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Abrasive Erosion and Corrosion of Hydraulic Machinery
Aluminum and Aluminum Alloys
Stainless Steel Sheet and Strip from France, Germany, Italy, Japan, Korea, Mexico, Taiwan, and the United Kingdom
ASM Handbook
Gear Materials, Properties, and Manufacture
The History of Stainless Steel
ASM Handbook
Introduction to Stainless Steels
High Performance Stainless Steels
Magnesium Technology 2020
Springer Handbook of Condensed Matter and Materials Data
Handbook of Materials Selection for Engineering Applications
ASM Specialty Handbook
Handbook of Induction Heating
Stainless Steel Sheet and Strip from France, Germany, Italy, Japan, Korea, Mexico, Taiwan, and the United Kingdom, Invs. 701-TA-381-382 and 731-TA-797-804
(Review)
Carbon and Alloy Steels
Materials Handbook
Corrosion of Beryllium
Copper and Copper Alloys
ASM Specialty Handbook
Nickel, Cobalt, and Their Alloys
Atlas of Stress-strain Curves
ASM Specialty Handbook
Metallography of Steels: Interpretation of Structure and the Effects of Processing
Duplex Stainless Steels
Welding Metallurgy and Weldability
ASM Specialty Handbook
Stainless Steels
Concise Metals Engineering Data Book
Steel Castings Handbook, 6th Edition
Manufacturing and Application of Stainless Steels
Copper and Copper Alloys
Welding Metallurgy and Weldability of Nickel-Base Alloys
DeGarmo's Materials and Processes in Manufacturing
Powder Metallurgy Stainless Steels
Stainless Steels for Design Engineers
Alloy Digest Sourcebook

Advanced Steels Nickel Alloys

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Abrasive Erosion and Corrosion of Hydraulic Machinery ASM

International The Magnesium Technology Symposium, the event on which this collection is based, is one of the largest yearly gatherings of magnesium specialists in the world. Papers represent all aspects of the field, ranging from primary production to applications to recycling. Moreover, papers explore everything from basic research findings to industrialization. Magnesium Technology 2020 covers a broad spectrum of current topics, including alloys and their properties; cast products and processing; wrought products and processing; forming, joining, and machining; corrosion and surface finishing; and structural applications. In addition, there is coverage of new and emerging applications.

Aluminum and Aluminum Alloys John Wiley & Sons
This reference documents

ferrous alloy development as presented in Alloy Digest since 1952. Its concise data sheet summaries (which run about two pages) provide material composition, properties, heat treatment, fabrication characteristics, product forms, and applications. Following a general overview

Stainless Steel Sheet and Strip from France, Germany, Italy, Japan, Korea, Mexico, Taiwan, and the United Kingdom

ASM International
This one-stop reference is a tremendous value and time saver for engineers, designers and researchers. Emerging technologies, including aluminum metal-matrix composites, are combined with all the essential aluminum information from the ASM Handbook series (with updated statistical information).

ASM Handbook CRC Press

Updated and translated by André Luiz V. da Costa e Silva
This book is a combination of a metallographic atlas for steels and cast irons and an introductory textbook covering the fundamentals of phase

transformations and heat treatment of these materials. Every important stage of processing, from casting to cold working is clearly discussed and copiously illustrated with metallographs that show the obtained structures, both desired and those achieved when deviations occur. First published in 1951 by Professor Hubertus Colpaert from the Institute for Technological Research (IPT) of São Paulo, Brazil, this book became one of the most important Brazilian references for professionals interested in the processing, treatment, and application of steels and cast irons. In the Fourth Edition and English translation, updated and translated by Professor André Luiz V. da Costa e Silva, the concept of the original edition was preserved while the important developments of recent decades, both in metallographic characterization and in steel and iron products, as well as progress in the understanding of the transformations that made the extraordinary developments of these alloys possible, were

added. Most metallographs are of actual industrial materials and a large number originate from industry leaders or laboratories at the forefront of steel and iron development. As steel continues to be the most widely used metallic material in the world, Metallography of Steels continues to be an essential reference for students, metallographers, and engineers interested in understanding processing-properties-structure relationships of the material. The balance between theoretical and applied information makes this book a valuable companion for even experienced steel practitioners.

Gear Materials, Properties, and Manufacture

ASM International
ASM Specialty Handbook® Stainless Steels The best single-volume reference on the metallurgy, selection, processing, performance, and evaluation of stainless steels, incorporating essential information culled from across the ASM Handbook series. Includes additional data and reference information carefully selected and adapted

from other authoritative ASM sources.

