

Bulk Density Averages Key Technology

Renewable Energy Sources: Engineering, Technology, Innovation
 Synopses of Federal Demonstrations of Innovative Site Remediation Technologies
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 Age Of Fire Is Over, The: A New Approach To The Energy Transition
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 Essential Readings in Light Metals, Volume 2, Aluminum Reduction Technology
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 Chemical Reaction Engineering and Reactor Technology, Second Edition
 General Technical Report NC.
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Renewable Energy Sources: Engineering, Technology, Innovation Springer

The Light Metals symposia are a key part of the TMS Annual Meeting & Exhibition, presenting the most recent developments, discoveries, and practices in primary aluminum science and technology. Publishing the proceedings from these important symposia, the Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies. The 2014 collection includes papers from the following symposia:
 •Alumina and Bauxite •Aluminum Alloys: Fabrication, Characterization and

Applications •Aluminum Processing
 •Aluminum Reduction Technology •Cast Shop for Aluminum Production •Electrode Technology for Aluminum Production
 •Light-metal Matrix (Nano)-composites
Synopses of Federal Demonstrations of Innovative Site Remediation Technologies
 Springer
 Over the past several years, there has been a growing integration of data – geophysical, geological, petrophysical, engineering-related, and production-related – in predicting and determining reservoir properties. As such, geoscientists now must learn the technology, processes, and challenges involved within their specific functions in order to optimize planning for oil field development. Applied Techniques to Integrated Oil and Gas Reservoir Characterization presents challenging questions encountered by geoscientists in their day-to-day work in

the exploration and development of oil and gas fields and provides potential solutions from experts. From basin analysis of conventional and unconventional reservoirs, to seismic attributes analysis, NMR for reservoir characterization, amplitude versus offset (AVO), well-to-seismic tie, seismic inversion studies, rock physics, pore pressure prediction, and 4D for reservoir monitoring, the text examines challenges in the industry as well as the techniques used to overcome those challenges. This book includes valuable contributions from global industry experts: Brian Schulte (Schiefer Reservoir Consulting), Dr. Neil W. Craigie (Saudi Aramco), Matthijs van der Molen (Shell International E&P), Dr. Fred W. Schroeder (ExxonMobil, retired), Dr. Tharwat Hassane (Schlumberger & BP, retired), and others. Presents a thorough understanding of the requirements of

various disciplines in characterizing a wide spectrum of reservoirs. Includes real-life problems and challenging questions encountered by geoscientists in their day-to-day work, along with answers from experts working in the field. Provides an integrated approach among different disciplines (geology, geophysics, petrophysics, and petroleum engineering). Offers advice from industry experts to geoscience students, including career guides and interview tips.

Scientific and Technical Aerospace Reports

Trans Tech Publications Ltd
The work of the RILEM Technical Committee (TC -236 BBM) was dedicated to the study of construction materials made from plant particles. It considered the question whether building materials containing as main raw material recyclable and easily available plant particles are renewable. This book includes a state-of-the-art report and an appendix. The state-of-the-art report relates to the description of vegetal aggregates. Then, hygrothermal properties, fire resistance, durability and finally the impact of the variability of the method of production of bio-based concrete are assessed. The appendix is a TC report which presents the experience of a working group. The goal was to define testing methods for the measurement of water absorption, bulk density, particle size distribution, and thermal conductivity of bio aggregates. The work is based on a first round robin test of the TC-BBM where the protocols in use by the different laboratories (labs) are compared. p>

Age Of Fire Is Over, The: A New Approach To The Energy Transition

Springer
The heart of the contemporary argument on climate change and energy transition focuses on how energy supply should be decarbonized to mitigate greenhouse gas emissions. This book proposes an alternative approach. The Age of Fire Is Over: A New Approach to the Energy Transition finds that energy transitions are not driven by supply-side driven transformations but rather by evolutions in demand patterns. Exploring the potential of recently emerged key technologies, The Age of Fire Is Over argues that the so-called Energy Transition has not yet started. In the future, key technologies will significantly transform demand and provide services at a fraction of today's cost or offer new services not yet imagined. To a large extent, energy paradigm shifts are driven by such evolutions, largely inevitable and often unanticipated, because they provide societies with greater benefits: lower costs, more jobs, and rapid adaptation. This book closes with key novel

recommendations for government institutions to accelerate the energy transition, which — instead of replicating an approach from the past — should focus on these demand transformations to both advance civilization and mitigate climate change. With Foreword by Jean-Pascal Tricoire, Schneider Electric Chief Executive Officer.

