

- Static mixers reactors
- Milli- micro-reactors
- Monolithic reactors
- Spinning disk reactors
- Compact heat exchangers
- Centrifugal absorbers

Structure

- Microwaves
- Ultrasound
- Solar energy
- Plasma
- Electric field
- Centrifugal field

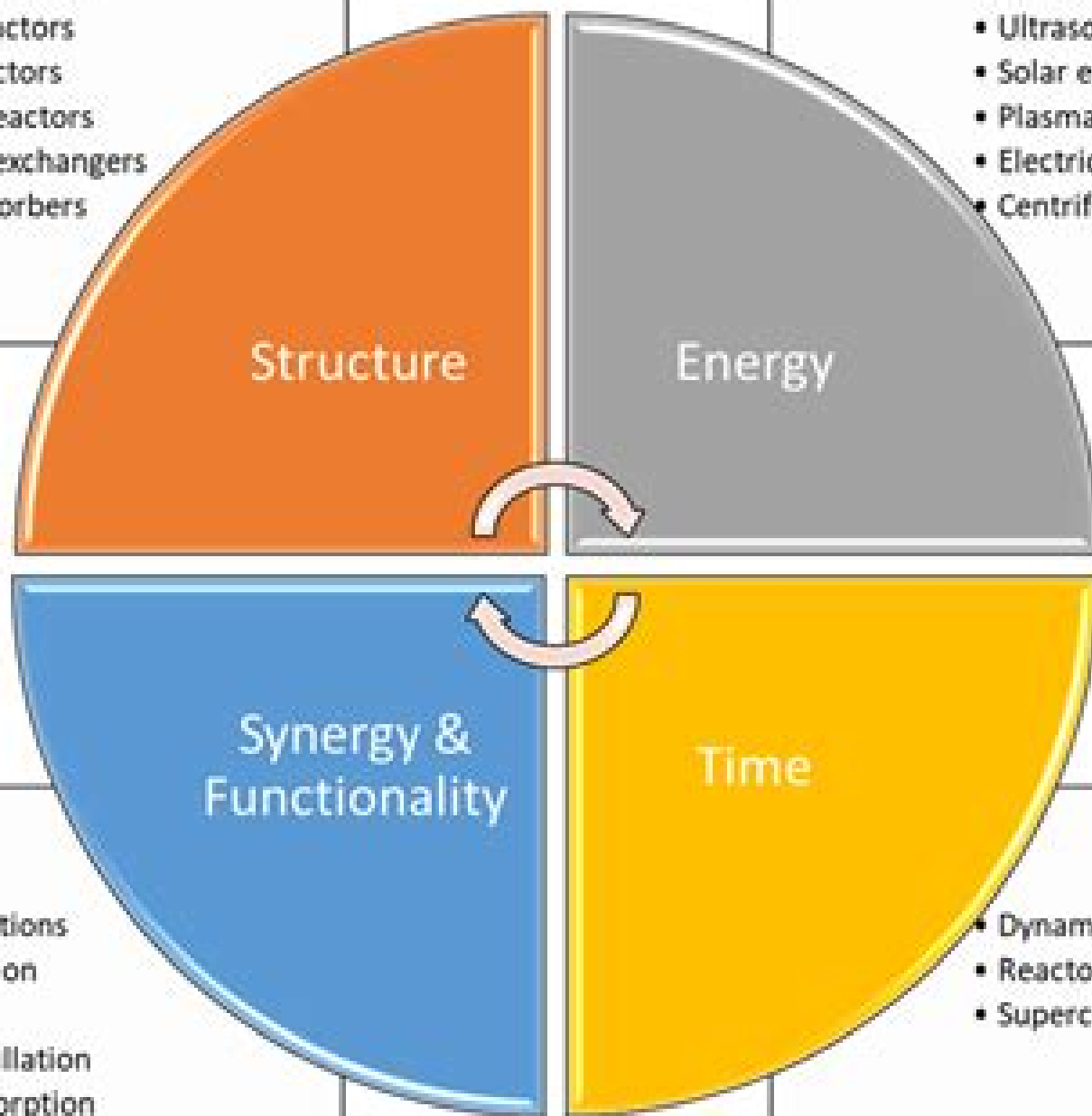
Energy

Synergy &
Functionality

Time

- Reactive separations
- Reactive extrusion
- Fuel cells
- Membrane distillation
- Membrane adsorption
- Absorptive distillation

- Dynamic operation
- Reactor operation
- Supercritical fluids



Process Intensification For The Chemical Industry

**Athanasios I. Papadopoulos, Panos
Seferlis**



Process Intensification For The Chemical Industry:

