Monolithic Refractories A Comprehensive Handbook

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Monolithic Refractories Subrata Banerjee 1998-09-02 In this valuable handbook, various monolithic refractories currently in use are described in detail, with particular attention paid to their chemical and physical behaviors during manufacturing, installation, and the duty cycle. Critical aspects of reactions involved within the refractory body as it approaches the used temperature within the processing environment are addressed from the practitioner's point of view. To ensure optimum performance, the application, installation, and design of refractory components are described in detail. In short, the book contains a comprehensive discussion on monolithic refractories concerning their formulation, manufacture, and use. The information is most current, with suitable tables and figures. Also, historical perspectives on the evolution of the refractory industry are provided. This book is primarily designed to serve as a handbook for practicing ceramic engineers, scientists, raw material suppliers, and research and development personnel in the refractory manufacturing industry and industries associated with high temperature material processing. It may also be used in courses for ceramic engineering students specializing in refractories. Contents: Raw MaterialsCastable RefractoriesPumpable CastablesPlastic RefractoriesRamming MixesGunning MixesMortarsCoatingsDry VibratablesWear MechanismsManufacturingApplication DesignsEvaluation and TestsLining Readership: Professionals dealing with refractories — raw material suppliers, manufacturers and users. keywords:Alumina;Silica;Mullite;Colloidal Silica;Trough;Tundish;Castable;Pumpable;Ramming Mix;Gunning Mix
Industrial Ceramics 2001
Ceramic Source 2003
Japan Company Handbook 1990
Smart Nanoconcretes and Cement-Based Materials Mohd Shahir Liew 2019-11-16 Smart Nanoconcretes and Cement-Based Materials: Properties, Modelling and Applications explores the fundamental concepts and applications of smart nanoconcretes with self-healing, self-cleaning, photocatalytic, antibacterial, piezoelectrical, heating and conducting properties and how they are used in modern high-rise buildings, hydraulic engineering, highways, tunnels and bridges. This book is an important reference source for materials scientists and civil engineers who are looking to enhance the properties of smart nanomaterials to create stronger, more durable concrete. Explores the mechanisms through which active agents are released from nanocontainers inside concrete Shows how embedded smart nanosensors, including carbon cement-based smart sensors and micro/nano strain-sensors, are used to increase concrete performance Discusses the major challenges of integrating smart nanomaterials into concrete composites
Forthcoming Books Rose Arny 1997
Feuerfeste Werkstoffe Gerald Routschka 2007
TMS 2021 150th Annual Meeting & Exhibition Supplemental Proceedings The Minerals, Metals & Materials Society 2021-02-23 This collection presents papers from the 150th Annual Meeting & Exhibition of The Minerals, Metals & Materials Society.
Proceedings of the Unified International Technical Conference on Refractories (UNITECR 2013) Dana Goski 2014-02-10 Proceedings containing 231 manuscripts that were submitted and approved for the 13th biennial worldwide refractories congress recognized as the Unified International Technical Conference on Refractories(UNITECR), held September 10-13, 2013.
Metal Progress 1970
Foundry Management & Technology 1969
Advanced Materials Forum V Luís Guerra Rosa 2010-01-12 This collection comprises 232 peer-reviewed papers, grouped into chapters according to materials-type, applications, characterization or simulation: Chapter 1: biomaterials and integration of materials into biological systems (14 papers); Chapter 2: ceramics (12 papers); Chapter 3: composite materials (18 papers); Chapter 4: electronic, magnetic and photonic materials (25 papers); Chapter 5: metals and alloys (31 papers); Chapter 6: nanoscaled materials (11 papers); Chapter 7: polymers (17 papers); Chapter 8: materials for energy production, transport and storage (9 papers); Chapter 9: powder materials and powder technology processes (7 papers); Chapter 10: surface modification, thin films, coatings, and corrosion (22 papers); Chapter 11: simulation and modelling of materials and structures (16 papers); Chapter 12: aggregate, petrous and cementitious materials (22 papers); Chapter 13: recycling, eco-friendly materials and processes (12 papers); Chapter 14: fracture, fatigue, creep and wear (12 papers); Chapter 15: sensors and inspection techniques (4 papers).
2nd International Conference on Refractories 1987
Synfuels Handbook 1980
American Book Publishing Record 1998
Refractory Materials Gerald Routschka 2008 The book provides, in a compact format, basic knowledge and practically oriented information on specific properties of refractory materials, on their testing and inspection, and on interpretation of test results. Tables and illustrations are used to clarify fundamental concepts on a comparative basis. This pocket format manual provides an overview of the diverse range of modern refractories and their application-relevant properties. Its main feature is a series of practice-derived articles by well-known authors in the field on the various material groups and their characteristic property data. The content has deliberately been kept concise and instructive, abstracting and more detailed works are referenced.
Industrial Heating 1970
Technical Book Review Index 1986
Refractory Technology Ritwik Sarkar 2016-11-03 This book provides a basic understanding of refractories. This includes the fundamentals of refractory technology supported by phase diagrams as well as detailing the prominent applications of these essential industrial materials. This book covers all the facets of refractory technology, starting from classification, properties, standard specifications, details of the conventional shaped refractories, including relevant phase diagrams & application areas and also the details of unshaped refractories including various classifications, bonding, additives and their applications.
ISIJ International 2003
Materials Handbook François Cardarelli 2018-07-09 The unique and practical Materials Handbook (third edition) provides quick and easy access to the physical and chemical properties of very many classes of materials. Its coverage has been expanded to include whole new families of materials such as minor metals, ferroalloys, nuclear materials, food, natural oils, fats, resins, and waxes. Many of the existing families—notably the metals, gases, liquids, minerals, rocks, soils, polymers, and fuels—are broadened and refined with new material and up-to-date information. Several of the larger tables of data are expanded and new ones added. Particular emphasis is placed on the properties of common industrial materials in each class. After a chapter introducing some general properties of materials, each of twenty-four classes of materials receives attention in its own chapter. The health and safety issues connected with the use and handling of industrial materials are included. Detailed appendices provide additional information on subjects as diverse as crystallography, spectroscopy, thermochemical data, analytical chemistry, corrosion resistance, and economic data for industrial and hazardous materials. Specific further reading sections and a general bibliography round out this comprehensive guide. The index and tabular format of the book makes light work of extracting what the reader needs to know from the wealth of factual information within these covers. Dr. François Cardarelli has spent many years compiling and editing materials data. His professional expertise and experience combine to make this handbook an indispensable reference tool for scientists and engineers working in numerous fields ranging from chemical to nuclear engineering. Particular emphasis is placed on the properties of common industrial materials in each class. After a chapter introducing some general properties of materials, materials are classified as follows. ferrous metals and their alloys; ferroalloys; common nonferrous

