

## **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/>

*Roger Sorrells Engineering & Science Library, 4<sup>th</sup> 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

[Rules of Thumb for Chemical Engineers](#) – process engineering shortcuts.

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

*Online:*

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

**Google Scholar** – Includes articles from Carnegie Mellon-provided resources.

**Sigma Aldrich** - Chemical & Biochemical products and kits.

**Zotero** – free Firefox tool to manage your citations. [Citing Print & Digital Resources](#)

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.

→ [Textbooks](#) suggestions on how to obtain

### **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.

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Engineering and Science Library Reference email, [sciref@andrew.cmu.edu](mailto:sciref@andrew.cmu.edu), 412-268-2427

[Carnegie Mellon University Libraries home page](#) has links to:

[\\*e-Journals A-Z](#)

[\\*Off Campus/Wireless Access](#)

*“Everything” searches Library Catalog & Databases*

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### **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.

**Encyclopedia of Polymer Science and Technology** (Wiley Online Library)

**IEEE Xplore** – includes select Chemical Engineering conference proceedings.

**Kirk-Othmer Encyclopedia of Chemical Technology** (Wiley Online Library)

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

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

**Proquest** – includes **Environmental Sciences & Pollution Management** database.

**PubMed** – Biomedical literature/MEDLINE. Link to: **TUTORIALS**.

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

**Scopus** – abstract & citation database of peer-reviewed literature with 47 million records.

**Ullman’s Encyclopedia of Industrial Chemistry** (Wiley Online Library)

**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 1899 & *Cited Reference Search*.