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HEAT TREATER'S GUIDE

PRACTICES AND PROCEDURES FOR NONFERROUS ALLOYS

ASM International The material is contained in more than 500 datasheet articles, each devoted exclusively to one particular alloy. The datasheets are arranged by alloy groups: nickel, aluminium, copper, magnesium, titanium, zinc and superalloys.

HEAT TREATER'S GUIDE

PRACTICES AND PROCEDURES FOR IRONS AND STEELS

ASM International This edition is a complete revision and contains a great deal of new subject matter including information on ferrous powder metallurgy, cast irons, ultra high strength steels, furnace atmospheres, quenching processes, SPC and computer technology. Data on over 135 additional irons and steels have been added to the previously-covered 280 alloys.

HEAT TREATER'S GUIDE

PRACTICES AND PROCEDURES FOR IRONS AND STEELS

HEAT TREATER'S GUIDE - PRACTICES AND PROCEDURES FOR IRONS AND STEELS

HEAT TREATMENT OF GEARS

A PRACTICAL GUIDE FOR ENGINEERS

ASM International Annotation Rakhit wants other engineers to avoid the considerable trouble he had understanding the art of gear heat treatment when he first embarked on a career in gear design and manufacturing. He explains how heat treating and gears made of some kinds of steel gives the gears high geometric accuracy, but can also distort them and raise the cost of manufacturing, so a gear engineer needs to

excel in manufacturing, lubrication, life and failure analysis, and machine design as well as design. He presents a case history of each successful gear heat treatment process that provide information on the quality of gear that can be expected with the proper control of material and processes. Annotation copyrighted by Book News Inc., Portland, OR

PRACTICAL HEAT TREATING

SECOND EDITION

ASM International What is heat treatment? This book describes heat treating technology in clear, concise, and nontheoretical language. It is an excellent introduction and guide for design and manufacturing engineers, technicians, students, and others who need to understand why heat treatment is specified and how different processes are used to obtain desired properties. The new Second Edition has been extensively updated and revised by Jon. L. Dossett, who has more than forty years of experience in heat treating operations and management. The update adds important information about new processes and process control techniques that have been developed or refined in recent years. Helpful appendices have been added on decarburization of steels, boost/diffuses cycles for carburizing, and process verification.

ASM HANDBOOK

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.

PRACTICAL NITRIDING AND FERRITIC NITROCARBURIZING

ASM International

HEAT TREATER'S GUIDE

PRACTICES AND PROCEDURES FOR NONFERROUS ALLOYS

HEAT TREATMENT

MASTER CONTROL MANUAL

Hanser This book focuses on heat-treating by ASM, SME, and AISI standards. The manual has been created for use in student education, as well as to guide professionals who has been heat treating their entire lives. It is written without the typical metallurgical jargon. This book will serve as a training manual from day one in learning how to heat treat a metal, and then also serve as a day to day reference for a lifetime. This manual zeros in on the popular tool steels, alloy steels, heat-treatable stainless steels, case hardening steels, and more. It deals with these metals with up-to-date usage and processing recipes. What is different with this manual from all the others is that it doesn't just deal with the heat-treatment

process, it also covers the continuation of the hardening process with cryogenics. Yes, it is written to help those who may want a thorough understanding of what goes on in the process of heat-treating, and how to do it better. However, it also shows how proper heat and cryogenic processing can save your company money. Making money through longer life tooling, decarb-free and stress relief, all while learning how to create a better, finer grain structure. This manual shows the reader that hardness is only an indication of hardness, and that the real money savings is in the fine grained structure. This manual is written for toolmakers, engineers, heat-treaters, procurement, management personnel, and anyone else who is involved in metals. Metals are affected by the entire thermal scale from 2400°F, down to -320°F. That is the complete range of thermally treated metals and that is what this manual covers.

SUPERALLOYS

A TECHNICAL GUIDE, 2ND EDITION

ASM International This book covers virtually all technical aspects related to the selection, processing, use, and analysis of superalloys. The text of this new second edition has been completely revised and expanded with many new figures and tables added. In developing this new edition, the focus has been on providing comprehensive and practical coverage of superalloys technology. Some highlights include the most complete and up-to-date presentation available on alloy melting. Coverage of alloy selection provides many tips and guidelines that the reader can use in identifying an appropriate alloy for a specific application. The relation of properties and microstructure is covered in more detail than in previous books.

ASM SPECIALTY HANDBOOK

HEAT-RESISTANT MATERIALS

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.

ASM HANDBOOK

FUNDAMENTALS, TESTING AND PROTECTION

STEEL METALLURGY FOR THE NON-METALLURGIST

ASM International This book explains the metallurgy of steel and its heat treatment for non-metallurgists. It starts from simple concepts--beginning at the level of high-school chemistry classes--and building to more complex concepts involved in heat treatment of most all types of steel as well as cast iron. It was inspired by the author when working with practicing bladesmiths for more than 15 years. Most chapters in the book contain a summary at the end. These summaries provide a short review of

the contents of each chapter. This book is *THE* practical primer on steel metallurgy for those who heat, forge, or machine steel.

