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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 Materials Castable Refractories Pumpable Castables Plastic Refractories Ramming Mixes Gunning Mixes Mortars Coatings Dry Vibratable Wear Mechanisms Manufacturing Application Designs Evaluation and Tests Lining 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

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;

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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

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.

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.

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.

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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.

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. Szcypiorski
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

This collection presents papers from the 150th Annual Meeting & Exhibition of The Minerals, Metals & Materials Society.

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

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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).

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