

Handbook Of Corrosion Data Materials Data Series

Handbook of Corrosion Inhibitors Handbook of Corrosion Engineering Concise Metals Engineering Data Book Springer Handbook of Materials Data High-Temperature Corrosion and Materials Applications Uhlig's Corrosion Handbook Handbook of material weathering Applied Metallurgy and Corrosion Control Handbook of Corrosion Engineering, Third Edition Corrosion Guide The Handbook of Advanced Materials Corrosion Handbook, Hydrochloric Acid, Nitric Acid DECHEMA Corrosion Handbook, Chlorine Dioxide, Seawater Handbook of Materials Selection The Handbook of Advanced Materials Engineered Materials Handbook, Desk Edition ASM HANDBOOK, VOLUME 2A Metallic Materials Data Handbook Handbook of Cathodic Corrosion Protection Handbook of Corrosion Data Materials Properties Handbook Uhlig's Corrosion Handbook Corrosion Handbook, Sodium Chloride Critical Survey of Data Sources PERRY'S CHEMICAL ENGINEER'S HANDBOOK 8/E SECTION 25 MATERIALS OF CONSTRUCTION (POD) Corrosion and Materials Selection Corrosion Resistance of Aluminum and Magnesium Alloys Handbook of Materials Failure Analysis Materials Handbook Corrosion Atlas Corrosion Failures Handbook of Public Water Systems Engineering Materials Seawater Corrosion Handbook Handbook of Environmental Degradation of Materials Corrosion in the Petrochemical Industry CRC Materials Science and Engineering Handbook Corrosion Engineering Handbook, Second Edition - 3 Volume Set Stress-corrosion Cracking Corrosion Handbook, Sodium Hydroxide, Mixed Acids

Handbook of Corrosion Inhibitors

The petroleum and chemical industries contain a wide variety of corrosive environments, many of which are unique to these industries. Oil and gas production operations consume a tremendous amount of iron and steel pipe, tubing, pumps, valves, and sucker rods. Metallic corrosion is costly. However, the cost of corrosion is not just financial. Beyond the huge direct outlay of funds to repair or replace corroded structures are the indirect costs - natural resources, potential hazards, and lost opportunity. Wasting natural resources is a direct contradiction to the growing need for sustainable development. By selecting the correct material and applying proper corrosion protection methods, these costs can be reduced, or even eliminated. This book provides a minimum design requirement for consideration when designing systems in order to prevent or control corrosion damage safely and economically, and addresses:

- Corrosion problems in petroleum and chemical industries
- Requirements for corrosion control
- Chemical control of corrosive environments
- Corrosion inhibitors in refineries and petrochemical plants
- Materials selection and service life of materials
- Surface preparation, protection and maintainability
- Corrosion monitoring - plant inspection techniques and laboratory corrosion testing techniques

Intended for engineers and industry personnel working in the petroleum and chemical industries, this book is also a valuable resource for research and development teams, safety engineers, corrosion specialists and researchers in chemical engineering, engineering and materials science.

Handbook of Corrosion Engineering

This book serves as a comprehensive resource on metals and materials selection for the petrochemical industrial sector. The petrochemical industry involves large scale investments, and to maintain profitability the plants are to be operated with minimum downtime and failure of equipment, which can also cause safety hazards. To achieve this objective proper selection of materials, corrosion control, and good engineering practices must be followed in both the design and the operation of plants. Engineers and professional of different disciplines involved in these activities are required to have some basic understanding of metallurgy and corrosion. This book is written with the objective of servings as a one-stop shop for these engineering professionals. The book first covers different metallic materials and their properties, metal forming processes, welding, and corrosion and corrosion control measures. This is followed by considerations in material selection and corrosion control in three major industrial sectors, oil & gas production, oil refinery, and fertilizers. The importance of pressure vessel codes as well as inspection and maintenance repair practices have also been highlighted. The book will be useful for technicians and entry level engineers in these industrial sectors. Additionally, the book may also be used as primary or secondary reading for graduate and professional coursework.

