## University Of Queensland Chemical Engineering

## Marek Bryjak, Nalan Kabay, Bernabe L. Rivas, Jochen Bundschuh

*Biorefinery* Juan-Rodrigo Bastidas-Oyanedel, Jens Ejbye Schmidt, 2019-04-15 This book discusses the biorefinery of biomass feedstocks. In-depth chapters highlight the scientific and technical aspects and present a techno-economic analysis of such systems. By using a TEA approach, the authors present feasible pathways for the conversion of biomass (both residual biomass, energy crops, and algae biomass), showing the different possibilities for the production of biochemical materials, biofuels, and fertilizers. The concepts presented in this book will link companies, investors, and governments by providing a framework that will help reduce pollutants and create a biomass-related economy that incorporates the newest developments and technologies in the area.

Biodegradation of Toxic and Hazardous Chemicals Kashyap K Dubey, Kamal K Pant, Ashok Pandey, Maria Ángeles Sanromán, 2024-04-30 This timely reference book discusses the biotechnological applications of microorganisms as a crucial solution for the sustainable management of different types of toxic pollutants. It reviews the sustainable biodegradation approach and resource recovery for different kinds of pollutants like plastic wastes, pharmaceutical wastes, pesticides, and textile industry wastes. The book provides an understanding of biotechnology-based interventions toward a zero-waste route. KEY FEATURES Provides a deep understanding of biodegradation of toxic pollutants from industries ranging from textiles to pharmaceuticals Presents novel technologies for the sustainable treatment of environmental pollution Reviews crucial considerations like energy requirements and cost analysis Brings out the latest themes such as the eco-design study of bionanomaterials, bio-nanofilters, and assessment for the treatment of emerging pollutants and IoT-based technology Covers the latest research developments in the biodegradation of antibiotics, pesticides, and electronic wastes This book is meant for scientists, ecologists, microbiologists, industry experts, researchers, students, innovators involved in biotechnology research, and policymakers focused on bioremediation.

Geothermal Water Management Jochen Bundschuh, Barbara Tomaszewska, 2018-03-12 Availability of and adequate accessibility to freshwater and energy are two key technological and scientific problems of global significance. At the end of the 20th century, the deficit of water for human consumption and economic application forced us to focus on rational use of resources. Increasing the use of renewable energy sources and improving energy efficiency is a challenge for the 21st century. Geothermal energy is heat energy generated and stored in the Earth, accumulated in hydrothermal systems or in

dry rocks within the Earth's crust, in amounts which constitute the energy resources. The sustainable management of geothermal energy resources should be geared towards optimization of energy recovery, but also towards rational management of water resources since geothermal water serves both as energy carrier and also as valuable raw material. Geothermal waters, depending on their hydrogeothermal characteristics, the lithology of the rocks involved, the depth at which the resources occur and the sources of water supply, may be characterized by very diverse physicochemical parameters. This factor largely determines the technology to be used in their exploitation and the way the geothermal water can be used. This book is focused on the effective use of geothermal water and renewable energy for future needs in order to promote modern, sustainable and effective management of water resources. The research field includes crucial new areas of study: • an improvement in the management of freshwater resources through the use of residual geothermal water; • a review of the technologies available in the field of geothermal water treatment for its (re)use for energetic purposes and freshwater production, and • the development of balneotherapy. The book is aimed at professionals, academics and decision makers worldwide, water sector representatives and administrators, business enterprises specializing in renewable energy management and water treatment, working in the areas of geothermal energy usage, water resources, water supply and energy planning. This book has the potential to become a standard text used by educational institutions and research & development establishments involved in the geothermal water management.

**Froth Flotation** Maurice C. Fuerstenau, Graeme J. Jameson, Roe-Hoan Yoon, 2007 & Quot; Froth Flotation: A Century of Innovation comprehensively describes state-of-the-art research and practice in mineral froth flotation a century after its introduction. Recognized experts from around the world provide in-depth coverage on many facets of flotation, including the historical aspects; fundamentals; chemistry; flotation cells, modeling, and simulation; and flotation plant practice. This commemorative volume is an invaluable reference for industry professionals, researchers, and graduate students.--BOOK JACKET.

