Engineered Materials Handbook Asm

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Engineered Materials Handbook, Desk Edition Springer Science & Business Media

This index eliminates that need to search through multiple back-of-the-book indexes to find where a subject is addressed. The A-to-Z listing will help users find important handbook content in volumes where they may not have thought to look.

Elements of Metallurgy and Engineering Alloys CRC Press

This book is ASM's standard reference on the mechanical characteristics and testing of metals, plastics, ceramics, and composites. Understand the basics of mechanical behavior with in-depth coverage on testing methods for those materials. Comparative mechanical properties and the mechanical characteristics of metals, plastics, and ceramics are included throughout for general reference. Updated references to ISO, ASTM, DIN, EN, JIS and other standards are also included.

Handbook of Materials Selection ASM International

A comprehensive reference on the properties, selection, processing, and applications of the most widely used nonmetallic engineering materials. Section 1, General Information and Data, contains information applicable both to polymers and to ceramics and glasses. It includes an illustrated glossary, a collection of engineering tables and data, and a guide to materials selection. Sections 2 through 7 focus on polymeric materials--plastics, elastomers, polymer-matrix composites, adhesives, and sealants--with the information largely updated and expanded from the first three volumes of the Engineered Materials Handbook. Ceramics and glasses are covered in Sections 8 through 12, also with updated and expanded information. Annotation copyright by Book News, Inc., Portland, OR

ASM Engineering Materials Reference Book, Second Edition John Wiley & Sons

Featuring in-depth discussions on tensile and compressive properties, shear properties, strength, hardness, environmental effects, and creep crack growth, "Mechanical Properties of Engineered Materials" considers computation of principal stresses and strains, mechanical testing, plasticity in ceramics, metals, intermetallics, and polymers, materials selection for thermal shock resistance, the analysis of failure mechanisms such as fatigue, fracture, and creep, and fatigue life prediction. It is a top-shelf reference for professionals and students in materials, chemical, mechanical, corrosion, industrial, civil, and maintenance engineering; and surface chemistry.

Mechanical Testing and Evaluation ASM International(OH)

Publisher Description

ASM Handbook McGraw-Hill Science, Engineering & Mathematics

The CRC Materials Science and Engineering Handbook, Third Edition is the most comprehensive source available for data on engineering materials. Organized in an easy-to-follow format based on materials properties, this definitive reference features data verified through major professional societies in the materials field, such as ASM International a

ASM Handbook: Friction, lubrication, and wear technology CRC Press

This handbook documents engineering methodologies for the development of standardized, statistically -based material property data for polymer matrix composite materials. Also provided are data summaries for a number of relevant composite material systems for which available data meets specific MIL-HNBK-17 requirements for publication. Additionally, supporting materials are summarized. This handbook has been developed and is maintained as a joint effort of the Department of Defense and the Federal Aviation Administration. The book's primary purpose is the standardization of engineering data development methodologies related to characterization, testing, data reduction, and data reporting of properties for composite material systems for which data meeting specific requirements is available.

Engineering Design ASM International

Erstmals in einem Band werden Werkstoffe hier (in zwei getrennten Systemen) sowohl nach ihrer technischen Anwendung als auch nach ihren Eigenschaften geordnet. - Benutzer können deshalb zunächst nach der Gruppe von Materialen suchen, die für eine spezielle Anwendung geeignet sind, und anschließend Details über jedes einzelne Material finden - Suchkriterien sind Eigenschaften wie Wärmeleitfähigkeit, optisches Reflexionsvermögen, Elastizität usw. und Anwendungsgebiete wie Bauwesen, Biomedizin, Fahrzeugbau, Luftfahrttechnik, Elektrotechnik usw. - berücksichtigt werden sowohl herkömmliche Werkstoffe (Eisen- und Nichteisenmetalle, Kunststoffe, Klebstoffe) als auch Kompositwerkstoffe und synthetische Materialen wie Laminate, Fasern und Keramiken