Process Intensification for the Chemical Industry C. Ramshaw, 1995-03-02 This is a collection of the papers presented at the 1st International Conference on Process Intensification for the Chemical Industry organized and sponsored by the BHR Group Limited and held in Antwerp Belgium on 6-8 December 1995 Re-Engineering the Chemical Processing Plant Andrzej Stankiewicz, Jacob A. Moulijn, 2018-12-14 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

Process Intensification for the Chemical Industry A. Green, 1999 **Process Intensification** Jan Harmsen, Maarten Verkerk, 2020-07-20 Process Intensification is a comprehensive textbook and treats the theory of process intensification design and all innovation steps from idea generation to commercial implementation and all focused on contributing to the UN Sustainable Development Goals This book covers the hard elements of design modelling and experimental validations and the soft elements values of engineers interests of stakeholders and beliefs of society *Process Plants* Trevor A. Kletz, Paul Amyotte, 1998-08-01 This easy to read source provides a wealth of stimulating information on the design of inherently safer and user friendly plants It demonstrates how plants can withstand human error and equipment failure without serious effects on safety output or efficiency Examples of user friendly design and increased coverage on design procedures are implemented Heat and Mass Transfer Intensification and Shape Optimization Lingai Luo, 2013-02-26 Is the heat and mass transfer intensification defined as a new paradigm of process engineering or is it just a common and old idea renamed and given the current taste Where might intensification occur How to achieve intensification How the shape optimization of thermal and fluidic devices leads to intensified heat and mass transfers To answer these questions Heat Mass Transfer Intensification and Shape Optimization A Multi scale Approach clarifies the definition of the intensification by highlighting the potential role of the multi scale structures the specific interfacial area the distribution of driving force the modes of energy supply and the temporal aspects of processes A reflection on the methods of process intensification or heat and mass transfer enhancement in multi scale structures is provided including porous media heat exchangers fluid distributors mixers and reactors A multi scale approach to achieve intensification and shape optimization is developed and clearly explained Providing readers with a tool box of reflections techniques methods supported by literature reviews Heat Mass Transfer Intensification and Shape Optimization A Multi scale Approach will be a key guide for students a teaching aid for lecturers and a source of inspiration for future research subjects 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

Process Intensification Technologies for Green Chemistry Kamelia Boodhoo, Adam Harvey, 2013-03-04 The successful implementation of greener chemical processes relies not only on the development of more efficient catalysts for synthetic chemistry but also and as importantly on the development of reactor and separation technologies which can deliver enhanced processing performance in a safe cost effective and energy efficient manner Process intensification has emerged as a promising field which can effectively tackle the challenges of significant process enhancement whilst also offering the potential to diminish the environmental impact presented by the chemical industry Following an introduction to process intensification and the principles of green chemistry this book presents a number of intensified technologies which have been researched and developed including case studies to illustrate their application to green chemical processes Topics covered include Intensified reactor technologies spinning disc reactors microreactors monolith reactors oscillatory flow reactors cavitation reactors Combined reactor separator systems membrane reactors reactive distillation reactive extraction reactive absorption Membrane separations for green chemistry Industry relevance of process intensification including economics and environmental impact opportunities for energy saving and practical considerations for industrial implementation Process Intensification for Green Chemistry is a valuable resource for practising engineers and chemists alike who are interested in applying intensified reactor and or separator systems in a range of industries to achieve green chemistry principles

Design of Simple and Robust Process Plants J. L. A. Koolen, 2001-10-15

The approaches to design process plants described in this book lead to process designs which require 30-40% less capital than usual. The book is unique since it is the first comprehensive work addressing both the total process design and operational approach. Technological developments during the last decade made the design of really competitive processes possible. Mechanical developments have resulted in reliable and robust equipment. Process developments have created opportunities to minimize the amount of equipment. Furthermore, different logistic approaches, integration of process functionality and intensification of the unit operations are possible. Computer and control technology allows remote control operation and first pass prime production. In this work, design philosophies are discussed and their implementation is shown as a structured approach for planned and existing plants. Numerous examples are presented to illustrate what simple design can create. The work is intended for experienced engineers and managers involved in process design, control design and operation but is also interesting for students. Project engineers and managers have to apply these new approaches to achieve competitive processes. A process plant should meet the simplicity and robustness of a household refrigerator. This book has been written to allow to achieve this aim. Chairman of the Judges Award from IChemE 2003.