**Hydrocarbon Biorefinery** Sunil Kumar Maity, Kalyan Gayen, Tridib Kumar Bhowmick, 2021-09-02 Sustainable production of hydrocarbon biofuels from biomass, fuels that are fully compatible with existing internal combustion engines, will allow the global transport economy to transition to a sustainable energy source without the need for capital-intensive new infrastructures. Hydrocarbon Biorefinery: Sustainable Processing of Biomass for Hydrocarbon Biofuels presents a comprehensive and easy to understand consolidation of existing knowledge for the production of hydrocarbon biofuels from biomass. Three major areas for the conversion of biomass to hydrocarbon biofuels are addressed: i) Chemical and thermochemical conversion processes, ii) Biological and biochemical conversion processes, and iii) Conversion processes of biomass-derived compounds. Additionally, the book includes process design, life cycle analysis of various processes, reaction engineering, catalysts, process conditions and process concepts, and is supported with detailed case studies. The economic

viability of each process is specifically addressed to provide a clear guide for the economic development of future hydrocarbon biofuels. Hydrocarbon Biorefinery: Sustainable Processing of Biomass for Hydrocarbon Biofuels offers an all-inone resource for researchers, graduate students, and industry professionals working in the area of bioenergy and will be of interest to energy engineers, chemical engineers, bioengineers, chemists, agricultural researchers, and mechanical engineers. Furthermore, this book provides structured foundational content on biorefineries for undergraduate and graduate students. - Presents fundamental concepts and processes of hydrocarbon biofuel production, covering chemical, biological, and biomass-derived conversion processes - Synthesizes the state-of-the-art research and commercial initiatives of this emerging concept into stand-alone chapters, serving as a structured resource for researchers and practitioners - Emphasizes the process design and economic feasibility of each process using life cycle assessments to support commercial development

Sustainable Remediation Technologies for Emerging Pollutants in Aqueous Environment Mohammad Hadi Dehghani, Rama Rao Karri, Inderjeet Tyagi, 2023-09-12 Sustainable Technologies for Remediation of Emerging Pollutants from Aqueous Environment compiles and collates advanced technologies for the purification of water and wastewater. The book covers the biological purification of wastewater, the use of adsorbents for decontamination of water, the role of membrane technology and its composites for removing emerging pollutants, and applications of advanced oxidation processes (AOP) for removal of emerging pollutants. This resource provides a single source solution to academicians and young researchers by assembling the latest information on the application of the conventional and non-conventional in water and wastewater purification. - Presents global impacts of pollutants in the water environment, including organic pollutants, inorganic pollutants and biological contamination - Compares removal mechanisms of emerging pollutants by different purification technologies - Applies conventional and non-conventional techniques to water and wastewater purification processes

Innovative Materials and Methods for Water Treatment Marek Bryjak, Nalan Kabay, Bernabe L. Rivas, Jochen Bundschuh, 2016-02-17 Due to increasing demand for potable and irrigation water, water suppliers have to use alternative resources. They either have to regenerate wastewater or deal with contaminated surface water. This book brings together the experiences of various experts in preparing of innovative materials that are selective for arsenic and chromium removal, and in

Membrane Technologies for Water Treatment Alberto Figoli, Jan Hoinkis, Jochen Bundschuh, 2016-02-18 Focuses on the application of membrane technologies in removing toxic metals\metalloids from water. Particular attention is devoted to the removal of arsenic, uranium, and fluoride. These compounds are all existing in the earth's crust at levels between two and five thousands micrograms per kg (parts per million) on average and these compounds can be considered highly toxic to humans, who are exposed to them primarily from air, food and water. In order to comply with the new maximum contaminant level, numerous studies have been undertaken to improve established treatments or to develop novel treatment technologies

for removing toxic metals from contaminated surface and groundwater. Among the technologies available, applicable for water treatment, membrane technology has been identified as a promising technology to remove such toxic metals from water. The book describes both pressure driven (traditional processes, such as Nanofiltration, Reverse Osmosis, Ultrafiltration, etc) and more advanced membrane processes (such as forward osmosis, membrane distillation, and membrane bio-reactors) employed in the application of interest. Key aspect of this book is to provide information on both the basics of membrane technologies and on the results depending on the type of technology employed.

