



# Bromfield Library Resource Guide: Engineering

Most books relating to Engineering are found in the **T through TP sections** of the Library's circulating and reference collections; books on the physical principles on which technological efforts are based can be found in **QD**.

**Library Web Site:** <http://library.mansfield.ohio-state.edu/>

## T Technology and Engineering

T	Technology (General)
TA	Civil Engineering
TC	Hydraulic & Ocean Engineering
TD	Environmental Technology
	Sanitary Engineering
TE	Highway Engineering
TG	Bridge Engineering
TH	Building Construction
TJ	Mechanical Engineering
TK	Electrical Engineering
	Electronics
	Nuclear Engineering
TP	Chemical Technology

## Databases (Use To Find Articles)

From the Bromfield Library home page, click on **Other Research Databases**, then choose **By Name**, **OR** choose **By Subject and then choose "engineering"** to find the following resources:

### Academic Search Premier

A general database that covers a wide range of science and technology topics.

### AccessScience

Full-text of the McGraw-Hill Encyclopedia of Science and Technology.

### Applied Science and Technology Abstracts -

Trade, industrial, technical and professional periodicals.

### Compendex

Index and abstracts to engineering literature from international journals, conferences, and reports.

### GeoRef

Indexes geography and earth science journals, books, maps.

### INSPEC

Abstracts physics, electrical engineering, electronics and computing sources.

## Digital Media Center Databases

From the Bromfield Library home page, click on **Other Research Databases** and select the **Digital Media Center** link:

### Art and Architecture

80,000+ images including engineered structures.

### Encyclopedia of Physics Demonstrations -

Featuring 600 physics demonstrations available for viewing and downloading.

## Selected Reference Books

Following is a sample of reference books relating to Technology and Engineering. Use the Library's online catalog to find specific books on your topic.

*CRC Handbook of Chemistry and Physics*  
QD65 .C51

*American Electrician's Handbook*  
TJ151 .C8

*Machinery's Handbook*  
TJ151 .M15

*Marks' Standard Handbook for Mechanical Engineers*  
TJ151.S82

*The Electrical Engineering Handbook*  
TK145 .E354

*Electronics engineers' handbook*  
TK7825 .E34

*Kirk-Othmer Concise Encyclopedia of Chemical Technology*  
TP9. K54

# Web Resources for Topics in Engineering

## Civil Engineering

### **American Society of Civil Engineers**

<http://www.asce.org>

### **Accreditation Board for Engineering and Technology**

<http://www.abet.org>

Provides information on accreditation for academic programs, listing of workshops, and the ABET Code of Conduct.

### **Discover Engineering Online**

<http://www.discoverengineering.org>

Introduces interested youth to the diversity of careers in engineering.

## Hydraulic & Ocean Engineering

### **Hydraulic Engineering Research Unit of the USDA Plant Science & Water Conservation Research Lab**

<http://www.pswcrl.ars.usda.gov/hydr.htm>

### **Coastal Engineering Page.**

<http://www.coastal.udel.edu/coastal.html>

Links to ocean engineering topics including field experiments, tsunamis, tides, conferences, photographs, and organizations.

## Environmental Technology

### **Institute of Professional Environmental Practice**

<http://www.ipep.org>

Certifying organization for the Qualified Environmental Professional and the Environmental Professional Intern certifications.

## Highway and Bridge Engineering

### **Turner-Fairbank Highway Research Center.**

<http://www.tfhrc.gov/about/research.htm>

TFHRC provides the Federal Highway Administration with advanced research and development related to new highway technologies. Full text research data related to highways.

### **Bridge Construction and Engineering**

<http://bridgepros.com>

Info on construction & history of bridges. Learning Center discusses bridge types, has models & links to lesson plans. Many links.

## Building Construction

### **National Institute of Building Sciences.**

<http://www.nibs.org>

Disseminates nationally recognized technical & regulatory information.

### **Buildings Technology Center.**

<http://www.ornl.gov/ORNL/BTC>

Partners with private and public industry for technology development analysis in order to develop and deploy sustainable and energy-efficient building systems.

## Electrical and Electronic Engineering

### **Institute of Electrical and Electronics Engineers.**

<http://www.ieee.org>

Portal for diverse links and full text in these fields.

## Mechanical Engineering

### **American Society of Mechanical Engineers.**

<http://www.asme.org>

Membership site with links to full text resources.

### **American Society of Mechanical Engineers.**

<http://icrank.com>

I-Crank has full text resources, many links.

## Nuclear Engineering

### **World Nuclear Association.**

<http://www.world-nuclear.org>

Contains a library, glossary, reactor statistics, conference information, links, reports, articles, papers, and publications for schools and educational uses.

### **Tennessee Valley Authority**

<http://www.tva.gov/power/nuclear.htm>

TVA nuclear power generation sites are discussed here.

## Chemical Technology

### **ChemWeb**

<http://www.chemweb.com>

Free registration required for this source of free and fee resources for chemical research and industry information.