



Sustainable Development in Chemical Engineering

Innovative Technologies

Vincenzo Piemonte | Marcello De Falco | Angelo Basile

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Emilie Sanchez

Sustainable Development In Chemical Engineering Innovative Technologies:

Sustainable Development in Chemical Engineering Vincenzo Piemonte,Marcello De Falco,Angelo Basile,2013-05-28

Sustainable development is an area that has world wide appeal from developed industrialized countries to the developing world Development of innovative technologies to achieve sustainability is being addressed by many European countries the USA and also China and India The need for chemical processes to be safe compact flexible energy efficient and environmentally benign and conducive to the rapid commercialization of new products poses new challenges for chemical engineers This book examines the newest technologies for sustainable development in chemical engineering through careful analysis of the technical aspects and discussion of the possible fields of industrial development The book is broad in its coverage and is divided into four sections Energy Production covering renewable energies innovative solar technologies cogeneration plants and smart grids Process Intensification describing why it is important in the chemical and petrochemical industry the engineering approach and nanoparticles as a smart technology for bioremediation Bio based Platform Chemicals including the production of bioethanol and biodiesel bioplastics production and biodegradability and biosurfactants Soil and Water Remediation covering water management and re use and soil remediation technologies Throughout the book there are case studies and examples of industrial processes in practice

Practical Aspects of Chemical Engineering Marek

Ochowiak,Szymon Woziwodzki,Michał Doligalski,Piotr Tomasz Mitkowski,2018-02-07 This book focuses on Chemical Engineering and Processing covering interdisciplinary innovation technologies and sciences closely related to chemical engineering such as computer image analysis modelling and IT The book presents interdisciplinary aspects of chemical and biochemical engineering interconnected with process system engineering process safety and computer science

Control

and Safety Analysis of Intensified Chemical Processes Dipesh Shikchand Patle,Gade Pandu Rangaiah,2024-03-25

Resource on the control and safety analysis of intensified chemical processes ranging from general methods to specific applications Control and Safety Analysis of Intensified Chemical Processes covers the basic principles of and recent developments in control and safety analysis of intensified chemical processes ranging from dynamic simulations and safety analysis to the design and control of important processes The text discusses general methods and tools such as dynamic simulation control and safety analysis as well as design aspects and analysis of important applications in order to provide scientists and engineers with an understanding of the design control and safety considerations involved in intensified chemical processes Sample topics covered in Control and Safety Analysis of Intensified Chemical Processes include Simulation and optimization methods common programs and simulators for simulation and optimization and interfacing of simulators and optimizers Programs simulators for dynamic simulation and control tuning of controllers and popular criteria for control assessment Control of a hybrid reactive extractive distillation systems for ternary azeotropic mixtures reactive distillation in recycle systems and middle vessel batch distillation with vapor recompression Safety analysis of intensified

processes e g extractive distillation dividing wall column dividing wall column with mechanical vapor recompression and algal biodiesel process A comprehensive resource on the subject Control and Safety Analysis of Intensified Chemical Processes is a highly valuable reference for researchers students and practitioners interested in process intensification and their applications The text can be adopted by instructors for use in advanced courses on process control and safety

Current Trends and Future Developments on (Bio-) Membranes Adolfo Iulianelli,Angelo Basile,2020-07-22 In the last decade the attention paid to the environmental protection has generated a considerable interest towards the development of new energy carriers and green energy production methods Hydrogen as an energy carrier becomes a potential important source of energy due to its neutral environmental impact However its production transformation and purification presents a challenge in the so called hydrogen economy Current Trends and Future Developments on Bio Membranes gives a comprehensive review on the present state of the art of the hydrogen production and purification using new and alternative technologies stressing green processes and environment protection The book covers green processes renewable feedstocks utilization and membrane reactor technology for hydrogen production in line with new process intensification strategy The book is divided in four sections ie fundamentals of hydrogen generation its impact on environmental issue new applications involving hydrogen and its storage and distribution The main scope of this book is to offer a new horizon on hydrogen generation and utilization It stresses the role of new technologies for hydrogen generation including the micro reactors technology for portable applications their combination with high temperature fuel cells the role of gas separation for both hydrogen purification and CO₂ sequestration the exploitation of renewable sources biogas bioethanol and other renewables feedstocks in reforming processes useful to generate hydrogen membrane and membrane reactor technology as well as membrane bio reactors etc Presents process intensification and commercialization of new and alternative hydrogen generation technologies Relates new hydrogen production methods to their environmental impact Outlines the fundamentals of hydrogen generation Includes new developed technologies for hydrogen transport and storage