CRC Materials Science and Engineering Handbook CRC Press

Comprehensive datasheets on more than 60 titanium alloys More than 200 pages on metallurgy and fabrication procedures Input from more than 50 contributors from several countries Careful editorial review for accuracy and usefulness. Materials Properties Handbook: Titanium Alloys provides a data base for information on titanium and its alloys, and the selection of specific alloys for specific applications. The most comprehensive titanium data package ever assembled provides extensive information on applications, physical properties, corrosion, mechanical properties (including design allowances where available), fatigue, fracture properties, and elevated temperature properties. The appropriate specifications for each alloy are included. This international effort has provided a broad information base that has been compiled and reviewed by leading experts within the titanium industry, from several countries, encompassing numerous technology areas. Inputs have been obtained from the titanium industry, fabricators, users, government and academia. This up-to-date package covers information from almost the inception of the titanium industry, in the 1950s, to mid-1992. The information, organized by alloy, makes this exhaustive collection an easy-to-use data base at your fingertips, which generally includes all the product forms for each alloy. The 60-plus data sheets supply not only extensive graphical and tabular information on properties, but the datasheets also describe or illustrate important factors which would aid in the selection of the proper alloy or heat treatment. The datasheets are further supplemented with back-ground information on the metallurgy and fabrication characteristics of titanium alloys. An especially extensive coverage of properties, processing and metallurgy is provided in the datasheet for the workhorse of the titanium industry, Ti-6Al-4V. This compendium includes the newest alloys made public. even those still under development. In many cases, key references are included for further information on a given subject. Comprehensive datasheets provide extensive information on: Applications, Specifications, Corrosion, Mechanical Design Properties, Fatigue and Fracture

ASM Handbook John Wiley & Sons

This volume is a comprehensive reference on the basic concepts, methodologies, and information sources dealing with materials selection and its integration with engineering design processes. Contents include contributions from 100+ experts involved with design, materials selection, and manufacturing. Addresses metals, ceramics, polymers, and composites and provides many case histories and examples.

Engineered Materials Handbook: Ceramics and glasses ASM International

These volumes cover the properties, processing, and applications of metals and nonmetallic engineering materials. They are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria.

ASM Handbook: Failure analysis and prevention CRC Press

These volumes cover the properties, processing, and applications of metals and nonmetallic engineering materials. They are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria.

Engineered Materials Handbook ASM International(OH)

This 700-page ASM Handbook is comprised of 48 peer-reviewed articles on how metals and nonmetals are effected by various elements. The major areas covered include ferrous and nonferrous metals: processed materials, and clad metals; special products, including amorphous materials, intermatllics, and metal matrix composites; and on metallics, including ceramics, concrete, coatings, composites and elastomers. It also includes an article on the global cost of corrosion and a full-color gallery of corrosion damage.

ASM Handbook CRC Press

New single-volume edition of a reference source on the properties, selection, processing, testing, and characterization of metals and their alloys. The general introduction contains a glossary of about 3,000 terms, common engineering tables, graphs comparing properties of metals and nonmetals, articles on crystal structure, practical uses of phase diagrams, engineering design, and materials selection. Subsequent topics include irons, steels, and high-performance alloys; nonferrous alloys and special-purpose materials; processing; and testing, inspection, and materials characterization. Annotation copyrighted by Book News, Inc., Portland, OR

CRC Materials Science and Engineering Handbook CRC Press

These volumes cover the properties, processing, and applications of metals and nonmetallic engineering materials. They are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria.

Handbook of Aluminum Bonding Technology and Data ASM International

This reference book makes it easy for anyone involved in materials selection, or in the design and manufacture of metallic structural components to quickly screen materials for a particular application. Information on practically all ferrous and nonferrous metals including powder metals is presented in tabular form for easy review and comparison between different materials. Included are chemical compositions, physical and mechanical properties, manufacturing processes, applications, pertinent specifications and standards, and test methods. Contents Overview: Glossary of metallurgical terms Selection of structural materials (specifications and standards, life cycle and failure modes, materials properties and design, and properties and applications) Physical data on the elements and alloys Testing and inspection Chemical composition and processing characteristics

Selective Guide to Literature on Materials Engineering ASM International

Volume 10 addresses materials characterization from an engineering

perspective, describing the capabilities and limitations of various analytical tools and what they reveal about the composition, structure, and state of engineering materials. It examines optical metallography, electron microscopy, diffraction, chromatography, spectroscopy, and chemical analysis. It also discusses sample requirements and imaging enhancement techniques and includes glossary and other reference information -- publisher.

Copper and Copper Alloys ASM International(OH)

These volumes cover the properties, processing, and applications of metals and nonmetallic engineering materials. They are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria.

ASM Metals Reference Book, 3rd Edition ASM International(OH)

These volumes cover the properties, processing, and applications of metals and nonmetallic engineering materials. They are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria.

ASM Handbook Asm International

This reference book is designed to allow quick retrieval of data on a wide range of subjects related to metals. It lists the chemical compositions, and physical and mechanical properties, of numerous metals and alloys, and provides tables that compare and rank the density, melting point, and elastic