Management of Solid Wastes in Developing Countries Springer Nature
Essential Readings in Light Metals, Volume 2, Aluminum Reduction
TechnologySpringer

Energy Research Abstracts

John Wiley & Sons
This volume comprises the select proceedings of FiMPART 2015. The volume covers advances in major areas of materials research under one umbrella. This volume covers all aspects of materials research, processing, fabrication, structure/property evaluation, applications of ferrous, non-ferrous, ceramic, polymeric materials and composites including biomaterials, materials for energy, fuel cells/hydrogen storage technologies, batteries, super-capacitors, nano-materials for energy and structural applications, aerospace structural metallic materials, bulk metallic glasses and other advanced materials. The book will be useful to researchers, students, and professional working in areas related to materials innovation and applications.

Frontiers in Materials Processing, Applications, Research and Technology
World Scientific

Selected, peer-reviewed papers from the 4th National Conference on Wind and Earthquake Engineering (4th NCWE), October 16-17, 2020, Gambang, Malasia

International Conference on Water Resource and Environmental Protection

Springer
This book presents peer-reviewed papers based on the oral and poster presentations during the 5th International Conference on Renewable Energy Sources, which was held from June 20 to 22, 2018 in Krynica, Poland. The scope of the conference included a wide range of topics in renewable energy technology, with a major focus on biomass, solar energy and geothermal energy, but also extending to heat pumps, fuel cells, wind energy, energy storage, and the modelling and optimization of renewable energy systems. This edition of the conference had a special focus on the role of renewable energy in the reduction of air pollution in the Eastern European region. Traditionally this conference is a unique occasion for gathering Polish and international researchers' perspectives on renewable

energy sources, and furthermore of balancing them against governmental policy considerations. Accordingly, the conference offered also panels to discuss best practices and solutions with local entrepreneurs and federal government bodies. The meeting attracts not only scientist but also industry representatives as well as local and federal government personnel. In 2018, the conference was organized by the University of Agriculture in Krakow in cooperation with AGH University of Science and Technology (Krakow), University of Žilina, Silesian University of Technology, International Commission of Agricultural and Biosystems Engineering (CIGR) and Polish Society of Agricultural Engineering. Honorary auspices were given by the Ministry of Science and Higher Education Republic of Poland, Rector of the University of Agriculture in Krakow and Rector of the AGH University of Science and Technology.

Light Metals 2014

Elsevier
ONE OF A FOUR-BOOK COLLECTION
SPOTLIGHTING CLASSIC ARTICLES

Landmark research findings and reviews in aluminum reduction technology
Highlighting some of the most important findings and insights reported over the past five decades, this volume features many of the best original research papers and reviews on aluminum reduction technology published from 1963 to 2011. Papers have been organized into seven themes: 1. Fundamentals 2. Modeling 3. Design 4. Operations 5. Control 6. Environmental 7. Alternative processes
The first six themes deal with conventional Hall-Héroult electrolytic reduction technology, whereas the last theme features papers dedicated to nonconventional processes. Each section begins with a brief introduction and ends with a list of recommended articles for further reading, enabling researchers to explore each subject in greater depth. The papers for this volume were selected from among some 1,500 Light Metals articles. Selection was based on a rigorous review process. Among the papers, readers will find breakthroughs in science as well as papers that have had a major impact on technology. In addition, there are expert reviews summarizing our understanding of key topics at the time of publication. From basic research to advanced applications, the articles published in this volume collectively represent a complete overview of aluminum reduction technology. It will enable students, scientists, and engineers to trace the history of aluminum reduction technology and bring themselves up to date with the current state of the

technology.

Key to the Native Perennial Grasses

DEStech Publications, Inc

The two-volume set IFIP AICT 392 and 393 constitutes the refereed post-conference proceedings of the 6th IFIP TC 5, SIG 5.1 International Conference on Computer and Computing Technologies in Agriculture, CCTA 2012, held in Zhangjiajie, China, in October 2012. The 108 revised papers presented were carefully selected from numerous submissions. They cover a wide range of interesting theories and applications of information technology in agriculture, including Internet of things and cloud computing; simulation models and decision-support systems for agricultural production; smart sensor, monitoring, and control technology; traceability and e-commerce technology; computer vision, computer graphics, and virtual reality; the application of information and communication technology in agriculture; and universal information service technology and service systems development in rural areas. The 55 papers included in the second volume focus on GIS, GPS, RS, and Precision Farming.

