

Cornell University
Library

Engineering Library, Carpenter Hall

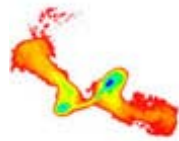
Engineering General 150 - Cornell Libraries and Engineering Information Competencies

Outline:

- [Cornell Libraries](#)
- [Digital Collections](#)
- [Information Competencies](#)

[Cornell Libraries](#) - There are 20 libraries at Cornell, see library gateway (at www.library.cornell.edu/individual-libraries). With 7 million volumes and 26,000 electronic journals, Cornell is ranked among the top 10 research libraries in the country.

[Digital Collections](#) - The Library has **digital collections** as well as print collections. See examples below.



[ArXiv.org](http://arxiv.org) - research papers in physics, computer science, mathematics, and other scientific communities.



[eCommons@Cornell](#) is the university's collection of scholarly information by faculty, staff, and students. See Cornell Engineering Quarterly and BEE 453 Computer Aided Engineering student projects.



The [Kinematic Models for Design Digital Library](#) (K-MODDL) is a resource for learning and teaching the principles of kinematics. Includes moving mechanical models.



[VIVO](#) transcends campus, college and department divides to provide an integrated view of the life sciences at Cornell. VIVO has been extended to engineering, physical sciences, and mathematics as well. Browse and search for faculty, research and educational activities, facilities, and tools.

Engineering Information Competencies

We cover the following 5 competencies, which are necessary for all engineering students to become skilled in library research. At the end will be an online quiz, which tests your knowledge.

1. **Find the book** University Physics by Young and Freedman in the online catalog (<http://catalog.library.cornell.edu>). Display long view to see subject headings.
2. **Find the journal** IEEE Transactions on Biomedical Engineering in the online catalog and/or e-Journal Titles list (link from URL above). Drill down to an individual article.

Show the Google - Google Scholar - Find It - Databases by Discipline progression.

3. **Determine which online database** to use for a topic after consulting [Databases by Discipline](#). (ex. of hybrid vehicles). **Locate the full text of an article** found from a technical database. Use an online database (such as Applied Science and Technology Abstracts, INSPEC) to find appropriate articles on a subject (biometrics). Note how this differs from **Find It** on the [Library Gateway](#).
4. **Find a Patent** - Cornell has many important inventors, including Wilson Greatbatch (implantable pacemaker), Willis Carrier (air conditioning), Robert S. Langer (biomedical applications of polymers), and Leroy Grumman. Several Cornell inventors have been elected [Cornell entrepreneur](#) of the year. Search [Google Patents](#) for US patent 1859624. What did Ezra Cornell invent in 1844? If you need patent applications, or foreign patents, search [MicroPatent](#). For searching Cornell patents only, see the [Cornell Center for Technology, Enterprise, and Commercialization](#).
5. **Refworks** - Keep track of your citations using [RefWorks](#), <http://refworks.cornell.edu>, or other citation management tool.
6. Test your Research Knowledge - Take an Online [Clicker Quiz](#) on Finding Engineering Information

Comments about the class?