

SELECTED INFORMATION: MATERIALS SCIENCE

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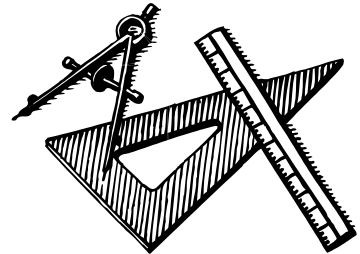
BOOKS AND MORE

Under the "Find Books" section of the web page, link to the [ASC catalog](#).
Search by subject for terms such as:

- Strength of materials
- Materials-fatigue
- Building materials
- Specific materials such as Plastics, Steel, Wood, Concrete etc.

PERIODICAL ARTICLES

- [Academic Search Complete](#)
- [Computers & Applied Sciences Complete](#)
- [ProQuest](#)
- [Science Direct](#)



NEWSPAPERS: COMMODITY PRICES

Wall Street Journal Section C (Money & Investing)

New York Times Section C (Business Day). Look under "Futures"

See also: NYMex: the New York Mercantile Exchange web site (below)

PRICES: PRODUCTS AND SERVICES DIRECTORIES

Chemical Engineering Buyers Guide 2006 (Ref.TP 158 c 47 2006)

SELECTED REFERENCE MATERIALS

GENERAL

CRB commodity yearbook (Ref. HF1041 C56)

Includes year-end prices, as well as production information, for a large number of commodities.

Encyclopedia of chemical technology (Ref.TP9 E685 1992 25 vols.)

Gives a very thorough treatment of all subjects including individual materials.

Machinery's handbook (Ref. TJ151 M3) LATEST EDITION ON RESERVE

This is a standard handbook includes sections on both the strength of materials and the properties, treatment, and testing of materials.

McGraw-Hill encyclopedia of science and technology (Ref. Q121 M3 2007)

This comprehensive encyclopedia includes excellent articles on individual materials.

MATERIALS SCIENCE

Composite materials handbook (Ref. TA418.9 C6 S38 1992)

This source includes material on the fabrication, performance, processing, handling, application, and future potential of composite materials.

CRC materials science and engineering handbook (Ref. TA403.4 C74 1994)

Provides statistical information about the properties and selection of materials.

Engineered materials handbook (Ref. TA403 E497 1987)

Provides in-depth engineering information on polymeric materials including composites, engineering plastics, adhesives and sealants, and ceramics and glass.

Materials handbook (Ref. TA402 B73 1997)

Describes 14,000 commercially available substances in terms of their composition, methods of production, major properties, characteristics, and uses.

Materials selection in mechanical design (Ref. TA403.6 A74 1992)

Presents "a procedure for material and process selection in mechanical design" with information on engineering materials and their properties.

METALS

ASME. Handbook (Ref. TJ233 A57 4 vols.)

Includes information on metals engineering design and processes and metals properties.

ASM Handbook (Ref. TA459 M43 10th ed.)

A comprehensive handbook covering all aspects of metals. For material not in the 10th edition, check in the 9th edition, Metals Handbook (Ref. TA459 A5).

Rare metals handbook (Ref. TA459 H28)

Includes reference data on over 30 rare or uncommon metals.

Also: ASM Metals reference book (Ref. TA459 A78)

PLASTICS

Concise encyclopedia of polymer science and engineering (Ref. TP1087 C66 1990)

Covers polymeric materials, natural and synthetic; polymer properties; synthesis and reactions; analytical methods, physical processes.

Modern plastics handbook (Ref. TA455 P5 M62 2000)

Provides technical information on all aspects of plastics materials and processes.

CONCRETE

ACI manual of concrete practice (Ref. TA439 A358 1997)

Focuses on the materials and general properties of concrete including construction practices, inspection, uses of concrete, specifications, properties, and special processes.

Also: Concrete construction handbook (Ref. TA681 W23 1974)

WOOD

Wood engineering and construction handbook (Ref. TA 666 W63 1997)

Chapter 1 provides engineers, architects and others with a source of information on the physical and mechanical properties of wood.

Wood engineering handbook (Ref. TA419 W78 1982)

Provides information on the physical and mechanical properties of wood.

Also: Timber construction manual (Ref. TA666 T47) and Wood handbook: wood as an engineering material (Ref. S21 A37 no. 72)

SELECTED INTERNET RESOURCES

Current price lists <http://www.discountsteel.com>

Discount Steel - the leading source for acquiring all types of metals, in all shapes and grades

MatWeb <http://www.matweb.com>

This is a commercial site that offers a free materials information database that includes the engineering properties, the manufacturer, and the composition of over 21,580 materials.

NyMex : the New York Mercantile Exchange <http://www.nymex.com>

Provides current commodity prices for a variety of materials.

WebElements Periodic Table <http://www.webelements.com/>

"WebElements aims to be a high quality source of chemistry information on the WWW relating to the periodic table."

Materials Science Resources on the Web <http://www.istl.org/02-spring/internet.html>

This is a guide to web resources developed by a librarian at Iowa State University.

U.S. Geological Survey Mineral Resources Program <http://minerals.usgs.gov/>

The Mineral Resources Program funds science to provide and communicate current, impartial information on the occurrence, quality, quantity, and availability of mineral resources, includes commodity information.

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Materials Science Bibliography Fall 2009

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