Concise Metals Engineering Data Book

Corrosion Guide presents a list of corrosive agents and the trade names of materials, including metallic and non-metallic materials as well as alloys. The book provides guidance in using the tabulated information. This reference also lists relevant publications that deal with the properties of various materials. This new edition provides more data that are not included in the previous edition. The former edition fails to present enough information as the provided properties of the corrosive agents varies and other data are not available. The release aims to minimize missing information about the subject matter. This compilation of tabulated data provides description of each group of corrosive agents. Elements and compounds under each group are listed, along with their properties such as room temperature, corrosion rate, and composition. The list of trade names of materials also describes the composition of each material. The information contained in this book is intended to help practicing engineers deal with corrosion.

Springer Handbook of Materials Data

"The purpose of this book is to provide those involved with corrosion of metals and alloys a starting point to quickly and easily assess the recent literature on metals in corrosive environments." -- from Preface.

High-Temperature Corrosion and Materials Applications

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

Uhlig's Corrosion Handbook

This reference describes almost 3800 trade name and generic chemicals used to prevent and remove corrosion and rust. Coverage includes chemicals that function as: Acid inhibitors; Antideposition aids; Corrosion inhibitors; Corrosion and rust intermediates; Dispersants; Film-formers Rust inhibitors; Rust removers; Neutralizers; Metal deactivators; Oxygen scavengers; pH adjusters; Phosphatizers Protectants; Scale inhibitors; Water repellents In these Application Areas: Boiler water systems; Cement/Concrete; Consumer packaging; Cooling water systems; Dry cleaning processes Ferrous/Nonferrous metals; Food processing; Fuel additives Industrial/Consumer equipment; Lubricating systems Metalworking fluids; Oil field applications; Paints/Coatings Pigments Pulp/Paper processing; Wastewater treatment.

Handbook of material weathering

Covering corrosion data and the chemical resistance of all technically important metallic, non-metallic, inorganic and

organic materials in contact with aggressive media, this text provides a comprehensive collection of knowledge which is unique in both scope as well as content.

Applied Metallurgy and Corrosion Control

Public water systems deliver high-quality water to the public. They also present a vast array of problems, from pollution monitoring and control to the fundamentals of hydraulics and pipe fitting.

Handbook of Corrosion Engineering, Third Edition

The DECHEMA Corrosion Handbook provides a comprehensive collection of knowledge which is unique both in scope as well as content. Corrosion data and the chemical resistance of all technically important metallic, non-metallic, inorganic and organic materials in contact with aggressive media are covered, constituting the prime information source worldwide for the selection of materials for equipment in which corrosive media are handled or processed. Furthermore, methods of corrosion protection and prevention are also described. Faced with the task of optimizing a given environment-material system, the user of this work will find answers to the following questions: Is there information available on the behavior of the material under consideration in a particular medium? Which materials are out of question for the proposed purpose? Which materials can be used without hesitation in the medium concerned? What are the conditions under which a less resistant, less costly material will give satisfactory service? Which material offers best performance for value under the given circumstances? What protective measures exist: inhibitors, coatings, cathodic protection, etc.? This second volume covers the influence of hydrochloric acid on some 900 materials and the effect of nitric acids on some 750. Unrivaled in the research and evaluation of the international pertinent literature, more than 1400 references to primary sources, 230 figures and 300 tables arranged by agents/environment represent the most detailed corrosion data available.

Corrosion Guide

The Handbook of Advanced Materials

The fifth edition of this seminal work provides comprehensive and current information on material weathering for over forty families of polymers. It presents discussions on formulating mechanisms of degradation, effect of thermal processes, present characteristic changes in properties, and tables of available numerical data. This single source reference will dramatically reduce the time used searching for answers in many different sources. This book is an important reference

monograph for those involved in studying material durability, producing materials for outdoor use and actinic exposure, research chemists in the photochemistry field, chemists and material scientists designing new materials, users of manufactured products, those who control the quality of manufactured products, and students who want to apply their knowledge to real materials.

