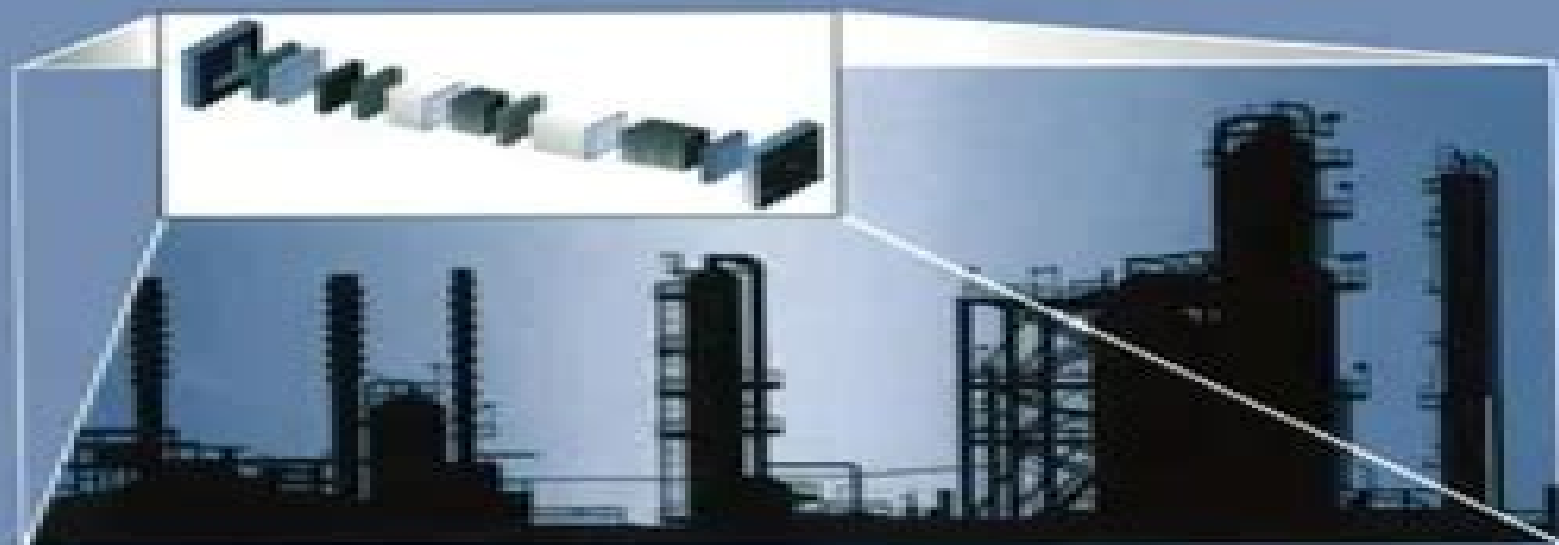


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Microreactor Technology and Process Intensification



EDITED BY
Yong Wang and Jamelyn D. Holladay

Microreactor Technology And Process Intensification

W. Ehrfeld

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

Microreactor Technology And Process Intensification:

Microreactor Technology and Process Intensification Yong Wang, Jamelyn D. Holladay, 2005 Microreaction technology with its unprecedented heat and mass transfer advantages as well as uniform residence time and flow pattern is one of the few technologies with potential to develop efficient environmentally benign and compact processes Novel fabrication and processing techniques equipment and operational methods are resulting in spectacular developments that go beyond traditional chemical engineering These new developments promise improvements in process plants and lead to the transformation of our concept of chemical plants into compact safe energy efficient and environmentally sustainable processes Microsystems are now available in many devices for commercial applications including micromixers and microreactors as alternative to batch production in pharmaceutical and fine chemical industry lab on chip devices microsensors advanced rapid throughput chemical and catalyst screening tools e g combi distributed or portable power and chemical production distributed heating and cooling and even out of this world applications with NASA A wide diversity of subjects are discussed in this book ranging from catalysis to fuel processing to combinatorial techniques to separations to novel reactors all of which are enabled by microtechnology principles World renowned pioneers Klavs Jensen Volker Hessel Jennifer Holmgren and Galip Akay provide accounts on both historical developments and the current state of the art as well as insights into future research and development in microreactor and process intensification Research and developments are presented by industry universities U S National Laboratories and other laboratories located in the United States and throughout the world It is composed of peer reviewed chapters from both contributing and invited authors The review and original research topics include 1 introductory and general overviews 2 microreactors including catalysts for microreactors fuel processors milli second contact time catalysis gas to liquid technology and biomass conversion and 3 process intensification such as micro mixers reactive membranes and intensification of separation operations