The History of Stainless Steel ASM International Reflecting the rapid advances in new materials development, this work offers up-to-date information on the properties and applications of various classes of metals, polymers, ceramics and composites. It aims to simplify the materials selection process and show how to lower materials and manufacturing costs, drawing on such sources as vendor supplies
ASM Handbook DIANE Publishing

"Advanced Steels: The Recent Scenario in Steel Science and Technology" contains more than 50 articles selected from the proceedings of the International Conference on Advanced Steels (ICAS) held during 9-11, Nov, 2010 in Guilin, China. This book covers almost all important aspects of steels from physical metallurgy, steel grades, processing and fabrication, simulation, to properties and applications. The book is intended for researchers and postgraduate students in the field of steels, metallurgy and materials science. Prof.

Yuqing Weng is an academician of Chinese Academy of Engineering and the president of The Chinese Society for Metals. Prof. Han Dong is the vice president of Central Iron & Steel Research Institute and the director of National Engineering Research Center of Advanced Steel Technology, China. Prof. Yong Gan is an academician of Chinese Academy of Engineering, the vice president of Chinese Academy of Engineering and the president of Central Iron & Steel Research Institute, China.

Introduction to Stainless Steels John Wiley & Sons

This book is a comprehensive guide to the compositions, properties, processing, performance, and applications of nickel, cobalt, and their alloys. It includes all of the essential information contained in the ASM Handbook series, as well as new or updated coverage in many areas in the nickel, cobalt, and related industries.

High Performance Stainless Steels Springer Science & Business Media Materials covered include carbon, alloy and stainless steels; alloy cast irons;

high-alloy cast steels; superalloys; titanium and titanium alloys; refractory metals and alloys; nickel-chromium and nickel-thoria alloys; structural intermetallics; structural ceramics, cermets, and cemented carbides; and carbon-composites.

Magnesium Technology

2020 ASM International Springer Handbook of Condensed Matter and Materials Data provides a concise compilation of data and functional relationships from the fields of solid-state physics and materials in this 1200 page volume. The data, encapsulated in 914 tables and 1025 illustrations, have been selected and extracted primarily from the extensive high-quality data collection Landolt-Börnstein and also from other systematic data sources and recent publications of physical and technical property data. Many chapters are authored by Landolt-Börnstein editors, including the prominent Springer Handbook editors, W. Martienssen and H. Warlimont themselves. The Handbook is designed to be useful as a desktop reference for fast and easy retrieval of essential and reliable data in the

lab or office. References to more extensive data sources are also provided in the book and by interlinking to the relevant sources on the enclosed CD-ROM.

Physicists, chemists and engineers engaged in fields of solid-state sciences and materials technologies in research, development and application will appreciate the ready access to the key information coherently organized within this wide-ranging Handbook. From the reviews: "...this is the most complete compilation I have ever seen... When I received the book, I immediately searched for data I never found elsewhere..., and I found them rapidly... No doubt that this book will soon be in every library and on the desk of most solid state scientists and engineers. It will never be at rest." -Physicalia Magazine

Springer Handbook of Condensed Matter and Materials Data

ASM International Duplex Stainless Steels (DSSs) are chromium-nickel-molybdenum-iron alloys that are usually in proportions optimized for equalizing the volume fractions of austenite and ferrite. Due to their

ferritic-austenitic microstructure, they possess a higher mechanical strength and a better corrosion resistance than standard austenitic steels. This type of steel is now increasing its application and market field due to its very good properties and relatively low cost. This book is a review of the most recent progress achieved in the last 10 years on microstructure, corrosion resistance and mechanical strength properties, as well as applications, due to the development of new grades. Special attention will be given to fatigue and fracture behavior and to proposed models to account for mechanical behavior. Each subject will be developed in chapters written by experts recognized around the international industrial and scientific communities. The use of duplex stainless steels has grown rapidly in the last 10 years, particularly in the oil and gas industry, chemical tankers, pulp and paper as well as the chemical industry. In all these examples, topics like welding, corrosion resistance and mechanical strength properties (mainly in the

fatigue domain) are crucial. Therefore, the update of welding and corrosion properties and the introduction of topics like texture effects, fatigue and fracture strength properties, and mechanical behavior modeling give this book specific focus and character.