metals; less common metals; minor metals; semiconductors and superconductors; magnetic materials; insulators and dielectrics; miscellaneous electrical materials; ceramics, refractories and glasses; polymers and elastomers; minerals, ores and gemstones; rocks and meteorites; soils and fertilizers; construction materials; timbers and woods; fuels, propellants and explosives; composite materials; gases; liquids; food, oils, resin and waxes; nuclear materials. food materials

ASM Handbook Stephen D. Cramer 1990 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.

Information Sources in Metallic Materials M. N. Patten 2017-07-24 The aim of each volume of this series Guides to Information Sources is to reduce the time which needs to be spent on patient searching and to recommend the best starting point and sources most likely to yield the desired information. The criteria for selection provide a way into a subject to those new to the field and assists in identifying major new or possibly unexplored sources to those who already have some acquaintance with it. The series attempts to achieve evaluation through a careful selection of sources and through the comments provided on those sources.

Fluid Catalytic Cracking Handbook Reza Sadeghbeigi 2012 Process flow description. FCC Feed Characterization. FCC Catalysts. Chemistry of FCC reactions. Unit monitoring and control. Products and economics. Project management and hardware design. Troubleshooting. Emerging trends in fluidized catalytic cracking. Appendixes: Total correlations. n-d-M correlations. API correlations. ASTM to TBP conversion. Definitions of fluidization terms. Glossary. Index.

Technische Keramik Wolfgang Kollenberg 2004

Transactions of the Iron and Steel Institute of Japan Nihon Tekk? Ky?kai 1988

Handbook of Industrial Refractories Technology Stephen Caniglia 1992-12-31 Encompasses the entire range of industrial refractory materials and forms: properties and their measurement, applications, manufacturing, installation and maintenance techniques, quality assurance, and statistical process control.