METALLURGY FOR THE NON-METALLURGIST, SECOND EDITION

ASM International The completely revised Second Edition of Metallurgy for the Non-Metallurgist provides a solid understanding of the basic principles and current practices of metallurgy. The new edition has been extensively updated with broader coverage of topics, new and improved illustrations, and more explanation of basic concepts. It is a "must-have" ready reference on metallurgy!

FAILURE ANALYSIS OF HEAT TREATED STEEL COMPONENTS

ASM International

STEEL HEAT TREATMENT HANDBOOK - 2 VOLUME SET

CRC Press This reference presents the classical perspectives that form the basis of heat treatment processes while incorporating descriptions of the latest advances to impact this enduring technology. The second edition of the bestselling Steel Heat Treatment Handbook now offers abundantly updated and extended coverage in two self-contained volumes:

HANDBOOK OF INDUCTION HEATING

CRC Press 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.

PRACTICAL INDUCTION HEAT TREATING, SECOND EDITION

ASM International Practical Induction Heat Treating, Second Edition is a quick reference source for induction heaters. This book ties-in the metallurgy, theory, and practice of induction heat treating from a hands-on explanation of what floor people need to know. This book includes practical tables and process analysis of induction heating.

ALLOYING

UNDERSTANDING THE BASICS

ASM International Alloying: Understanding the Basics is a comprehensive guide to the influence of alloy additions on mechanical properties, physical properties, corrosion and chemical behavior, and processing and manufacturing characteristics. The coverage considers "alloying" to include any addition of an element or

compound that interacts with a base metal to influence properties. Thus, the book addresses the beneficial effects of major alloy additions, inoculants, dopants, grain refiners, and other elements that have been deliberately added to improve performance, as well the detrimental effects of minor elements or residual (tramp) elements included in charge materials or that result from improper melting or refining techniques. The content is presented in a concise, user-friendly format. Numerous figures and tables are provided. The coverage has been weighted to provide the most detailed information on the most industrially important materials.

PRACTICAL HEAT TREATING

BASIC PRINCIPLES

HEAT TREATMENT AND PROPERTIES OF IRON AND STEEL

GEAR MATERIALS, PROPERTIES, AND MANUFACTURE

ASM International 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.

HEAT TREATMENT, SELECTION, AND APPLICATION OF TOOL STEELS

Improper heat treatment of tool steels can lead to shorter tool life, higher incidences of metal fatigue, dangerous procedures, and expensive errors. To avoid these costly mistakes, leading expert Bill Bryson takes the mystery out of tool steel heat treatment by presenting a clear, practical approach to common techniques and applications. This easy-to-understand book is ideal for toolmakers, machinists, and engineers. It takes a comprehensive look at common heat treatment procedures used in shops around the world and provides detailed instructions for all types of tool steels.

METALLURGY AND HEAT TREATMENT, THE POCKET BOOK (2ND EDITION)

NICKEL, COBALT, AND THEIR ALLOYS

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.

STEEL HEAT TREATMENT

METALLURGY AND TECHNOLOGIES

CRC Press One of two self-contained volumes belonging to the newly revised Steel Heat Treatment Handbook, Second Edition, this book examines the behavior and processes involved in modern steel heat treatment applications. Steel Heat Treatment: Metallurgy and Technologies presents the principles that form the basis of heat treatment processes while incorporating detailed descriptions of advances emerging since the 1997 publication of the first edition. Revised, updated, and expanded, this book ensures up-to-date and thorough discussions of how specific heat treatment processes and different alloy elements affect the structure and the classification and mechanisms of steel transformation, distortion of properties of steel alloys. The book includes entirely new chapters on heat-treated components, and the treatment of tool steels, stainless steels, and powder metallurgy steel components. Steel Heat Treatment: Metallurgy and Technologies provides a focused resource for everyday use by advanced students and practitioners in metallurgy, process design, heat treatment, and mechanical and materials engineering.

KNIFE ENGINEERING

STEEL, HEAT TREATING, AND GEOMETRY

An in-depth exploration of the effects of different steels, heat treatments, and edge geometries on knife performance. This book provides ratings for toughness, edge retention, and corrosion resistance for all of the popular knife steels. Micrographs of over 50 steels. Specific recommended heat treatments for each steel. And answers to questions like: 1) Does a thinner or thicker edge last longer? 2) What heat treatment leads to the best performance? 3) Are there performance benefits to forging blades? 4) Should I use stainless or carbon steel? All of these questions and more are answered by a metallurgist who grew up around the knife industry.