Chemical Engineering Essentials, Volume 2 Raj K. Arya, George D. Verros, J. Paulo Davim, 2025-05-13 In an era of rapid innovation and with a focus on sustainability, *Chemical Engineering Essentials* provides a definitive guide to mastering the discipline. Divided into two volumes, this series offers a seamless blend of foundational knowledge and advanced applications to address the evolving needs of academia and industry. Volume 1 lays a strong foundation with topics such as material and energy balances, thermodynamics, phase equilibrium, fluid mechanics, transport phenomena, and essential separation processes such as distillation and membrane technologies. This volume builds on these principles, delving into reaction engineering, reactor modeling with MATLAB and ASPEN PLUS, material properties, process intensification, and nanotechnology. It also addresses critical global challenges, emphasizing green chemistry, waste minimization, resource recovery, and workplace safety. Together, these volumes provide a holistic understanding of chemical engineering, equipping readers with the tools to innovate and lead in a dynamic and sustainable future.

Efficiency and Sustainability in the Energy and Chemical Industries Krishnan Sankaranarayanan, 2004-01-21 Translating fundamental principles of irreversible thermodynamics into day-to-day engineering concepts, this reference provides the tools to accurately measure process efficiency and sustainability in the power and chemical industries, helping engineers to recognize why losses occur and how they can be reduced utilizing familiar thermodynamic principles.

Analysis of Drug Impurities Richard J. Smith, Michael L. Webb, 2008-04-15 A key component of the overall quality of a pharmaceutical is control of impurities, as their presence, even in small amounts, may affect drug safety and efficacy. The identification and quantification of impurities to acceptable standards presents a significant challenge to the analytical chemist. Analytical science is developing rapidly and provides increasing opportunity to identify the structure and therefore the origin and safety implications of these impurities and the challenges of their

measurement drives the development of modern quantitative methods Written for both practicing and student analytical chemists **Analysis of Drug Impurities** provides a detailed overview of the challenges and the techniques available to permit accurate identification and quantification of drug impurities

Process Systems and Materials for CO₂ Capture

Athanasios I. Papadopoulos, Panos Seferlis, 2017-05-01 This comprehensive volume brings together an extensive collection of systematic computer aided tools and methods developed in recent years for CO₂ capture applications and presents a structured and organized account of works from internationally acknowledged scientists and engineers through Modeling of materials and processes based on chemical and physical principles Design of materials and processes based on systematic optimization methods Utilization of advanced control and integration methods in process and plant wide operations The tools and methods described are illustrated through case studies on materials such as solvents adsorbents and membranes and on processes such as absorption desorption pressure and vacuum swing adsorption membranes oxycombustion solid looping etc **Process Systems and Materials for CO₂ Capture Modelling Design Control and Integration** should become the essential introductory resource for researchers and industrial practitioners in the field of CO₂ capture technology who wish to explore developments in computer aided tools and methods In addition it aims to introduce CO₂ capture technologies to process systems engineers working in the development of general computational tools and methods by highlighting opportunities for new developments to address the needs and challenges in CO₂ capture technologies

Reactive and Membrane-Assisted Separations Philip Lutze, Andrzej Górak, 2016-07-28 Process intensification aims for increasing efficiency and sustainability of bio chemical production processes This book presents strategies for improving fluid separation such as reactive distillation reactive absorption and membrane assisted separations The authors discuss computer simulation model development methodological approaches for synthesis and the design and scale up of final industrial processes

Industrial Process Scale-up Jan Harmsen, 2013-04-25 This book will help industrial process innovators in research development and commercial start up to assess the risks of commercial scale implementation and provide them with practical guidelines and methods to reduce the risks to acceptable levels The book can also be used in co operation with industrial R D people and academic researchers to shape open innovation programs and in education as a reference book for process innovation courses Offers easily accessible step by step and concise guidelines for industrial process scale up Explains each stage of the innovation funnel research development demonstration commercial implementation for any process type and branch Based on industrial experiences and practices which reduces the risks of commercial scale implementation of new processes to acceptable levels and reduces cost and time of process innovation Very clear attractive layout using text boxes that contain clarifying notes and additional information on specific topics which makes it a quick reference of main subjects and additional information