Process Intensification David Reay, Colin Ramshaw, Adam Harvey, 2013-06-05 Process Intensification Engineering for Efficiency Sustainability and Flexibility is the first book to provide a practical working guide to understanding process intensification PI and developing successful PI solutions and applications in chemical process civil environmental energy pharmaceutical biological and biochemical systems Process intensification is a chemical and process design approach that leads to substantially smaller cleaner safer and more energy efficient process technology It improves process flexibility product quality speed to market and inherent safety with a reduced environmental footprint This book represents a valuable resource for engineers working with leading edge process technologies and those involved research and development of chemical process environmental pharmaceutical and bioscience systems No other reference covers both the technology and application of PI addressing fundamentals industry applications and including a development and implementation guide Covers hot and high growth topics including emission prevention sustainable design and pinch analysis World class authors

Colin Ramshaw pioneered PI at ICI and is widely credited as the father of the technology **Handbook of Thermal Science and Engineering**, 2018-07-31 This Handbook provides researchers faculty design engineers in industrial R D and practicing engineers in the field concise treatments of advanced and more recently established topics in thermal science and engineering with an important emphasis on micro and nanosystems not covered in earlier references on applied thermal science heat transfer or relevant aspects of mechanical chemical engineering Major sections address new developments in heat transfer transport phenomena single and multiphase flows with energy transfer thermal bioengineering thermal radiation combined mode heat transfer coupled heat and mass transfer and energy systems Energy transport at the macro scale and micro nano scales is also included The internationally recognized team of authors adopt a consistent and systematic approach and writing style including ample cross reference among topics offering readers a user friendly knowledgebase greater than the sum of its parts perfect for frequent consultation The Handbook of Thermal Science and Engineering is ideal for academic and professional readers in the traditional and emerging areas of mechanical engineering chemical engineering aerospace engineering bioengineering electronics fabrication energy and manufacturing concerned with the influence thermal phenomena **Microreactors in Preparative Chemistry** Wladimir Reschetilowski, 2013-09-13 This is the first book in the field to focus on these aspects providing extremely valuable information unavailable elsewhere for anyone seeking the practical application of microreactor technology in preparative chemistry The topics covered branch out in three different directions To begin with the knowledge necessary for the preparative chemistry concerning the influence of the so called microeffects on the reaction procedure and on mass and heat transfer as well as the surface phenomena are provided in detail Next practical aspects of the synthesis of various basic chemicals and fine chemicals polymers bioproducts and nanoparticles are discussed including important advice for both the researcher and industrial chemist Finally reaction examples in microreactors whose reaction guidance are best understood are given together with universally applicable correlations as well as modeling approaches and transfer potential on related reaction systems With its specific instructions tips and experimental procedures for product syntheses as well as the inclusion of both the technical and theoretical background this is a must have for beginners and experts alike working in this emerging field **Microreaction Technology** M. Matlosz, W. Ehrfeld, J.P. Baselt, 2012-12-06 IMRET 5 featured more than 80 oral and poster communications covering the entire interdisciplinary field from design production modeling and characterization of microreactor devices to application of microstructured systems for production energy and transportation including many analytical and biological applications A particularly strong topic was the investigation of the potential of microstructuring of reactors and systems components for process intensification Perspectives of combining local in situ data acquisition with appropriate microstructuring of actuators and components within chemical and biological devices were explored in order to enhance process performance and facilitate process control **Process Intensification Technologies for Green Chemistry**

