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Materials Performance

Bibliography and Index of Geology

Includes monthly abstracts and annual index.

Chemical Engineering Progress

The Chemistry and Technology of
Coal, Third Edition

CRC Press The demand for coal use (for electricity generation) and coal products, particularly liquid fuels and chemical feedstocks, is increasing throughout the world. Traditional markets such as North America and Europe are experiencing a steady increase in demand whereas emerging Asian markets, such as India and China, are witnessing a rapid surge in demand for clean liquid fuels. A detailed and comprehensive overview of the chemistry and technology of coal in the twenty-first century, *The Chemistry and Technology of Coal, Third Edition* also covers the relationship of coal industry processes with environmental regulations as well as the effects of combustion products on the atmosphere. Maintaining and enhancing the clarity of presentation that made the previous editions so popular, this book: Examines the effects of combustion products on the atmosphere Details practical elements of coal evaluation procedures Clarifies misconceptions concerning the organic structure of coal Discusses

the physical, thermal, electrical, and mechanical properties of coal
Analyzes the development and current status of combustion and gasification techniques In addition to two new chapters, **Coal Use and the Environment and Coal and Energy Security**, much of the material in this edition been rewritten to incorporate the latest developments in the coal industry. Citations from review articles, patents, other books, and technical articles with substantial introductory material are incorporated into the text for further reference. **The Chemistry and Technology of Coal, Third Edition** maintains its initial premise: to introduce the science of coal, beginning with its formation in the ground to the production of a wide variety of products and petrochemical intermediates in the twenty-first century. The book will prove useful for scientists and engineers already engaged in the coal and/or catalyst manufacturing industry looking for a general overview or update on the clean coal technology as well as professional researchers and students in chemistry and engineering.

Business America

Includes articles on international business opportunities.

Hydrometallurgy '94

Papers presented at the international symposium 'Hydrometallurgy '94' organized by the Institution of Mining and Metallurgy and the Society of Chemical Industry, and held in Cambridge, England, from 11 to 15 July, 1994

Springer Science & Business Media **Hydrometallurgy '94** contains the 78 papers that were presented at the international symposium organized by the Institution of Mining and Metallurgy and the Society of Chemical Industry and held in Cambridge, England, in July 1994. In the papers specific attention is paid to the concept of sustainable development and the

associated ideas of cleaner technology, recycling and waste minimization that have particular relevance to the extraction and processing of metals and other mineral products. The papers, by authors from 30 countries, are grouped under the headings: Hydrometallurgy and Sustainable Development; Materials Production and the Environment; Fundamentals; Leaching; Bioprocessing; Gold Solution Purification; Effluent Treatment; Processes; and Recycling.

Fluid Mixing IV

CRC Press

Minerals Yearbook

Index of Conference Proceedings Received

Lees' Loss Prevention in the Process Industries

Hazard Identification, Assessment and Control

Butterworth-Heinemann **Safety in the process industries is critical for those who work with chemicals and hazardous substances or processes. The field of loss prevention is, and continues to be, of supreme importance to countless companies, municipalities and governments around the world, and Lees' is a detailed reference to defending against hazards. Recognized as the standard work for chemical and process engineering safety professionals, it provides the most complete collection of information on the theory, practice, design elements, equipment, regulations and laws covering the field of process safety. An entire library of alternative books (and cross-referencing systems) would be needed to replace or improve upon it, but everything of importance to safety professionals, engineers and managers can be found in this all-encompassing three volume reference instead. The process safety encyclopedia, trusted worldwide for over 30 years Now available in print and online, to aid searchability and portability Over 3,600 print pages cover the full scope of process safety and loss prevention, compiling theory, practice, standards, legislation, case studies and lessons learned in one resource as opposed to multiple**