Handbook of Materials Selection for Engineering Applications

DIANE Publishing

All of the critical technical aspects of gear materials technology are addressed in this new reference work. Gear Materials, Properties, and Manufacture is intended for gear metallurgists and materials specialists, manufacturing engineers, lubrication technologists, and analysts concerned with gear failures who seek a better understanding of gear performance and gear life. This volume complements other gear texts that emphasize the design, geometry, and theory of gears. The coverage begins with an overview of the various types of gears used, important gear terminology, applied stresses and strength requirements associated with gears, and

lubrication and wear. This is followed by in-depth treatment of metallic (ferrous and nonferrous alloys) and plastic gear materials. Emphasis is on the properties of carburized steels, the material of choice for high-performance power transmission gearing.

ASM Specialty Handbook ASM

International

Now in its eleventh edition, DeGarmo's Materials and Processes in Manufacturing has been a market-leading text on manufacturing and manufacturing processes courses for more than fifty years. Authors J T. Black and Ron Kohser have continued this book's long and distinguished tradition of exceedingly clear presentation and highly practical approach to materials and processes, presenting mathematical models and analytical equations only when they enhance the basic understanding of the material. Completely revised and updated to reflect all current practices, standards, and materials, the eleventh edition has new coverage of additive manufacturing, lean engineering, and processes related to ceramics, polymers, and plastics.

Handbook of Induction Heating

Springer Nature

Avoids most of the advanced technical aspects, language, derivations, and premises to present an introduction for readers new to metals entirely or to stainless steel in particular.

Discusses what stainless steels are and what they do, their history, some metallurgical principles, principles of corr

Stainless Steel Sheet and Strip from France, Germany, Italy, Japan, Korea, Mexico, Taiwan, and the United

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Stainless Steels

This book evaluates the latest developments in nickel alloys and high-alloy special stainless steels by material number, price, wear rate in corrosive media, mechanical and metallurgical characteristics, weldability, and resistance to pitting and crevice corrosion. Nickel Alloys is at the forefront in the search for the most economic solutions to c Carbon and Alloy Steels ASM International
The second edition of the Handbook of Induction Heating reflects the number of substantial

advances that have taken place over the last decade in theory, computer modeling, semi-conductor power supplies, and process technology of induction heating and induction heat treating. This edition continues to be a synthesis of information, discoveries, and technical insights that have been accumulated at Inductoheat Inc. With an emphasis on design and implementation, the newest edition of this seminal guide provides numerous case studies, ready-to-use tables, diagrams, rules-of-thumb, simplified formulas, and graphs for working professionals and students.

Materials Handbook John Wiley & Sons

Stainless SteelsASM International

Corrosion of Beryllium

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This unique and practical book provides quick and easy access to data on the physical and chemical properties of all classes of materials. The second edition has been much expanded to include whole new families of materials while many of the existing families are broadened and refined with new material and up-to-date information. Particular emphasis is

placed on the properties of common industrial materials in each class.

Detailed appendices provide additional information, and careful indexing and a tabular format make the data quickly accessible. This book is an essential tool for any practitioner or academic working in materials or in engineering.

Copper and Copper Alloys

ASM International

Describes the weldability aspects of structural materials used in a wide variety of engineering structures, including steels, stainless steels, Ni-base alloys, and Al-base alloys Welding Metallurgy and Weldability describes weld failure mechanisms associated with either fabrication or service, and failure mechanisms related to microstructure of the weldment.

Weldability issues are divided into fabrication and service related failures; early chapters address hot cracking, warm (solid-state) cracking, and cold cracking that occur during initial fabrication, or repair. Guidance on failure analysis is also provided, along with examples of SEM fractography that will aid in determining failure

mechanisms. Welding Metallurgy and Weldability examines a number of weldability testing techniques that can be used to quantify susceptibility to various forms of weld cracking. Describes the mechanisms of weldability along with methods to improve weldability Includes an introduction to weldability testing and techniques, including strain-to-fracture and Varestraint tests Chapters are illustrated with practical examples based on 30 plus years of experience in the field Illustrating the weldability aspects of structural materials used in a wide variety of engineering structures, Welding Metallurgy and Weldability provides engineers and students with the information needed to understand the basic concepts of welding metallurgy and to interpret the failures in welded components.

ASM Specialty Handbook MDPI

This handbook is a comprehensive guide to the selection and applications of copper and copper alloys, which constitute one of the largest and most diverse families of engineering materials. The handbook

includes all of the essential information contained in the ASM

Handbook series, as well as important reference information and data from

a wide variety of ASM publications and industry sources.

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