Corrosion Handbook, Hydrochloric Acid, Nitric Acid

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.

DECHEMA Corrosion Handbook, Chlorine Dioxide, Seawater

A comprehensive collection of peer-reviewed data and information on corrosion in the petroleum, petrochemical, and chemical processing industries from a number of ASM International publications. The principal sources are Corrosion, Volume 13, and Failure Analysis and Prevention, Volume 11 of ASM H

Handbook of Materials Selection

A comprehensive survey of the properties and selection of the major engineering materials. Revised to reflect current technology and applications, it features a discussion of engineering materials systems, coverage of plastics, ceramics and plating, the use of databases and environmental concerns.

The Handbook of Advanced Materials

George Lai's 1990 book, High-Temperature Corrosion of Engineering Alloys, is recognized as authoritative and is frequently consulted and often cited by those in the industry. His new book, almost double in size with seven more chapters, addresses the new concerns, new technologies, and new materials available for those engaged in high-temperature applications. As we strive for energy efficiency, the realm of high-temperature environments is expanding and the need for information on high temperature materials applications was never greater. In addition to extensive expansion on most of

the content of the original book, new topics include erosion and erosion-corrosion, low NO_x combustion in coal-fired boilers, fluidized bed combustion, and the special demands of waste-to-energy boilers, waste incinerators, and black liquor recovery boilers in the pulp and paper industry. The corrosion induced by liquid metals is discussed and protection options are presented.

Engineered Materials Handbook, Desk Edition

ASM HANDBOOK, VOLUME 2A

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. The most complete corrosion control reference on the market—thoroughly revised for the latest advances This fully updated guide offers complete coverage of the latest corrosion-resistant materials, methods, and technologies. Written by a recognized expert on the subject, the book covers all aspects of corrosion damage, including detection, monitoring, prevention, and control. You will learn how to select materials and resolve design issues where corrosion is a factor. Handbook of Corrosion Engineering, Third Edition shows, step by step, how to understand, predict, evaluate, mitigate, and correct corrosion problems. This edition provides a new focus on the management of corrosion problems and draws on methodologies and examples from the 2016 IMPACT report. A new chapter discusses corrosion management across governments and industries. Coverage includes:

- The functions and roles of a corrosion engineer
- Atmospheric corrosion and mapping atmospheric corrosivity
- Corrosion in waste water treatment and in water and soils
- Corrosion of reinforced concrete
- Microbes and biofouling
- High-temperature corrosion
- Modeling corrosion processes and life prediction
- Corrosion failures
- Corrosion maintenance through inspection and monitoring
- Corrosion management across governments and industries
- Selection and design considerations for engineering materials
- Protective coatings and corrosion inhibitors
- Cathodic and anodic protection

Metallic Materials Data Handbook

Nothing stays the same for ever. The environmental degradation and corrosion of materials is inevitable and affects most aspects of life. In industrial settings, this inescapable fact has very significant financial, safety and environmental implications. The Handbook of Environmental Degradation of Materials explains how to measure, analyse, and control environmental degradation for a wide range of industrial materials including metals, polymers, ceramics, concrete, wood and textiles exposed to environmental factors such as weather, seawater, and fire. Divided into sections which deal with analysis, types of degradation, protection and surface engineering respectively, the reader is introduced to the wide variety

of environmental effects and what can be done to control them. The expert contributors to this book provide a wealth of insider knowledge and engineering knowhow, complementing their explanations and advice with Case Studies from areas such as pipelines, tankers, packaging and chemical processing equipment ensures that the reader understands the practical measures that can be put in place to save money, lives and the environment. The Handbook's broad scope introduces the reader to the effects of environmental degradation on a wide range of materials, including metals, plastics, concrete, wood and textiles For each type of material, the book describes the kind of degradation that effects it and how best to protect it Case Studies show how organizations from small consulting firms to corporate giants design and manufacture products that are more resistant to environmental effects

Handbook of Cathodic Corrosion Protection

Handbook of Corrosion Data

This book, the first of its kind, provides practical case studies of corrosion-induced failures that have occurred in process equipment in the engineering/ process industries in the recent past, along with the authors' analysis. Chapters deal with Basics of Corrosion, Importance of Failure Analysis, and Standard Methodology of Failure Analysis before presenting the case studies. Satisfying the needs of practicing engineers, this book helps companies save money and increase profits by avoiding process equipment downtime due to major failures.