ASM Handbook 2005

Aluminium Cast House Technology (Seventh Australasian Conference) Peter R. Whiteley 2013-09-12 Surface Tension Forces in Gas Pressurized VDC Casting 195 P.W. Baker and J.F. Grandfield A Total Business Cost Approach 205 Brett T. Aisen and Lachlan J. Massey Optimising Pit Recoveries on 6XXX Extrusion Billet 213 David Latter CAST HOUSE SAFETY Casthouse Safety in 2001 223 John E. Jacoby Improving Safety Performance in an Aluminium Casthouse 233 Barry Taylor CONTINUOUS CASTING An Assessment of the Design of a Gautschi Mould Using Finite Element Analysis 247 Philip Clausen and Geoff Whan Horizontal Direct Chilled (HDC) Casting Technology for Aluminium and Requirements to Metal Cleanliness 253 Franz Niedermair Aspects of Heat Transfer During Production of Remelt Ingot Using Chain Casters 263 J.F. Grandfield, T.T. Nguyen, G. Redden and J.A. Taylor Twin-Belt Casting Technology Update (abstract only) 273 W. Szczypiorski Improving Horizontal Direct Chill Casting 275 Ali A. Dawood HEAT TREATMENT Effect of Homogenisation Temperature and Time on Billet Microstructure and Extruded Properties of Alloy 6061 287 M.J. Couper, M. Cooksey and B. Rinderer Effect of Homogenization on Small Diameter Billets - An Extruder's Experience 297 Hua-Tian Tan and Callistus Hing-Chih Lee Control of Wire Rod Physical Properties Like Ultimate Tensile Strength and Elongation by Close Monitoring of Rolling Energy Input 305 S.D. Chouharia, P.S. Gambhir and M. Dash MAGNESIUM CASTING Aluminium and Magnesium: Equipment and Process Comparison 319 Paul McGlade and Nigel Ricketts RECYCLING Recycling of Contaminated Aluminium Scrap - A Responsible Approach 331 Richard J. Evans REFRACTORY Cast House Refractories - Selection & Evaluation 343 Robert C. Flann PROCESS CONTROL Advances in On-Site Alloy Analysis and Identification (abstract only) 357 Keith Watson Automation Primer for Supervisors and Operators 359 Peter R. Whiteley Author

Glass 1992

Combustion 1930

ASM Handbook ASM International. Handbook Committee 2000 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.

UNITECR '05 Jeffrey D. Smith 2006-03-03 This collection of over 200 papers from the 9th Biennial Worldwide Congress on Refractories is broad-ranging and diverse in perspective. Topics include steelmaking refractories, castable technology, global refractories education and technology and industrial applications. Numerous papers are from representatives from major international steel companies.

Refractories for the Cement Industry Prasunjit Sengupta 2019-08-26 This book provides process engineers with all of the information necessary for installation, maintenance and management of refractory in a cement industry. It describes how to characterize the refractory material and select refractories for various equipments in the cement plant. The author explains refractory installation, in general, and the rotary kiln specifically, as it is distinct from static furnaces used in metallurgical or process industries. It also details the chemical and physical factors that influence refractory performance and has discussed the mechanism of degradation of refractories with special emphasis on thermo-chemical and thermo-mechanical aspects. The heat transfer calculation and energy loss from the equipment surfaces has been addressed. A chapter in the book is dedicated for the management of refractory quality and the installation quality at the site. Maximizes reader understanding of the operating conditions in different equipments and how those are related to selection of refractories; Details the process variables and their influences on the performance of the refractories; Elucidates subtle points of refractory installation to ensure optimal performance; Presents heat transfer calculations and quality management protocols of refractory installation. Reinforces the concepts with many illustrations and tables.

Science of Whitewares II William M. Carty 2000 This book (a companion to Science of Whitewares, focuses on the pre-firing issues of raw materials, polymeric additives, characterization, processing, and forming. Provides an in-depth understanding of the raw minerals used to manufacture whitewares including minerology and characterization, followed by the systems that are the keys to improved yields in the manufacturing process.

Blast Furnace and Steel Plant 1950

The Glass Industry 1989

Transactions Indian Ceramic Society 2006

Journal of the Ceramic Society of Japan 1987

Books in Print 1991