

Unit Operations Lab Helpful Resources

CAMEO—Library Catalog can be found: <http://search.library.cmu.edu>

Carnegie Mellon University Libraries Research Guides:

<http://guides.library.cmu.edu/>

Engineering & Science Library, 4th floor Wean Hall:

Encyclopedic Dictionary of Named Processes in Chemical Technology -

What is this chemical process? How does it work? Who developed it?

Reference Books area: TP155.7 .C664

Kent and Riegel's Handbook of Industrial Chemistry and Biotechnology

Reference Books area: TP145 .R53 2007 and electronic thru **Knovel** database.

Rules of Thumb for Chemical Engineers – process engineering shortcuts.

Reference Books area: TP151 .R85 2005 and electronic thru **Knovel** database.

Online:

Energy Citations Database - U.S. Department of Energy (DOE)

Office of Scientific and Technical Information (OSTI).

Google Scholar - Try the Advanced Scholar Search. Look for: Carnegie Mellon Fulltext.

Sigma Aldrich - Chemical & Biochemical products and kits.

Zotero – free FireFox tool to MANAGE your citations!

Need materials that Carnegie Mellon does not own?

→ **Interlibrary Loan** link on Library's homepage

•**ILLiad**: Request articles, books, and other items.

•**EZ-Borrow/PALCI**: Request *books* only – quick delivery.

Questions about ILLiad: 412-268-7215 or email: es82@andrew.cmu.edu

University of Pittsburgh Library System

In-person access to computers within [Hillman Library](#):

You can use the University of Pittsburgh's electronic databases and journals ONLY when you ask for a guest account at their reference desk. → Bring your Carnegie Mellon ID.

Donna Beck, Engineering Librarian, donnab@andrew.cmu.edu, 412-268-7213
Engineering and Science Library Reference email, sciref@andrew.cmu.edu, 412-268-2427

e-Journals A-Z & Off Campus/Wireless Access links: <http://search.library.cmu.edu>

[Articles & Databases:](#)

Academic OneFile – Millions of full-text articles with listening capability.
Try the “Subject Guide Search” for Chemical Engineering.

Access Science – Encyclopedia of Science & Technology Online.
Research updates, “Engineering & Materials: Chemical Engineering” + Images of the Week.

Compendex (Engineering Index) – can also search with **Inspec** + **NTIS**.
Interdisciplinary bibliographic engineering database – goes back to 1884.

CRC Handbook of Chemistry and Physics – property information,
physical formulas, mathematical tables.

CSA Illumina – includes **Environmental Sciences & Pollution Management** database.

Encyclopedia of Polymer Science and Technology

IEEE Xplore – includes select Chemical Engineering conference proceedings.

Kirk-Othmer Encyclopedia of Chemical Technology

Knovel – full-text manuals, handbooks, & encyclopedias + data analysis tools.

MetaLib – multiple database search. Try *Basic Search*: “Engineering/Tech” category.

Perry’s Chemical Engineers’ Handbook – for Chemical and Process Engineers.

PubMed – Biomedical literature/MEDLINE. Link to: [TUTORIALS](#).

SciFinder Scholar – access to Chemical Abstracts, technical reports & patents.

Scopus – abstract & citation database with 45.5 million records.

SpringerMaterials: The Landolt-Börnstein Database – physical/chemical data.

Ullman’s Encyclopedia of Industrial Chemistry

U.S. Patents (USPTO) – United States Patent and Trademark Office [Research Guide](#).
Also try: [Google Patents](#). Patent number search to obtain PDFs: pat2pdf.org.

Web of Science – *Science Citation Index* back to 1900 & *Cited Reference Search*.