Materials Properties Handbook

Valuable information on corrosion fundamentals and applications of aluminum and magnesium Aluminum and magnesium alloys are receiving increased attention due to their light weight, abundance, and resistance to corrosion. In particular, when used in automobile manufacturing, these alloys promise reduced car weights, lower fuel consumption, and resulting environmental benefits. Meeting the need for a single source on this subject, Corrosion Resistance of Aluminum and Magnesium Alloys gives scientists, engineers, and students a one-stop reference for understanding both the corrosion fundamentals and applications relevant to these important light metals. Written by a world leader in the field, the text considers corrosion phenomena for the two metals in a systematic and parallel fashion. The coverage includes: The essentials of corrosion for aqueous, high temperature corrosion, and active-passive behavior of aluminum and magnesium alloys The performance and corrosion forms of aluminum alloys The performance and corrosion forms of magnesium alloys Corrosion prevention methods such as coatings for aluminum and magnesium Electrochemical methods of corrosion investigation and their application to aluminum and magnesium alloys Offering case studies and detailed references,

Corrosion Resistance of Aluminum and Magnesium Alloys provides an essential, up-to-date resource for graduate-level study, as well as a working reference for professionals using aluminum, magnesium, and their alloys.

Uhlig's Corrosion Handbook

1. Each volume of the series informs about the corrosion characteristics of materials, both important and frequently used. 2. Possibilities for the prevention and cure of corrosion are described. 3. The series provides extensive and up-to-date information on the subject of corrosion. 4. The volumes are conceived for practical use; numerous tables and illustrations provide a lot of data, each chapter is heavily referenced. 5. Each chapter is systematically organized; hence the reader can find the information he is looking for easily and quickly

Corrosion Handbook, Sodium Chloride

This book serves as a reference for engineers, scientists, and students concerned with the use of materials in applications where reliability and resistance to corrosion are important. It updates the coverage of its predecessor, including coverage of: corrosion rates of steel in major river systems and atmospheric corrosion rates, the corrosion behavior of materials such as weathering steels and newer stainless alloys, and the corrosion behavior and engineering approaches to corrosion control for nonmetallic materials. New chapters include: high-temperature oxidation of metals and alloys, nanomaterials, and dental materials, anodic protection. Also featured are chapters dealing with standards for corrosion testing, microbiological corrosion, and electrochemical noise.

Critical Survey of Data Sources

Offers information on all types of corrosion, corrosion theory and the major materials of construction used for reducing corrosion, including metals, plastics, linings, coatings, elastomers and masonry products. The text provides analyses of corrosion testing techniques, materials handling and fabrication procedures, on-stream and off-stream corrosion monitoring, design methods that prevent or control corrosion, and more.

PERRY'S CHEMICAL ENGINEER'S HANDBOOK 8/E SECTION 25 MATERIALS OF CONSTRUCTN (POD)

The DECHEMA Corrosion Handbook provides a comprehensive collection of knowledge which is unique both in scope as well as content. Corrosion data and the chemical resistance of all technically important metallic, non-metallic, inorganic and organic materials in contact with aggressive media are covered, constituting the prime information source worldwide for the

selection of materials for equipment in which corrosive media are handled or processed. Furthermore, methods of corrosion protection and prevention are also described. Faced with the task of optimizing a given environment-material system, the user of this work will find answers to the following questions: Is there information available on the behavior of the material under consideration in a particular medium? Which materials are out of question for the proposed purpose? Which materials can be used without hesitation in the medium concerned? What are the conditions under which a less resistant, less costly material will give satisfactory service? Which material offers best performance for value under the given circumstances? What protective measures exist: inhibitors, coatings, cathodic protection, etc.? The influence of sodium hydroxide on some 450 materials and the effect of mixed acids on some 700 constitute the contents of this first volume. Unrivaled in the research and evaluation of the international pertinent literature, more than 600 references to primary sources, 200 figures and 250 tables arranged by agents/environment represent the most detailed corrosion data available.