Kamelia Boodhoo, Adam Harvey, 2013-01-03 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 and Engineering of Microreactor and Smart-Scaled Flow Processes* Volker Hessel, 2018-10-08 This book is a printed edition of the Special Issue Design and Engineering of Microreactor and Smart Scaled Flow Processes that was published in *Processes* *Microreactors in Organic Synthesis and Catalysis* Thomas Wirth, 2008-05-05 This one stop reference is the first book on this emerging and rapid developing field with a focus on synthesis and catalysis As such it covers all aspects from academia and industry in a clearly structured way Leading experts provide the background information as an initial aid for newcomers to the field while chapters on different reaction types and industrial applications make this an equally vital resource for specialists From the contents Introduction and background Fabrication of microreactors Properties and use of microreactors Organic chemistry in microreactors Homogeneous reactions including photochemical and electrochemical reactions Heterogeneous reactions Biphasic reactions liquid liquid liquid gas Bioorganic reactions Industrial applications Thomas Wirth is Professor of Organic Chemistry at Cardiff University in Wales After a postdoctoral stay with Kaoru Fuji at Kyoto University as a JSPS fellow he started his independent research in the group of Bernd Giese in Basel Switzerland He was invited as a visiting professor to various places University of Toronto Canada 1999 Chuo University in Tokyo Japan 2000 Osaka University Japan 2004 He was awarded the Werner Prize from the New Swiss Chemical Society in 2000 He is the author of about 80 publications and has written or edited 4 books Microreaction Technology: Industrial Prospects W. Ehrfeld, 2012-12-06 Miniaturization has cost and time saving advantages for numerous applications in chemistry pharmacy medicine and biotechnology Additionally microreaction technology offers new solutions for the automobile industry and environmental technology e g fuel cells or mobile sensor

systems for on the spot analysis Therefore the 3rd International Conference on Microreaction Technology IMRET 3 is an important forum for creating awareness of the wide variety of the new trends in this up and coming discipline

Sustainable Flow Chemistry Luigi Vaccaro,2017-04-10 This ready reference not only presents the hot and emerging topic of modern flow chemistry it is also unique in illustrating the important connection to sustainable chemistry Focusing on more sustainable methods and applications the text extensively covers every important field from reaction time optimization to waste minimization and from safety improvements to microwave applications In addition green metrics are presented as a key aspect of the book helping readers to evaluate the efficiency of flow technologies and their impact on the overall efficiency of a chemical process An invaluable handbook for every chemist working in the laboratory whether in academia or industry

Chemical Engineering Miguel A. Galan,Eva Martin del Valle,2005-10-31 Unlike extensive major reference works or handbooks Chemical Engineering Trends and Developments provides readers with a ready reference to latest techniques in selected areas of chemical engineering where research is and will be focused in the future These areas are bioseparations particle science and design nanotechnology and reaction engineering The aim of the book is to provide academic and R D researchers with an overview of the main areas of technical development and how these techniques can be applied Each chapter focuses on a technique plus a selection of applications or examples of where the technique could be applied

Concepts In Syngas Manufacture Jens Rostrup-nielsen,Lars J Christiansen,2011-07-21 This book provides a general overview of syngas technologies as well as an in depth analysis of the steam reforming process Syngas is a mixture of hydrogen and carbon oxides which can be made from hydrocarbons coal and biomass It is an important intermediate in the chemical industry for manufacture of ammonia methanol and other petrochemicals as well as hydrogen for refineries and fuel cells Syngas is playing a growing role in the energy sector because it can be converted into a number of important energy carriers and fuels Syngas catalysis creates new options and flexibility in the complex energy network The steam reforming process is the main technology today for manufacture of syngas It is a complex intern mingling of catalysis and heat transfer with restrictions caused by secondary phenomena such as carbon formation Many of the principles are applicable for other gasification technologies of growing importance Concepts of Syngas Preparation aims to provide a comprehensive introduction to this complex field of growing importance and gives a detailed analysis of the catalyst and process problems This book also serves as an important link between science and industry by illustrating how the basic principles can be applied to solve design issues and operational problems a