Platform Chemical Biorefinery Satinder Kaur Brar,Saurabh Jyoti Sarma,Kannan Pakshirajan,2016-06-02 Platform Chemical Biorefinery Future Green Chemistry provides information on three different aspects of platform chemical biorefinery The book first presents a basic introduction to the industry beneficial for university students then provides engineering details of existing or potential platform chemical biorefinery processes helpful to technical staff of biorefineries Finally the book presents a critical review of the entire platform chemical biorefinery process including extensive global biorefinery practices and their potential environmental and market related consequences Platform chemicals are building blocks of different valuable chemicals The book evaluates the possibility of renewable feedstock based platform chemical production and the fundamental challenges associated with this objective Thus the book is a useful reference for both academic readers and industry technical workers The book guides the research community working in the field of platform chemical biorefinery to develop new pathways and

technologies in combination with their market value and desirability Offers comprehensive coverage of platform chemicals biorefineries recent advances and technology developments potential issues for preventing commercialization and solutions Discusses existing technologies for platform chemicals production highlighting benefits as well their possible adverse effects on the environment and food security Includes a global market analysis of platform chemicals and outlines industry opportunities Serves as a useful reference for both academic readers and industry technical workers

Assessing and Measuring Environmental Impact and Sustainability

Jiří Jaromír Klemeš, 2015-01-20

Assessing and Measuring Environmental Impact and Sustainability answers the question what are the available methodologies to assess the environmental sustainability of a product system or process Multiple well known authors share their expertise in order to give a broad perspective of this issue from a chemical and environmental engineering perspective This mathematical quantitative book includes many case studies to assist with the practical application of environmental and sustainability methods Readers learn how to efficiently assess and use these methods This book summarizes all relevant environmental methodologies to assess the sustainability of a product and tools in order to develop more green products or processes With life cycle assessment as its main methodology this book speaks to engineers interested in environmental impact and sustainability Helps engineers to assess evaluate and measure sustainability in industry Provides workable approaches to environmental and sustainability assessment Readers learn tools to assess the sustainability of a process or product and to design it in an environmentally friendly way

Proceedings of the Ninth International Scientific Conference "Intelligent Information Technologies for Industry" (IITI'25), Volume 1 Sergey Kovalev, Igor Kotenko, Andrey Sukhanov, 2025-12-18 This book contains the works connected with the key advances in Intelligent Information Technologies for Industry presented at IITI 2025 the Ninth International Scientific Conference on Intelligent Information Technologies for Industry held on November 5-7 2025 in Sirius Federal Territory Russia The book is written by the experts in the field of applied artificial intelligence including topics such as machine learning explainable AI decision making fuzzy logic multi agent and bioinspired systems including their modern applications The following industrial implementations were touched railway automation cyber security intelligent medical systems navigation systems The editors believe that this book will be helpful for all scientists and engineers interested in the modern state of applied artificial intelligence

Nanomaterials for Enhanced Plant-Based Food Production

Huseyin Tombuloglu, Guzin Tombuloglu, Khalid Rehman Hakeem, Faheem Shehzad

Baloch, Mohammad Azam Ansari, 2025-07-01 Nanomaterials for Enhanced Plant Based Food Production a new release in the Nanomaterial Plant Interactions series presents up to date insights on the use of nano enabled agricultural tools from nanofertilizers to nanosensors including how to balance safety and environmental impact concerns to ensure optimal utilization The book provides a range of solution options and guides the reader in identifying the most appropriate choice With state of the art broad coverage of recent and potential applications this book covers the most recent advances in the

application of nanotechnology toward fulfilling the world's food demands for present and future generations. Presents the advantages and challenges of utilizing nanomaterials for plant health improvement. Includes coverage of environmental impact concerns. Highlights the latest advances and future prospects for improving crop yield for improved food security.

13th International Conference on Information Systems and Advanced Technologies "ICISAT 2023" Mohamed Ridda Laouar, Valentina Emilia Balas, Vincenzo Piuri, Dana Rad, Zineb Touati Hamad, Abbas Cheddad, 2024-08-27. This book covers the Proceedings of the 13th International Conference on Information Systems and Advanced Technologies ICISAT 2023. One of the evocative and valuable dimensions of this conference is the way it brings together researchers, scientists, academics, and engineers in the field from different countries and enables discussions and debate of relevant issues, challenges, opportunities, and research findings. The ICISAT 2023 conference provided a forum for research and developments in the field of information systems and advanced technologies and new trends in developing information systems, organizational aspects of their development and intelligent aspects of the final product. The aim of the ICISAT 2023 is to report progress and development of methodologies, technologies, planning and implementation tools and standards in information systems technologies and sciences. ICISAT 2023 aims at addressing issues related to the intelligent information data science and decision support system from multidisciplinary perspectives and to discuss the research, teaching, and professional practice in the field. The book of ICISAT 2023 includes selected papers from the 13th International Conference on Information Systems and Advanced Technologies ICISAT 2023 organized during December 29-30, 2023. In this book, researchers, professional software and systems engineers from around the world addressed intelligent information data science and decision support system for the conference. The ideas and practical solutions described in the book are the outcome of dedicated research by academics and practitioners aiming to advance theory and practice in this research domain. The list of topics is in all the areas of modern intelligent information systems and technologies such as neural networks, evolutionary computing, adaptive systems, pervasive system, ubiquitous system, E-learning, and teaching knowledge based paradigms, learning paradigms, intelligent data analysis, intelligent decision making, and support system, intelligent network security, web intelligence, deep learning, natural language processing, image processing, general machine learning, and unsupervised learning.

