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 Certain Stainless Steel Plate from Belgium, Canada, Italy, Korea, South Africa, and Taiwan, Invs. 701-TA-376-377 and 379 and 731-TA-788-793 (Review)
 Carbon and Alloy Steels
 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)
 DeGarmo's Materials and Processes in Manufacturing
 Nickel, Cobalt, and Their Alloys
 ASM Specialty Handbook
 Welding Metallurgy and Weldability
 Copper and Copper Alloys
 ASM Specialty Handbook
 Stainless Steels for Design Engineers

Welding Metallurgy and Weldability of Nickel-Base Alloys ASM International

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

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.

CONCISE METALS ENGINEERING DATA BOOK

ASM International

This ASM Handbook is the most comprehensive collection of engineering information on this important structural material published in the last sixty years. Prepared with the cooperation of the International Magnesium Association, it presents the current industrial practices and provides information and data about the properties and performance of magnesium alloys. Materials science and engineering are covered, including processing, properties, and commercial uses.

Alloy Digest Sourcebook 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

HANDBOOK OF MATERIALS SELECTION FOR ENGINEERING APPLICATIONS

ASM International

Following a general introduction, which reviews steelmaking practices as well as the classification, general properties, and applications of steel, this volume contains four major sections that describe processing characteristics, service characteristics, corrosion behavior, and material requirements

STAINLESS STEEL SHEET AND STRIP FROM FRANCE, GERMANY, ITALY, JAPAN, KOREA, MEXICO, TAIWAN, AND THE UNITED KINGDOM

John Wiley & Sons

The rate of growth of stainless steel has outpaced that of other metals and alloys, and by 2010 may surpass aluminum as the second most widely used metal after carbon steel. The 2007 world production of stainless steel was approximately 30,000,000 tons and has nearly doubled in the last ten years. This growth is occurring at the same time that the production of stainless steel continues to become more consolidated. One result of this is a more widespread need to understand stainless steel with fewer resources to provide that information. The concurrent technical evolution in stainless steel and increasing volatility of raw material prices has made it more important for the engineers and designers who use stainless steel to make sound technical judgments about which

stainless steels to use and how to use them.

ASM Specialty Handbook John Wiley & Sons

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.

Powder Metallurgy Stainless Steels 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

Stainless Steels Springer Science & Business Media

The report summarizes the corrosion behavior of beryllium. The effects on beryllium of the following environments are considered: moisture, salt solutions, acids, alkalis, gases, organic liquids, molten materials, and solid materials. Stress-corrosion cracking and galvanic effects are also discussed. A final section of the report reviews various types of coatings for protection of beryllium from corrosion by a variety of environments.

Corrosion of Beryllium Springer Science & Business Media

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.

Certain Stainless Steel Plate from Belgium, Canada, Italy, Korea, South Africa, and Taiwan, Invs. 701-TA-376-377 and 379 and 731-TA-788-793 (Review) ASM International "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.

CARBON AND ALLOY STEELS

DIANE Publishing

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.

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) John Wiley & Sons

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
DeGarmo's Materials and Processes in Manufacturing Asm International

Stainless steels represent a quite interesting material family, both from a scientific and commercial point of view, following to their excellent combination in terms of strength and ductility together with corrosion resistance. Thanks to such properties, stainless steels have been indispensable for the technological progress during the last century and their annual consumption increased faster than other materials. They find application in all these fields requiring good corrosion resistance

together with ability to be worked into complex geometries. Despite to their diffusion as a consolidated materials, many research fields are active regarding the possibility to increase stainless steels mechanical properties and corrosion resistance by grain refinement or by alloying by interstitial elements. At the same time innovations are coming from the manufacturing process of such a family of materials, also including the possibility to manufacture them starting from metals powder for 3D printing. The Special Issue scope embraces interdisciplinary work covering physical metallurgy and processes, reporting about experimental and theoretical progress concerning microstructural evolution during processing, microstructure-properties relations, applications including automotive, energy and structural.

Nickel, Cobalt, and Their Alloys ASM International

Cast iron offers the design engineer a low-cost, high-strength material that can be easily cast into a wide variety of useful, and sometimes complex, shapes. This handbook from ASM covers the entire spectrum of one of the most widely used and versatile of all metals.

ASM Specialty Handbook ASM International

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.

Welding Metallurgy and Weldability Springer Nature

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.

Stainless Steels

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 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.

Copper and Copper Alloys MDPI

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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.