TITANIUM

A TECHNICAL GUIDE, 2ND EDITION

ASM International Designed to support the need of engineering, management, and other professionals for information on titanium by providing an overview of the major topics, this book provides a concise summary of the most useful information required to understand titanium and its alloys. The author provides a review of the significant features of the metallurgy and application of titanium and its alloys. All technical aspects of the use of titanium are covered, with sufficient metals property data for most users. Because of its unique density, corrosion resistance, and relative strength advantages over competing materials such as aluminum, steels, and superalloys, titanium has found a niche in many industries. Much of this use has occurred through military research, and subsequent applications in aircraft, of gas turbine engines,

although more recent use features replacement joints, golf clubs, and bicycles. Contents include: A primer on titanium and its alloys, Introduction to selection of titanium alloys, Understanding titanium's metallurgy and mill products, Forging and forming, Castings, Powder metallurgy, Heat treating, Joining technology and practice, Machining, Cleaning and finishing, Structure/processing/property relationships, Corrosion resistance, Advanced alloys and future directions, Appendices: Summary table of titanium alloys, Titanium alloy datasheets, Cross-reference to titanium alloys, Listing of selected specification and standardization organizations, Selected manufacturers, suppliers, services, Corrosion data, Machining data.

SUGGESTIONS TO MEDICAL AUTHORS AND A.M.A. STYLE BOOK

**WITH A GUIDE TO ABBREVIATION OF BIBLIOGRAPHIC REFERENCES ;
FOR THE GUIDANCE OF AUTHORS, EDITORS, COMPOSITORS, AND
PROOFREADERS**

DISTORTION IN TOOL STEELS

KANGAROO MOTHER CARE

A PRACTICAL GUIDE

World Health Organization Kangaroo mother care is a method of care of preterm infants which involves infants being carried, usually by the mother, with skin-to-skin contact. This guide is intended for health professionals responsible for the care of low-birth-weight and preterm infants. Designed to be adapted to local conditions, it provides guidance on how to organize services at the referral level and on what is needed to provide effective kangaroo mother care.

ATLAS OF TIME-TEMPERATURE DIAGRAMS FOR IRONS AND STEELS

ASM International Worldwide Participation: Fourteen countries represented.

STAINLESS STEELS FOR DESIGN ENGINEERS

ASM International 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 HANDBOOK

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STEEL HEAT TREATMENT

METALLURGY AND TECHNOLOGIES

CRC Press One of two self-contained volumes belonging to the newly revised *Steel Heat Treatment Handbook, Second Edition*, this book examines the behavior and processes involved in modern steel heat treatment applications. *Steel Heat Treatment: Metallurgy and Technologies* presents the principles that form the basis of heat treatment processes while incorporating detailed descriptions of advances emerging since the 1997 publication of the first edition. Revised, updated, and expanded, this book ensures up-to-date and thorough discussions of how specific heat treatment processes and different alloy elements affect the structure and the classification and mechanisms of steel transformation, distortion of properties of steel alloys. The book includes entirely new chapters on heat-treated components, and the treatment of tool steels, stainless steels, and powder metallurgy steel components. *Steel Heat Treatment: Metallurgy and Technologies* provides a focused resource for everyday use by advanced students and practitioners in metallurgy, process design, heat treatment, and mechanical and materials engineering.

CARBURIZING

MICROSTRUCTURES AND PROPERTIES

ASM International

ATLAS OF ISOTHERMAL TRANSFORMATION AND COOLING TRANSFORMATION DIAGRAMS

HANDBOOK OF SEPARATION PROCESS TECHNOLOGY

John Wiley & Sons Surveys the selection, design, and operation of most of the industrially important separation processes. Discusses the underlying principles on which the processes are based, and provides illustrative examples of the use of the processes in a modern context. Features thorough treatment of newer separation processes based on membranes, adsorption, chromatography, ion exchange, and chemical complexation. Includes a review of historically important separation processes such as distillation, absorption, extraction, leaching, and crystallization and considers these techniques in light of recent developments affecting them.

CRC HANDBOOK OF METAL ETCHANTS

CRC Press This publication presents cleaning and etching solutions, their applications, and results on inorganic materials. It is a comprehensive collection of

etching and cleaning solutions in a single source. Chemical formulas are presented in one of three standard formats - general, electrolytic or ionized gas formats - to insure inclusion of all necessary operational data as shown in references that accompany each numbered formula. The book describes other applications of specific solutions, including their use on other metals or metallic compounds. Physical properties, association of natural and man-made minerals, and materials are shown in relationship to crystal structure, special processing techniques and solid state devices and assemblies fabricated. This publication also presents a number of organic materials which are widely used in handling and general processing...waxes, plastics, and lacquers for example. It is useful to individuals involved in study, development, and processing of metals and metallic compounds. It is invaluable for readers from the college level to industrial R & D and full-scale device fabrication, testing and sales. Scientific disciplines, work areas and individuals with great interest include: chemistry, physics, metallurgy, geology, solid state, ceramic and glass, research libraries, individuals dealing with chemical processing of inorganic materials, societies and schools.