Membrane Technology for Water and Wastewater Treatment, Energy and Environment A.F. Ismail, Takeshi Matsuura, 2016-03-16 Realizing that water, energy and food are the three pillars to sustain the growth of human population in the future, this book deals with all the above aspects with particular emphasis on water and energy. In particular, the book addresses applications of membrane science and technology for water and wastewater treatment, energy and environment. Th

Production, Handling and Characterization of Particulate Materials Henk G. Merkus, Gabriel M.H. Meesters, 2015-11-26 This edited volume presents most techniques and methods that have been developed by material scientists, chemists, chemical engineers and physicists for the commercial production of particulate materials, ranging from the millimeter to the nanometer scale. The scope includes the physical and chemical background, experimental optimization of equipment and procedures, as well as an outlook on future methods. The books addresses issues of industrial importance such as specifications, control parameter(s), control strategy, process models, energy consumption and discusses the various techniques in relation to potential applications. In addition to the production processes, all major unit operations and characterization methods are described in this book. It differs from other books which are devoted to a single technique or a single material. Contributors to this book are acknowledged experts in their field. The aim of the book is to facilitate comparison of the different unit operations leading to optimum equipment choices for the production, handling and storage of particulate materials. An advantage of this approach is that unit operations that are common in one field of application are made accessible to other fields. The overall focus is on industrial application and the book includes some concrete examples. The book is an essential resource for students or researchers who work in collaboration with manufacturing industries or who are planning to make the switch from academia to industry.

Nanoporous Materials for Molecule Separation and Conversion Jian Liu, Frank Ding, 2020-07-04 Nanoporous Materials for Molecule Separation and Conversion cover the topic with sections on nanoporous material synthesis and characterization, nanoporous materials for molecule separation, and nanoporous materials for energy storage and renewable energy. Typical nanoporous materials including carbon, zeolite, silica and metal-organic frameworks and their applications in molecule separation and energy related applications are covered. In addition, the fundamentals of molecule adsorption and molecule

transport in nanoporous materials are also included, providing readers with a stronger understanding of the principles and topics covered. This is an important reference for anyone exploring nanoporous materials, including researchers and postgraduate students in materials science and chemical engineering. In addition, it is ideal for industry professionals working on a wide range of applications for nanoporous materials. - Outlines the fundamental principles of nanoporous materials design - Explores the application of nanoporous materials in important areas such as molecule separation and energy storage - Gives real-life examples of how nanoporous materials are used in a variety of industry sector

**Peptide Synthesis** Waleed M. Hussein, Mariusz Skwarczynski, 2025-07-20 This fully updated second edition provides a variety of procedures for synthetically producing peptides and their derivatives, ensuring the kind of precision that is important for successful synthesis. Chapters explore techniques relevant to drugs and vaccines are explored, such as conjugation and condensation methodologies. Written for the highly successful Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, Peptide Synthesis: Methods and Protocols, Second Edition aims to be comprehensive guide for researchers in the field.

Renewable Energy Technologies for Water Desalination Hacene Mahmoudi, Noreddine Ghaffour, Mattheus Goosen, Jochen Bundschuh, 2017-07-14 The book presents a thorough overview of the latest trends and challenges in renewable energy technologies applications for water desalination, with an emphasis on environmental concerns and sustainable development. Emphasis is on the various uses of renewable energy, as well as economics & scale-up, government subsidies & regulations, and environmental concerns. It provides an indication on how renewable energy technologies are rapidly emerging with the promise of economic and environmental viability for desalination. Further it gives a clear indication on how exactly to accelerate the expansion and commercialization of novel water production systems powered by renewable energies and in what manner environmental concerns may be minimized. This book is all-inclusive and wide-ranging and directed at decision makers in government, industry and the academic world as well as students.

The Ubiquitous Roles of Cytochrome P450 Proteins Astrid Sigel, Helmut Sigel, Roland K. O. Sigel, 2007-04-30 Helmut Sigel, Astrid Sigel and Roland K.O. Sigel, in close cooperation with John Wiley & Sons launch a new Series "Metal Ions in Life Sciences". There exists a whole range of books on Cytochromes P450, but none with the focus of this volume. This new volume in the Series concentrates on current hot topics in the area and tries to work out the underlying common developments. As a result the reader will find a systematic account of new results in this exciting research area. The table of contents gives an idea on the wide span of chapters, starting with overviews and the presentation of specific systems, and ending with chapters on carbon-carbon bond cleavage by P450 systems, drug metabolism as catalyzed by P450 systems, decomposition of xenobiotics by P450 enzymes and design and engineering of new P450 systems.