Essential Readings in Light Metals, Volume 2, Aluminum Reduction Technology

Springer Science & Business Media

In a unique collaboration, Nature Publishing Group and Institute of Physics Publishing have published the most extensive and comprehensive reference work in astronomy and astrophysics. This unique resource covers the entire field of astronomy and astrophysics and this online version includes the full text of over 2,750 articles, plus sophisticated search and retrieval functionality and links to the primary literature. The Encyclopaedia's authority is assured by editorial and advisory boards drawn from the world's foremost astronomers and astrophysicists. This first class resource is an essential source of information for undergraduates, graduate students, researchers and seasoned professionals, as well as for committed amateurs, librarians and lay people wishing to consult the definitive astronomy and astrophysics reference work.

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ONE OF A FOUR-BOOK COLLECTION
SPOTLIGHTING CLASSIC ARTICLES

Landmark research findings and reviews in aluminum reduction technology. Highlighting some of the most important findings and insights reported over the past five decades, this volume features many of the best original research papers and reviews on aluminum reduction technology published from 1963

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Bio-aggregates Based Building Materials CRC Press

This book is intended for engineer's in automotive industry and in research community of electrical machines. This book systematically focus on all the major aspects of switched reluctance motor for intelligent electric vehicle applications, including optimization design, drive system control, regenerative braking control, and motor-suspension system control, which is particularly suited for readers who are interested to learn the theory of the motor used for intelligent electric vehicles. The comprehensive and systematic treatment of practical issues around switched reluctance motor considering vehicle requirements is one of the major features of the book. The book can benefit researchers, engineers, and graduate students in fields of switched reluctance motor, electric vehicle drive system, regenerative braking system, motor-suspension system, etc.

The Key Technologies for Powertrain System of Intelligent Vehicles Based on Switched Reluctance Motors

Springer Nature

Water Conservancy and Civil Construction gathers the most cutting-edge research on: Water Conservancy Projects Civil Engineering Construction Technology and Process. The book is aimed at academics

and engineers in water and civil engineering.

Modern Materials and Technologies for Civil and Road Engineering CRC Press

This book explores the physics, technology and applications of particle accelerators. It illustrates the interconnections between applications and basic physical principles, enabling readers to better understand current and upcoming technologies and see beyond the paradigmatic borders of the individual fields. The reader will discover why accelerators are no longer just toys for scientists, but have also become modern and efficient nuclear workhorses. The book starts with an introduction to the relevant technologies and radiation safety aspects of accelerating electrons and ions from several keV to roughly 250 MeV. It subsequently describes the physics behind the interactions of these particle beams with matter. Mathematical descriptions and state-of-the-art computer models of energy-loss and nuclear interactions between the particle beams and targets round out the physics coverage. On this basis, the book then presents the most important accelerator applications in science, medicine, and industry, explaining and comparing more than 20 major application fields, encompassing semiconductors, cancer treatment, and space exploration. Despite the disparate fields involved, this book demonstrates how the same essential technology and physics connects all of these applications.

Encyclopedia of Astronomy & Astrophysics CRC Press

Extrusion is the operation of forming and shaping a molten or dough-like material by forcing it through a restriction, or die. It is applied and used in many batch and continuous processes. However, extrusion processing technology relies more on continuous process operations which use screw extruders to handle many process functions such as the transport and compression of particulate components, melting of polymers, mixing of viscous media, heat processing of polymeric and biopolymeric materials, product texturization and shaping, defibering and chemical impregnation of fibrous materials, reactive extrusion, and fractionation of solid-liquid systems. Extrusion processing technology is highly complex, and in-depth descriptions and discussions are required in order to provide a complete understanding and analysis of this area: this book aims to provide readers with these analyses and discussions. Extrusion Processing Technology: Food and Non-Food

Biomaterials provides an overview of extrusion processing technology and its established and emerging industrial applications. Potency of process intensification and sustainable processing is also discussed and illustrated. The book aims to span the gap between the principles of extrusion science and the practical knowledge of operational engineers and technicians. The authors bring their research and industrial experience in extrusion processing technology to provide a comprehensive, technical yet readable volume that will appeal to readers from both academic and practical backgrounds. This book is primarily aimed at scientists and engineers engaged in industry, research, and teaching activities related to the extrusion processing of foods (especially cereals, snacks, textured and fibrated proteins, functional ingredients, and instant powders), feeds (especially aquafeeds and petfoods), bioplastics and plastics, biosourced chemicals, paper pulp, and biofuels. It will also be of interest to students of food science, food engineering, and chemical engineering. Also available Formulation Engineering of Foods Edited by J.E. Norton, P.J. Fryer and I.T. Norton ISBN 978-0-470-67290-7 Food and Industrial Bioproducts and Bioprocessing Edited by N.T. Dunford ISBN 978-0-8138-2105-4 Handbook of Food Process Design Edited by J. Ahmed and M.S. Rahman ISBN 978-1-4443-3011-3 Superfund Innovative Technology Evaluation Springer