Re-Engineering the Chemical Processing Plant Andrzej Stankiewicz, Jacob A. Moulijn, 2004. The first guide to compile current research and frontline developments in the science of process intensification. PI Re-Engineering the Chemical Processing Plant illustrates the design, integration, and application of PI principles and structures for the development and optimization of chemical and industrial plants. This volume updates professionals on emerging PI equipment and methodologies to promote technological advances and operational efficacy in chemical, biochemical, and engineering environments and presents clear examples illustrating the implementation and application of specific process intensifying equipment and methods in various commercial arenas.

The Chemical Engineer, 2009 *International*

Journal of Environmental Technology and Management, 2003 *Innovative Technologies for Site Remediation and Hazardous Waste Management* Radisav D. Vidic, Frederick G. Pohland, 1995 This collection contains 94 papers on site remediation and hazardous waste management presented at the ASCE CSCE Environmental Engineering Conference held in Pittsburgh Pennsylvania July 23-26 1995 Annual Report of the Faculty of Engineering, Kyushu University Kyūshū Daigaku. Kōgaku Kenkyūin, 2006 **Chemical Research Faculties** American Chemical Society, 1996 **Geothermal Resources Council Bulletin** Geothermal Resources Council, 1996 **Chemistry and Chemical Engineering for Sustainable Development** Miguel A. Esteso, Ana Cristina Faria Ribeiro, A. K. Haghi, 2020-11-26 The world faces significant challenges as population and consumption continue to grow while nonrenewable fossil fuels and other raw materials are depleted at ever increasing rates. This volume takes a technical approach that addresses these issues using green design and analysis. It brings together innovative research new concepts and novel developments in the application of new tools for chemical and materials engineers. It is an immensely research oriented comprehensive and practical work that focuses on the use of applied concepts to enhance productivity and sustainability in chemical engineering. It contains significant research that reports on new methodologies and important applications in the fields of chemical engineering as well as the latest coverage of chemical databases. Highlighting theoretical foundations real world cases and future directions the volume covers a diverse collection of the newest innovations in the field including new research on atomic nuclear physics the barometric formula amino acids in aqueous solutions bioremediation and biotechnology and more *Chemical Engineering Progress*, 2006 Process Intensification David Reay, Colin Ramshaw, Adam Harvey, 2008-08-22 Annotation Process intensification PI leads to a substantially smaller cleaner safer and more energy efficient process technology. For example the scale reduction made possible by using high gravity fields to separate liquids has seen the reduction of distillation columns from 75m to a four or five metres in height in some areas. PI is a hot topic in chemical and process engineering and beyond and is now reaching a maturity that is seeing PI concepts applied to a wide range of processes and technologies. This is the first book to provide a practical working guide to understanding PI and developing successful PI solutions and applications. By demonstrating the broad application of PI this book will be of value to audiences looking to take current technologies into new process areas as well as those looking to further its use in the chemical engineering sector. As well as detailing technologies and practical applications the book focusses on safety energy and environmental issues giving guidance on how to incorporate PI in plant design and operation safely efficiently and effectively. This book provides up to date access to the best current information on PI both through the world class experience of the authors and by pinpointing other significant sources of data equipment and expertise. Shows chemical and process engineers how to apply process intensification PI to their product process or production line. A hard working reference and user guide to the technology AND application of PI covering fundamentals industry applications and supplemented by an development and implementation guide. Leading

author team including Professor Colin Ramshaw developer of the HiGee high gravity distillation process at ICI who is widely credited as the father of PI **Innovation Performance Review of Belarus**, 2011 The Innovation Performance Review of Belarus provides a set of recommendations and policy options to stimulate innovation activity in the country enhance its innovation capacity and improve the overall efficiency of the national innovation system Close collaboration with the national authorities and other Belarusian experts throughout the project has helped in identifying issues of practical importance to policymakers and in ensuring the relevance of the Review conclusions and recommendations to national circumstances

Decoding **Sustainable Development In Chemical Engineering Innovative Technologies**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Sustainable Development In Chemical Engineering Innovative Technologies**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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