Corrosion and Materials Selection

Now in its eighth edition, Perry's Chemical Engineers' Handbook offers unrivaled, up-to-date coverage of all aspects of chemical engineering. For the first time, individual sections are available for purchase. Now you can receive only the content you need for a fraction of the price of the entire volume. Streamline your research, pinpoint specialized information, and save money by ordering single sections of this definitive chemical engineering reference today. First published in 1934, Perry's Chemical Engineers' Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data. Now updated to reflect the latest technology and processes of the new millennium, the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering—from fundamental principles to chemical processes and equipment to new computer applications. Filled with over 700 detailed illustrations, the Eighth Edition of Perry's Chemical Engineers' Handbook features: *Comprehensive tables and charts for unit conversion *A greatly expanded section on physical and chemical data *New to this edition: the latest advances in distillation, liquid-liquid extraction, reactor modeling, biological processes, biochemical and membrane separation processes, and chemical plant safety practices with accident case histories

Corrosion Resistance of Aluminum and Magnesium Alloys

CRC Materials Science and Engineering Handbook provides a convenient, single-volume source for physical and chemical property data on a wide range of engineering materials. As with the first three editions, this Fourth Edition contains information verified by major professional associations such as ASM International and the American Ceramic Society

Handbook of Materials Failure Analysis

Handbook of Materials Failure Analysis: With Case Studies from the Construction Industry provides a thorough understanding of the reasons materials fail in certain situations, covering important scenarios including material defects, mechanical failure due to various causes, and improper material selection and/or corrosive environment. The book begins with a general overview of materials failure analysis and its importance, and then logically proceeds from a discussion of the failure analysis process, types of failure analysis, and specific tools and techniques, to chapters on analysis of materials failure from various causes. Failure can occur for several reasons, including: materials defects-related failure, materials design-related failure, or corrosion-related failures. The suitability of the materials to work in a definite environment is an important issue. The results of these failures can be catastrophic in the worst case scenarios, causing loss of life. This important reference covers the most common types of materials failure, and provides possible solutions. Provides the most up-to-date and balanced coverage of failure analysis, combining foundational knowledge and current research on the latest developments and innovations in the field Offers an ideal accompaniment for those interested in materials forensic investigation, failure of materials, static failure analysis, dynamic failure analysis, and fatigue life prediction Presents compelling new case studies from key industries to demonstrate concepts and to assist users in avoiding costly errors that could result in catastrophic events

Materials Handbook

Corrosion Atlas

This book serves as a reference for engineers, scientists, and students concerned with the use of materials in applications where reliability and resistance to corrosion are important. It updates the coverage of its predecessor, including coverage of: corrosion rates of steel in major river systems and atmospheric corrosion rates, the corrosion behavior of materials such as weathering steels and newer stainless alloys, and the corrosion behavior and engineering approaches to corrosion control for nonmetallic materials. New chapters include: high-temperature oxidation of metals and alloys, nanomaterials, and dental materials, anodic protection. Also featured are chapters dealing with standards for corrosion testing, microbiological corrosion, and electrochemical noise.

