

Science Libraries Information Guide

Materials Science and Engineering: Structure of Materials

Library homepage: <http://search.library.cmu.edu>

[CAMEO: Library Catalog](#) Try: **Advanced Search**

Fun Stuff: [Why Study Materials?](#)

At the *Engineering & Science Library* (4400 Wean Hall) you will find materials covering all the science and engineering fields. At the *Hunt Library* you will find materials covering public policy as well as the fields of humanities & social sciences, business and the arts. Biology and Chemistry materials are held: *Mellon Institute Library* (4400 Fifth Ave., 4th fl).

→ **Book Loan Period**

Undergraduate: 30 days – 50 books - 1 renewal per book.

(a book may be recalled after 1 week)

→ **Journals** – can be checked out for 24 hours.

→ **Photocopiers and Scanners** – Available at all libraries.

→ **[Printing](#)**

Swipe your Carnegie Mellon ID card at the library printer release station to send your job to the printer.

→ **Renew your materials online**

Use “My Account” link to renew items.

Need materials that Carnegie Mellon does not own?

→ **Interlibrary Loan (ILL)**

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

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

Questions about ILL: 412-268-7215

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→ **Local libraries you can borrow from (in person)**

[The Carnegie Library of Pittsburgh](#)

- With your Carnegie Mellon ID card and proof of local residence, go to the Main (Oakland) Library desk for a library card.

The University of Pittsburgh Library System

- With your Carnegie Mellon ID and proof of current registration, go to the [Hillman Library](#) lending desk, lower level for a borrowing card.

At Hillman Library, you can also use the University of Pittsburgh’s electronic databases and journals ONLY when you ask for a guest account at their reference desk. This allows in person access to their public computers.

“Articles & Databases” on Library’s home page: <http://search.library.cmu.edu>

→ **Select Databases**

- **Academic OneFile** - 43 million full-text articles (1980-2011)—with listening capability—have text read to you.
Try the “Subject Guide Search” for Crystallography.
- **AccessScience** – Engineering & Materials news/encyclopedias.
- **CSA Illumina** - features Recent References Related to Technology, includes the **Materials Research Database with METADEX**.
- **Engineering Village** includes: **Compendex** Engineering Index back to 1884 (can also search with **Inspec** + **NTIS**)—The most comprehensive interdisciplinary bibliographic engineering database in the world.
- **Knovel** - includes nearly 3,000 full-text manuals, handbooks, and encyclopedias, plus interactive tools for data analysis.
- **SciFinder Scholar** – Chemical Abstracts
Explore Substances, Substance Identifier
—Get References, Retrieve References for: Crystal Structure.
- **Scopus** – abstract & citation database with 45.5 million records.
- **USPTO** - search U.S. patent databases.
With the Patent Number, use <http://www.pat2pdf.org/> to get the pdf.
- **Web of Science** - includes sciences, social sciences and the arts & humanities indexes, going back to 1900, CITATION searching.
Under ISI Web of Knowledge, you can also access *Journal Citation Reports*.

→ **Search multiple databases at the same time: MetaLib**

Try the Basic Search, choosing “Engineering/Tech” category.

→ **Off Campus/Wireless Access**: see link on Library’s home page

HINT: Track new articles in your subject as they are published via **RSS Feeds**.
Format your citations/bibliographies using → **Zotero** free FireFox extension.

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Research Guides: <http://guides.library.cmu.edu/>
Additional guide from: [University of Wisconsin-Madison: X-Ray Crystallography](#)