SELECTED INFORMATION: MATERIALS SCIENCE

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SELECTED REFERENCE MATERIALS

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
Includes sections on the strength of materials, their 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.

S.A.E Handbook (Ref TL151 .S62)

MATERIALS SCIENCE

ASM Handbook: Composites (Ref TA459 .M43 10th ed. v. 21)

Composite Materials Handbook (Ref. TA418.9 C6 S38 1992)
Includes data on fabrication, performance, processing, handling, & applications of composites.


CRC Materials Science and Engineering Handbook (Ref. TA403.4 C74 1994)
Provides statistical information about the properties and selection of materials.

Encyclopedia of Global Resources (Ref HC.85.E49 2010)

Fundamentals of Composites Manufacturing: Materials, Methods and Applications (Ref TA418.9.C6 S73)

Describes materials in terms of composition, production, major properties, characteristics, and uses.

Materials Selection in Mechanical Design (Ref. TA403.6 A74 1992)

Presents information on engineering materials and their properties.


Provides an introduction to the basic concepts of the mechanical behavior of composite materials and laminated composite structures

Structural composite materials (Ref TA418.9.C6 C36 2010)
**METALS**

*ASM Handbook* (Ref. TA459 M43 10th ed.)
   
   Covers all aspects of metals. See also *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)

*Dictionary of metals* (Ref TA459 .D53 2012)

**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.

*Handbook of plastics technologies: the complete guide to properties and performance* (Ref TA455.P5 H37 2006)

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

*Reinforced plastics handbook.* (Ref TP1177 .R68 2004)

**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)

*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)

**NEWSPAPERS: COMMODITY PRICES**

*Wall Street Journal* Section C (Money & Investing)

**PRICES: PRODUCTS AND SERVICES DIRECTORIES**

*Chemical Engineering Buyers Guide* Ref.TP 158 c 47)