

BME Modeling and Design  
 580.111, Professor Haase  
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## LIBRARY CATALOG -- What is it and why use it?

The JHU Libraries Catalog contains records for all the books, videos, DVD's, microforms, and other materials owned by the JHU libraries. Use the catalog as a starting point for research or when you need background.

## A BIG DIFFERENCE :

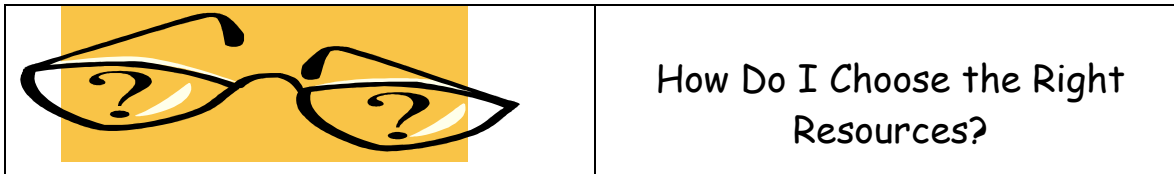
Catalog: lists book titles and journal *titles* (not articles)

Databases: gives journal *article* information

When using the catalog, beware of these things:

### Copy/Holding information

Collection	Call No.	Copy	Status
Eisenhower Stacks	R 856.15 .B56 1995	c. 1	Available
Eisenhower Science Reference, Non-Circ		R856.147 2005	c. 1 Available
Libraries Service Center	R856.A2 S681 1986	c. 1	Available
Eisenhower Stacks	QA303.2.S35 2003 QUARTO	c. 1	Available
Eisenhower Stacks	R 856.15 .B56 1995	c. 2	Checked out 12/01/2007
			Request Add Copy to MyList



**FOR BACKGROUND INFORMATION, START WITH THE CATALOG**

SAVE YOUR VALUABLE TIME and always start with the "Advanced" search page.

Get there by clicking "More Catalog Search Options" on the front page - that will take you straight to the page for "ADVANCED KEYWORD."

**Search by:**

General Keyword	<input type="text"/>	and	<input type="button" value="GO"/>
Author Keyword	<input type="text"/>	and	<input type="button" value="GO"/>
Title Keyword	<input type="text"/>	and	<input type="button" value="GO"/>
Journal/Newspaper Title Keywor	<input type="text"/>		

**Refine your search (optional):**

You can refine your search by selecting a limit or sort option.

**Limits**

<b>Location:</b>	<b>Language:</b>	<b>Material Type:</b>
Available Online ALL EISENHOWER LOCATIONS - Eisenhower Library Building - Eisenhower Reference - Eisenhower Special Collections & Archives	Arabic Bengali Chinese Czech Dutch	Text (print, electronic, microform) Archives and manuscripts Printed music Manuscript music Printed maps

Put your word into TITLE or SUBJECT KEYWORD. For example, if you type **muscle\*** into TITLE KEYWORD, you get 740+ tems; obviously you'll need to reduce that list by using some of the LIMITS at the bottom of the page.

Remember that once you find a book you like, others about that same topic will be in that same place, with that same main call number.

## DIG DEEPER: LOOK FOR JOURNAL ARTICLES

To find articles, go to our database page at

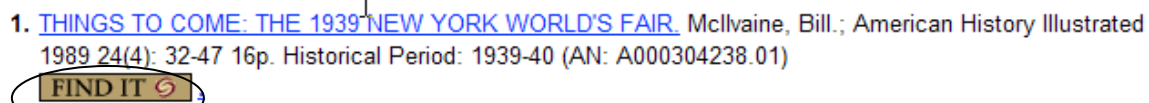
<http://www.library.jhu.edu/eresources/databases/index.html> . Choose a subject (e.g., "Engineering"), then choose one of the article databases to do your search.

Within the database, when you find an article that you want:

**Step 1:** Look for icons. If there's a PDF or HTML, use it.



**Step 2:** If the only icon is FIND IT, use it.



IF we have THAT journal, for THAT year, ONLINE, you'll get a link(s) to it.

If we DO NOT have this year of this journal online, a page will tell you that, and suggest that you look in the library catalog.



## Recommended Sources for Articles and Other Information

List of **engineering-related** databases, handbooks, and other sources:

<http://www.library.jhu.edu/eresources/databases/engineering.html>

List of databases and other sources for **ALL subjects**:

<http://www.library.jhu.edu/eresources/databases/index.html>

### Encyclopedia

#### AccessScience

This is an online encyclopedia with articles about and definitions of topics in science and engineering. The level of detail varies, but it's always good to take a look to get background.

*Tip:* The article on **Biomechanics** is good (find it by putting the word into the search box). Beware of the somewhat old references, however.

### Handbooks, Material Properties, and Data

Look at the page on the Engineering Subject Guide entitled "material properties and data":

<http://www.library.jhu.edu/researchhelp/physics/properties.html>

#### ENGnetBASE

This is a collection of hundreds of online engineering books published by CRC Press. Subjects include biomedical, civil, computer, electrical, lasers and optical, nanotechnology, systems, and more.

*Tip:* Don't spend time drilling down through "categories"; just enter your search term in the box on the upper right. What will come up is a list of chapters and the name of the book they're in. Click on a chapter title and you'll go to the searchable PDF.

