbook of Chemistry and Physics.</i> 2005	Palmer QD65.H3

Internet Resources

University of Toledo Site:

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

US Government Sites:

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

Professional Societies:

American Institute of Chemical Engineers <http://www.aiche.org/>
Association of Consulting Chemists and Chemical Engineers <http://www.chemconsult.org/>
American Chemical Society <http://www.chemistry.org/>
American Society for Engineering Education <http://www.asee.org/>
Society of Women Engineers <http://www.swe.org/>