Green Chemistry and Technologies Long Zhang, Changsheng Gong, Dai Bin, 2018-09-24 The book gives a systematic introduction to green chemistry principles and technologies in inorganic and organic chemistry polymer sciences and

pharmaceutical industry It also discusses the use of biomass and marine resources for synthesis as well as renewable energy utilization and the concepts and evaluation of recycling economy and eco industrial parks **Sustainable Value Creation in the Fine and Speciality Chemicals Industry** R. Rajagopal,2014-06-12 The global fine and speciality chemicals industry is a vital segment within the chemical value chain catering to a multitude of societal and industrial needs Regulatory sustainability and consumer forces have been constantly shaping the business fundamentals of this industry Developing value creation strategies which embed economic environmental and social sustainability components will need a comprehensive assessment of business scientific and technological challenges facing the industry Sustainable Value Creation in the Fine and Speciality Chemicals Industry assesses sustainable value creation options against the backdrop of global mega trends that are defining the present and future course of the industry It discusses innovative strategies in feedstocks R D technology manufacturing resource management and the supply chain as well as the significance of the bio based chemical economy in enabling sustainable value creation in the fine and speciality chemicals industry Topics covered include Transformation in the fine and speciality chemicals business Sustainable management evolution transitions and tools Research and technology directions Resource optimization strategies Bio based chemicals specialities and polymers Sustainable practices in the fine and speciality chemicals industry Sustainable value creation strategies Sustainable Value Creation in the Fine and Speciality Chemicals Industry presents a comprehensive overview of strategic options for sustainability management in the global fine and speciality chemicals industry It will be a valuable resource for chemists and chemical engineers involved in the design and development of economically environmentally and socially sustainable practices for the future **Green and Sustainable Chemistry and Engineering** Concepcion Jimenez Gonzales,David J. C. Constable,2025-09-17 The first textbook to fully integrate Green and Sustainable Chemistry and Engineering now in its second edition Green and Sustainable Chemistry and Engineering addresses key concepts and processes from an industrial and manufacturing perspective Using an integrated systems oriented approach this invaluable single volume resource bridges the divide between chemistry process design and engineering as well as environment health safety and life cycle considerations This revised new edition discusses trends in chemical processing that can lead to more sustainable practices explores new methods in the design of greener chemical synthesis addresses sustainability challenges and implementation issues and more Up to date examples and new practical exercises based on the broad experience of the authors in applied and fundamental research corporate consulting and education are incorporated throughout the text Designed to advance green chemistry and green engineering as disciplines in the broader context of sustainability Green and Sustainable Chemistry and Engineering Illustrates the role of green and sustainable chemistry and engineering in the adoption of sustainable practices Describes the components of chemistry supporting the design of sustainable chemical reactions and reaction pathways Presents an approach to materials selection promoting the sustainability of chemical synthesis without diminishing efficiency Highlights

key concepts that support the design of more sustainable chemical processes Provides background and context for placing a particular chemical process in the broader chemical enterprise Includes access to a companion website with a solutions manual and supplementary resources Green and Sustainable Chemistry and Engineering A Practical Design Approach Second Edition remains an ideal textbook for graduate and senior level courses in Chemistry and Chemical Engineering and an invaluable reference for chemists and engineers in manufacturing and R D especially those working in fine chemicals and pharmaceuticals

From Additive Manufacturing to 3D/4D Printing 2 Jean-Claude André, 2017-10-30 Additive manufacturing which was first invented in France and then applied in the United States is now 33 years old and represents a market of around 5 billion euros per year with annual growth of between 20 and 30% Today additive manufacturing is experiencing a great amount of innovation in its processes software engineering and materials used Its strength as a process has more recently allowed for the exploration of new niches ranging from applications at nanometer and decameter scales to others in mechanics and health As a result the limitations of the process have also begun to emerge which include the quality of the tools their cost of manufacture the multi material aspects functionalities and surface conditions Volume 2 of this series presents the current techniques improvements and limits of additive manufacturing providing an up to date review of this process

Selenium Contamination in Water Pooja Devi, Pardeep Singh, Arindam Malakar, Daniel Snow, 2021-05-12 The contamination of environment and water resources by Selenium Se and its oxyanions from various sources are emerging contaminants of significant health and environmental concern The primary sources include agricultural drainage water mine drainage residues from fossil fuels thermoelectric power plants oil refineries and metal ores Various methods and technologies have been developed which focus on the treatment of selenium containing waters and wastewater High concentrations of selenium in water cause various adverse impact to human health such as carcinogenic genotoxic and cytotoxic effects But in the lower concentrations it is a useful constituent of the biological system The range between toxicity and deficiency of selenium is minimal 40 to 400 g per day due to its dual nature Selenium Contamination in Water contains the latest status and information on selenium s origin its chemistry and its toxicity to humans The book represents a comprehensive and advanced reference book for students researchers practitioners and policymakers in working in the field of metalloids in particular selenium A special emphasis is given on its geological distribution monitoring techniques and remedial technologies As such the authors critically analyze the various techniques used for the monitoring and removal of selenium from water Featuring chapters arranged according to the major themes of the latest research with specific case studies from industrial experiences of selenium detection and removal Selenium Contamination in Water will be particularly valued by researchers practitioners and policymakers in working in the field of metalloids including selenium

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