

Safety Issues in Science and Engineering Practice 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, 4th floor Wean Hall:

Encyclopedic Dictionary of Named Processes in Chemical Technology

How does this process 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:

[AIChE Journal](#) – American Institute of Chemical Engineers publication.

[Journal Citation Reports](#) – evaluating journals.

View a group of journals by Subject Category: ENGINEERING, CHEMICAL.

NIST databases – National Institute of Standards and Technology substances data.

Science Accelerator – scientific/technical information - U.S. Department of Energy.

Sigma Aldrich - Chemical products/kits. Material Safety Data Sheets-[MSDS link](#).

Standards: [IHS Global](#) – standards store [NSSN](#) – search engine for standards
2010 Annual Book of ASTM Standards: Sorrells Engineering & Science Library Reference

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.

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

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

[*Off Campus/Wireless Access](#)

“Everything” searches Library Catalog & Databases

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: “Engineering & Materials.”

Business Source Premier – articles in all business disciplines; economic reports.

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.

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 – chemical processes/equipment.

Proquest – includes **Dissertations & Theses @ Carnegie Mellon University** and
Environmental Sciences & Pollution Management database.

PubMed – Biomedical literature/MEDLINE. Link to: **TOXNET** – hazardous chemicals.

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*.