Contaminants of Emerging Concerns and Reigning Removal Technologies Manish Kumar, Sanjeeb Mohapatra, Kishor Acharya, 2022-06-30 With an increased demand for wastewater reuse, groundwater recharge with treated wastewater has been practiced across the globe. As a result, groundwater quality deteriorates by emerging micropollutants from various anthropogenic origins, including untreated wastewater, seepage of landfill leachate, and runoff from agricultural lands. The fate of such emerging and geogenic contaminants in subsurface systems, especially in the groundwater, depends on several factors. Physicochemical properties of contaminants such as octanol-water partition coefficient, dissociation constant, water solubility, susceptibility to biodegradation under anaerobic conditions, and environmental persistence under diverse geological and pH conditions play a critical role during subsurface mass flow. Thus, advanced wastewater treatment techniques, followed by implementing stricter guidelines, are some of the measures that can safeguard water resources. This book, in general, gives an understanding of the fate and mitigation strategies for emerging and geogenic contaminants in the groundwater. The first and second sections provide a detailed insight into various removal techniques and mitigation approaches. Possible treatment strategies, including bioremediation and natural attenuation, are also covered in those sections. Environmental assessment, groundwater vulnerability, health effects, and regulations pertaining to various contaminants are systematically presented in the third section.

**Nanotubes and Nanosheets** Ying (Ian) Chen,2015-02-24 Reveals Innovative Research on BN Nanotubes and NanosheetsNanotubes and Nanosheets: Functionalization and Applications of Boron Nitride and Other Nanomaterials is the first book devoted to nanotubes and nanosheets made of boron nitride (BN). It shows how the properties of BN nanotubes and nanosheets have led to many exciting applications where carb

Current Trends and Future Developments on (Bio-) Membranes Angelo Basile, Kamran Ghasemzadeh, 2019-07-16 Current Trends and Future Developments on (Bio-) Membranes: Microporous Membrane and Membrane Reactors focuses on the structure, preparation, characterization and applications of microporous membranes and membrane reactors, including transport mechanisms through a range of microporous membranes. It is a key reference text for R&D managers who are interested in the development of gas separation and water/waste treatment technologies, but is also well-suited for academic researchers and postgraduate students working in the broader area of strategic material production, separation and purification. Users will find comprehensive coverage of current methods, their characterization and properties, and various applications in gas separation and water treatment. - Reviews gas separation and water treatment processes and relates them to various applications - Outlines the use of microporous membranes in gas separations and water treatment - Introduces the various types of microporous membranes (graphene, polymeric, etc.) and their mechanism of action - Provides simulation models of the various processes

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### Chemical Engineering Progress, 1990

Chemical Engineering in the Pharmaceutical Industry Mary T. am Ende, David J. am Ende, 2019-04-01 A guide to the important chemical engineering concepts for the development of new drugs, revised second edition. The revised and updated second edition of Chemical Engineering in the Pharmaceutical Industry offers a guide to the experimental and computational methods related to drug product design and development. The second edition has been greatly expanded and covers a range of topics related to formulation design and process development of drug products. The authors review basic analytics for quantitation of drug product quality attributes, such as potency, purity, content uniformity, and dissolution, that are addressed with consideration of the applied statistics, process analytical technology, and process control. The 2nd Edition is divided into two separate books: 1) Active Pharmaceutical Ingredients (API's) and 2) Drug Product Design, Development and Modeling. The contributors explore technology transfer and scale-up of batch processes that are exemplified experimentally and computationally. Written for engineers working in the field, the book examines in-silico process modeling tools that streamline experimental screening approaches. In addition, the authors discuss the emerging field of continuous drug product manufacturing. This revised second edition: Contains 21 new or revised chapters, including chapters on quality by design, computational approaches for drug product modeling, process design with PAT and process control, engineering challenges and solutions Covers chemistry and engineering activities related to dosage form design, and process development, and scale-up Offers analytical methods and applied statistics that highlight drug product quality attributes as design features Presents updated and new example calculations and associated solutions Includes contributions from leading experts in the field Written for pharmaceutical engineers, chemical engineers, undergraduate and graduation students, and professionals in the field of pharmaceutical sciences and manufacturing, Chemical Engineering in the Pharmaceutical Industry, Second Edition contains information designed to be of use from the engineer's perspective and spans information from solid to semi-solid to lyophilized drug products.

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