## Article Databases

### General Science Full-Text (1983+) [multidisciplinary]

This database covers articles of at least one column in length, from English-language periodicals published in the U.S. and Great Britain. Includes peer-reviewed journals as well as articles from Science, Nature, popular science magazines, and The New York Times weekly Tuesday science section.

**Tip:** Before you search, click "Open Database Selection Area" on top left. This lets you choose several of this publisher's other databases simultaneously, INCLUDING

### Applied Science and Technology Full-Text (1983+)

This database covers periodicals in the sciences and technology, including journal articles, conference proceedings, editorials, some letters, tables, and buyers' guides. The periodicals are international English language, with monthly updates.

### Compendex (Engineering Index) (1884+)

This huge database covers all aspects of engineering. Articles from 5,000+ engineering journals, conferences, and other publications are indexed. Because this is an engineering database, you can use pretty specific words for your searches.

### IEEE Explore (1988+)

This database contains the publications of the IEEE (Institute of Electrical and Electronics Engineers). This organization is a group of societies, one of which is "Engineering in Biology and Medicine."

### MedlinePlus -- <http://medlineplus.gov/>

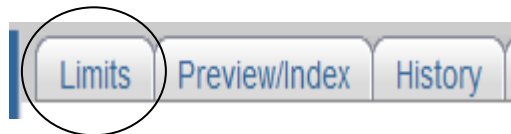
This is a site for consumers. It includes patient information about medical procedures, including images of various kinds, and is dependable and up to date.

## PubMed (*mid-1950s+*)

PubMed contains article citations and abstracts from journals in medicine, nursing, bioethics, and biomedical topics.

**Important Tip:** To get more full text, use the link from the library database page, NOT "pubmed.gov" !

To limit your search to the articles in the fields of bioethics or history of medicine, choose LIMITS, then select those two subsets.



### More PubMed Tips:

- 1) Truncation symbol is \* (after at least 3 letters); e.g., injur\*
- 2) Capitalize AND, OR, and NOT
- 3) Use LIMITS to choose language, human vs. animal, and other parameters. To avoid getting letters and editorials, check the box for "only items with abstracts."

## Google Scholar -- <http://scholar.google.com>

JHU now has much of our full text linked up. To find out more, go to <http://www.library.jhu.edu/researchhelp/googlescholar.html> .

**Tip:** Because this search engine covers so much, use several very specific terms and command language, if you know it. Or, use the advanced search screen:

[http://scholar.google.com/advanced\\_scholar\\_search?hl=en&lr=](http://scholar.google.com/advanced_scholar_search?hl=en&lr=)

## Web of Knowledge (aka Web of Science; Science Citation Index) (*1945+*)

Use this database to trace lines of research forward in time, through "cited reference searching." That is, if you find a great article written several years ago and want to find out who has cited that article SINCE THEN, you can do that.

**Tip:** The "related articles" tool is very helpful.

## Government Information

Remember that the U.S. Government has \*tons\* of reliable information online. The official site of the U.S. Government is [www.usa.gov](http://www.usa.gov). You can search by topic, keyword, or agency.

### U.S. Food and Drug Administration (FDA) - [www.fda.gov](http://www.fda.gov)

The FDA has a section called Center for Devices and Radiological Health (CDRH). This gives a lot of information about medical devices, including a section called "Getting to Market with a Medical Device (<http://www.fda.gov/cdrh/devadvice/3122.html>).

## How do I evaluate the information that I've found?

*(I don't want to make a fool of myself by only citing sources I found using "Google" or "Wikipedia.")*

Scholarly Sources - Most of your sources should come from "scholarly" sources or trustworthy web sites, such as peer-reviewed journals, sites ending in .gov.

**Tip:** Many databases will sort your search results into groups that are "peer-reviewed." The library's blog had a post about this: <http://blogs.library.jhu.edu/wordpress/?p=205#more-205>

Evaluating Pages from the Open Web - *Anyone* can publish on the web!

- Be smart about which pages you choose to depend upon for information.
- On Firefox, use **TOOLS, PAGE INFO, Modified** to check the date on which the page was last revised. Today's date won't tell you anything -- a page may have an automatic modifier -- but a non-current date is a tip-off.

Pages to Help:

UC Berkeley's page: <http://www.lib.berkeley.edu/TeachingLib/Guides/Internet/Evaluate.html>

Virginia Tech's page: <http://www.lib.vt.edu/help/instruct/evaluate/evaluating.html>

## And How Do I CITE All of These Things?

Throughout your career, you will always need to record where your information came from. You must cite your sources correctly so that your professors and employers can find the information that you used.

**Chicago Manual of Style** -- <http://www.chicagomanualofstyle.org/home.html>

You can also find print copies at Z253.U69 2003 in the General Reference section on M Level, and on the tables on B and D Levels.

## Other Important Things to Know

Look at the Research Guides for your subject area !

The librarians have created guides with tips about how to find particular kinds of materials in your field.

<http://www.library.jhu.edu/researchhelp/subjectguides.html>

Using laptops in the library

<http://www.library.jhu.edu/services/computing/laptops.html>

Printing from your laptop in the library

<http://www.library.jhu.edu/services/computing/laptopprinting.html>

More wired and wireless laptop information

<http://www.library.jhu.edu/services/computing/>

Connecting from Anywhere

We have a proxy server that allows JHU affiliates to access our stuff from anywhere in the world.

<http://www.library.jhu.edu/services/computing/remotearchive.html>