sources

Proceedings in Print

Treatise on Process Metallurgy, Volume 3: Industrial Processes

Newnes Process metallurgy provides academics with the fundamentals of the manufacturing of metallic materials, from raw materials into finished parts or products. Coverage is divided into three volumes, entitled Process Fundamentals, encompassing process fundamentals, extractive and refining processes, and metallurgical process phenomena; Processing Phenomena, encompassing ferrous processing; non-ferrous processing; and refractory, reactive and aqueous processing of metals; and Industrial Processes, encompassing process modeling and computational tools, energy optimization, environmental aspects and industrial design. The work distils 400+ years combined academic experience from the principal editor and multidisciplinary 14-member editorial advisory board, providing the 2,608-page work with a seal of quality. The volumes will function as the process counterpart to Robert Cahn and Peter Haasen's famous reference family, Physical Metallurgy (1996)--which excluded process metallurgy from consideration and which is currently undergoing a major revision under the editorship of David Laughlin and Kazuhiro Hono (publishing 2014). Nevertheless, process and extractive metallurgy are fields within their own right, and this work will be of interest to libraries supporting courses in the process area. Synthesizes the most pertinent contemporary developments within process metallurgy so scientists have authoritative information at their fingertips Replaces existing articles and monographs with a single complete solution, saving time for busy scientists Helps metallurgists to predict changes and consequences and create or modify whatever process is deployed

Thermal Analysis

Vol 1 Theory Instrumentation Applied Sciences Industrial Applications

Springer-Verlag

New Scientist

New Scientist magazine was launched in 1956 "for all those men and women who are interested in scientific discovery, and in its industrial, commercial and social consequences". The brand's mission is no different today - for its consumers, New Scientist reports, explores and interprets the results of human endeavour set in the context of society and culture.

The Extraction and Refining of Metals

Routledge The Extraction and Refining of Metals provides a novel approach to the science and technology of both ferrous and non-ferrous metal production. Rather than the traditional treatment in which one metal at a time is considered, this new approach, which examines several metals at a time, reveals more clearly the versatility and limitations of each of the main types of process. The restrictions imposed on the selection of the process routes by thermodynamic and kinetic factors and by economic and environmental constraints are examined in detail. The conservation of energy and materials is emphasized and illustrated by the description of new and improved extraction methods. The types of mathematical models that are being developed for computer control of production operations are indicated, and worked examples demonstrate relevant thermodynamic and mass balance calculations.

Resources in Education

International Aerospace Abstracts

Handbook of Non-Ferrous Metal Powders

Technologies and Applications

Elsevier The manufacture and use of the powders of non-ferrous metals has been taking place for many years in what was previously Soviet Russia, and a huge amount of knowledge and experience has built up in that country over the last forty years or so. Although accounts of the topic have been published in the Russian language, no English language account has existed until now. Six prominent academics and industrialists from the

Ukraine and Russia have produced this highly-detailed account which covers the classification, manufacturing methods, treatment and properties of the non-ferrous metals (aluminium, titanium, magnesium, copper, nickel, cobalt, zinc, cadmium, lead, tin, bismuth, noble metals and earth metals). The result is a formidable reference source for those in all aspects of the metal powder industry. * Covers the manufacturing methods, properties and importance of the following metals: aluminium, titanium, magnesium, copper, nickel, cobalt, zinc, cadmium, noble metals, rare earth metals, lead, tin and bismuth. * Expert Russian team of authors, all very experienced * English translation and update of book previously published in Russian.

Chemical Metallurgy Principles and Practice

John Wiley & Sons Chemical metallurgy is a well founded and fascinating branch of the wide field of metallurgy. This book provides detailed information on both the first steps of separation of desirable minerals and the subsequent mineral processing operations. The complex chemical processes of extracting various elements through hydrometallurgical, pyrometallurgical or electrometallurgical operations are explained. In the choice of material for this work, the author made good use of the synergy of scientific principles and industrial practices, offering the much needed and hitherto unavailable combination of detailed treatises on both compiled in one book.

Exergy Analysis of Thermal, Chemical, and Metallurgical Processes

Hemisphere Pub

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.

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Disposal

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Accessions of Unlimited Distribution
Reports

Canadian Metallurgical Quarterly
DOE this Month

The Cumulative Book Index

A world list of books in the English language.

National Union Catalog

Includes entries for maps and atlases.

Current Awareness in Particle Technology