Corrosion Failures

Handbook of Public Water Systems

Written to educate readers about recent advances in the area of new materials used in making products. Materials and their properties usually limit the component designer. * Presents information about all of these advanced materials that enable products to be designed in a new way * Provides a cost effective way for the design engineer to become acquainted with new materials * The material expert benefits by being aware of the latest development in all these areas so he/she can focus on further improvements

Engineering Materials

An innovative resource for materials properties, their evaluation, and industrial applications The Handbook of Materials Selection provides information and insight that can be employed in any discipline or industry to exploit the full range of materials in use today—metals, plastics, ceramics, and composites. This comprehensive organization of the materials selection process includes analytical approaches to materials selection and extensive information about materials available in the marketplace, sources of properties data, procurement and data management, properties testing procedures and equipment, analysis of failure modes, manufacturing processes and assembly techniques, and applications. Throughout the handbook, an international roster of contributors with a broad range of experience conveys practical knowledge about materials and illustrates in detail how they are used in a wide variety of industries. With more than 100 photographs of equipment and applications, as well as hundreds of graphs, charts, and tables, the Handbook of Materials Selection is a valuable reference for practicing engineers and designers, procurement and data managers, as well as teachers and students.

Seawater Corrosion Handbook

This comprehensive handbook covers all aspects of cathodic protection in terms of both practice and theory.

Handbook of Environmental Degradation of Materials

Reduce the enormous economic and environmental impact of corrosion Emphasizing quantitative techniques, this guide provides you with: * Theory essential for understanding aqueous, atmospheric, and high temperature corrosion processes Corrosion resistance data for various materials Management techniques for dealing with corrosion control, including life prediction and cost analysis, information systems, and knowledge re-use Techniques for the detection, analysis, and prevention of corrosion damage, including protective coatings and cathodic protection More

Corrosion in the Petrochemical Industry

Written to educate readers about recent advances in the area of new materials used in making products. Materials and their properties usually limit the component designer. * Presents information about all of these advanced materials that enable products to be designed in a new way * Provides a cost effective way for the design engineer to become acquainted with new materials * The material expert benefits by being aware of the latest development in all these areas so he/she can focus on further improvements

CRC Materials Science and Engineering Handbook

Corrosion Atlas: A Collection of Illustrated Case Studies, Third Edition includes 679 case histories divided over 135 materials in 13 material groups, 25 systems (installations) and 44 different phenomena. It is an essential reference work on the design, fabrication, operation and maintenance of the extremely varied and often very complicated systems and machinery used in today's technology. Case histories, with cross-references and indexes, make this book a critical resource in the solution of many corrosion problems. In addition, it brings team members closer by presenting a common language for all parties. Finally, the book serves as an important educational aid for self-study. Because of its unique, extensive, clear and beautifully produced material, the book presents a much closer link between education and the practice of corrosion prevention and control. Presents real life problems and describes materials, systems, parts, types, environments, causes and remedies Helps improve accuracy and speed of corrosion analyses Includes Information that is systematically organized for speedy look-up and ease of use Provides superb quality of visual information that gives the clues vital for analyzing problems

Corrosion Engineering Handbook, Second Edition - 3 Volume Set

Contents include: Complete coverage of SCC for a variety of materials and SCC in different environments: carbon and low-alloy steels high-strength steels stainless steels nickel-base alloys copper alloys aluminum alloys magnesium alloys titanium alloys zirconium alloys uranium alloys amorphous alloys glasses and ceramics weldments in boiling water reactor service.

Stress-corrosion Cracking

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

Corrosion Handbook, Sodium Hydroxide, Mixed Acids

The second edition of this well-received handbook is the most concise yet comprehensive compilation of materials data. The chapters provide succinct descriptions and summarize essential and reliable data for various types of materials. The information is amply illustrated with 900 tables and 1050 figures selected primarily from well-established data collections, such as Landolt-Börnstein, which is now part of the SpringerMaterials database. The new edition of the Springer Handbook of Materials Data starts by presenting the latest CODATA recommended values of the fundamental physical constants and provides comprehensive tables of the physical and physicochemical properties of the elements. 25 chapters collect and summarize the most frequently used data and relationships for numerous metals, nonmetallic materials, functional materials and selected special structures such as liquid crystals and nanostructured materials. Along with careful updates to the content and the inclusion of timely and extensive references, this second edition includes new chapters on polymers, materials for solid catalysts and low-dimensional semiconductors. This handbook is an authoritative reference resource for engineers, scientists and students engaged in the vast field of materials science.

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