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

Engineering Solutions for CO₂ Conversion Tomas Ramirez Reina, Jose A. Odriozola, Harvey Arellano-Garcia, 2021-02-25 A comprehensive guide that offers a review of the current technologies that tackle CO₂ emissions The race to reduce CO₂ emissions continues to be an urgent global challenge Engineering Solutions for CO₂ Conversion offers a thorough guide to the most current technologies designed to mitigate CO₂ emissions ranging from CO₂ capture to CO₂ utilization approaches With contributions from an international panel representing a wide range of expertise this book contains a multidisciplinary toolkit that covers the myriad aspects of CO₂ conversion strategies Comprehensive in scope it explores the chemical physical engineering and economical facets of CO₂ conversion Engineering Solutions for CO₂ Conversion explores a broad range of topics including linking CFD and process simulations membranes technologies for efficient CO₂ capture conversion biogas sweetening technologies plasma assisted conversion of CO₂ and much more This important resource Addresses a pressing concern of global environmental damage caused by the greenhouse gases emissions from fossil fuels Contains a review of the most current developments on the various aspects of CO₂ capture and utilization strategies Includes information on chemical physical engineering and economical facets of CO₂ capture and utilization Offers in depth insight into materials design processing characterization and computer modeling with respect to CO₂ capture and conversion Written for catalytic chemists electrochemists process engineers chemical engineers chemists in industry photochemists environmental chemists theoretical chemists environmental officers Engineering Solutions for CO₂ Conversion provides the most current and expert information on the many aspects and challenges of CO₂ conversion

Microstructured Devices for Chemical Processing Madhvanand N. Kashid, Albert Renken, Liubov Kiwi-Minsker, 2014-12-22 Faster cheaper and environmentally friendly these are the criteria for designing new reactions and this is the challenge faced by many chemical engineers today Based on courses taught by the authors this advanced textbook discusses opportunities for carrying out reactions on an industrial level in a technically controllable sustainable cost effective and safe manner Adopting a practical approach it describes how miniaturized devices mixers reactors heat exchangers and separators are used successfully for process intensification focusing on the engineering aspects of microstructured devices such as their design and main characteristics for homogeneous and multiphase reactions It addresses the conditions under which microstructured devices are beneficial how they should be designed and how such devices can be integrated in an existing chemical process Case studies show how the knowledge gained can be applied for particular processes The textbook is essential for master and doctoral students as well as for professional chemists and chemical engineers working in this area

Chemical Process Retrofitting and Revamping Gade Pandu Rangaiah, 2016-01-22 The proposed book will be divided into three parts The chapters in Part I provide an overview of certain aspect of process retrofitting The focus of Part II is on computational techniques for solving process

retrofit problems Finally Part III addresses retrofit applications from diverse process industries Some chapters in the book are contributed by practitioners whereas others are from academia Hence the book includes both new developments from research and also practical considerations Many chapters include examples with realistic data All these feature make the book useful to industrial engineers researchers and students

Microreactors in Organic Chemistry and Catalysis

Thomas Wirth,2013-02-22 For the second edition of Microreactors in Organic Chemistry and Catalysis all chapters have been revised and updated to reflect the latest developments in this rapidly developing field This new edition has 60% more content and it remains a comprehensive publication covering most aspects of the topic The use of microreactors in homogeneous heterogeneous as well as biphasic reactions is covered in the main part of the book together with catalytic bioorganic and automation approaches The initial chapters also provide a solid physical chemistry background on fluidics in microdevices Finally a chapter on industrial applications and developments covers recent progress in process chemistry An excellent reference for beginners and experts alike

Basics of Flow Microreactor Synthesis

Jun-ichi Yoshida,2015-05-08 This book provides in a concise form the principles and applications of flow microreactors in organic and polymer synthesis Recently it became possible to conduct chemical reactions in a flow reactor in laboratory synthesis The flow microreactor enables reactions that cannot be done in batch opening a new possibility of chemical synthesis Extremely fast mass and heat transfer and high resolution residence time control are responsible for the remarkable features of that process The book is not an exhaustive compilation of all known examples of flow microreactor synthesis Rather it is a sampling of sufficient variety to illustrate the concept the scope and the current state of flow microreactor synthesis Researchers both in academia and in industry will be interested in this book because the topics encompassed by the book are vigorously studied in many university and company laboratories today

29th European Symposium on Computer Aided Chemical Engineering

Anton A. Kiss,Edwin Zondervan,Richard Lakerveld,Leyla Özkan,2019-06-28 The 29th European Symposium on Computer Aided Process Engineering contains the papers presented at the 29th European Symposium of Computer Aided Process Engineering ESCAPE event held in Eindhoven The Netherlands from June 16 19 2019 It is a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries Presents findings and discussions from the 29th European Symposium of Computer Aided Process Engineering ESCAPE event

Microreactor Technology And Process Intensification Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Microreactor Technology And Process Intensification**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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