The role of the chemical reactor is crucial for the industrial conversion of raw materials into products and numerous factors must be considered when selecting an appropriate and efficient chemical reactor. *Chemical Reaction Engineering and Reactor Technology* defines the qualitative aspects that affect the selection of an industrial chemical reactor and couples various reactor models to case-specific kinetic expressions for chemical processes. Thoroughly revised and updated, this much-anticipated Second Edition addresses the rapid academic and industrial development of chemical reaction engineering. Offering a systematic development of the chemical reaction engineering concept, this volume explores: essential stoichiometric, kinetic, and thermodynamic terms needed in the analysis of chemical reactors

homogeneous and heterogeneous reactors reactor optimization aspects residence time distributions and non-ideal flow conditions in industrial reactors solutions of algebraic and ordinary differential equation systems gas- and liquid-phase diffusion coefficients and gas-film coefficients correlations for gas-liquid systems solubilities of gases in liquids guidelines for laboratory reactors and the estimation of kinetic parameters The authors pay special attention to the exact formulations and derivations of mass energy balances and their numerical solutions. Richly illustrated and containing exercises and solutions covering a number of processes, from oil refining to the development of specialty and fine chemicals, the text provides a clear understanding of chemical reactor analysis and design.

Nanomineralogy Springer
Materials for Additive Manufacturing covers the materials utilized in the additive manufacturing field, including polymers, metals, alloys and ceramic materials. A conceptual overview of the preparation and characterization of the materials and their processing is given, beginning with theoretical aspects that help readers better understand fundamental concepts. Emerging applications in medicine, aerospace, automotive, artwork and rapid manufacturing are also discussed. This book provides a comprehensive overview of materials, along with rapid prototyping technologies. Discusses the preparation and characterization of materials used for additive manufacturing Provides descriptions of microstructures and properties of the parts produced by additive manufacturing Includes recent industrial applications of materials processed in additive manufacturing
Computational Technologies for Fluid/thermal/structural/chemical Systems with Industrial Applications Academic Press

The 2014 International Conference on Water Resource and Environmental Protection [WREP2014] aims to bring researchers, engineers, and students to the areas of Water Resource and Environmental Protection. WREP2014 features unique mixed topics of Water Resource and Environmental Protection in the context of building healthier ecology and environment. The conference will provide a forum for sharing experiences

and original research contributions on those topics. Researchers and practitioners are invited to submit their contributions to WREP2014. This proceeding tends to collect the up-to-date, comprehensive and worldwide state-of-art knowledge on water resource and environmental protection. All of accepted papers were subjected to strict peer-reviewing by 2-4 expert referees. The papers have been selected for this proceedings based on originality, significance, and clarity for the purpose of the conference. The selected papers and additional late-breaking contributions to be presented will make an exciting technical program on WREP2014 conference. The conference program is extremely rich, featuring high-impact presentation. We hope this conference will not only provide the participants a broad overview of the latest research results on water resource and environmental protection, but also provide the participants a significant platform to build academic connections.

Proceedings of the 20th International Conference on Fluidized Bed

Combustion Essential Readings in Light Metals, Volume 2, Aluminum Reduction Technology

This book provides an effective review and critical analysis of the recently demonstrated room-temperature sodium-sulfur batteries. Divided into three sections, it highlights the status of the technologies and strategies developed for the sodium metal anode, insight into the development of sulfur cathode, and electrolyte engineering. It reviews past, present, and future perspectives for each cell component including characterization tools unveiling the fundamental understanding of the room-temperature sodium-sulfur batteries. FEATURES: • Highlights scientific challenges in developing room-temperature sodium-sulfur batteries • Covers pertinent anode, cathode, and electrolyte engineering • Provides scientific and technical interpretation for each of the cell components • Discusses how Na-S batteries relate to the more extensively researched Li-S batteries • Explores importance of the SEI and CEI in developing stable sodium-sulfur batteries This book is aimed at graduate students and researchers in energy science, materials science, and electrochemistry.

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