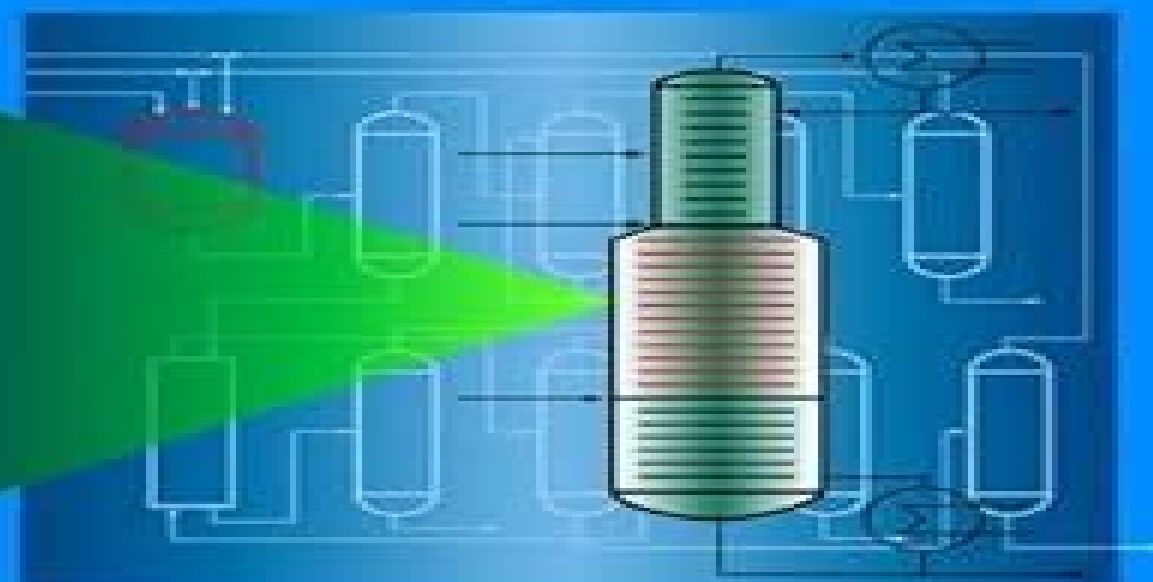


Reactive Distillation

Status and Future Directions

Edited by
Kai Sundmacher and Achim Kienle



Reactive Distillation Status And Future Directions

Jianjun Gao



Reactive Distillation Status And Future Directions:

Reactive Distillation Kai Sundmacher, Achim Kienle, 2006-08-21 In a reactive distillation column both the chemical conversion and the distillative separation of the product mixture are carried out simultaneously Through this integrative strategy chemical equilibrium limitations can be overcome higher selectivities can be achieved and heat of reaction can be directly used for distillation Increased process efficiency and reduction of investments and operational costs are the direct results of this approach Highly renowned international experts from both industry and academia review the state of the art and the future directions in application design analysis and control of Reactive Distillation processes Part I surveys various industrial applications and covers both established large scale processes as well as new chemical reaction schemes with high future potential Part II provides the vital details for analysis of reactive phase equilibria and discusses the importance of chemical reaction kinetics while Part III focuses on identifying feasible column configurations and designing their internal structure Analysis and control of the complex dynamic and steady state behavior of reactive distillation processes are described in Part IV Reactive Distillation a very promising alternative to conventional reaction distillation flow schemes

Reactive Distillation Achim Kienle, Kai Sundmacher, 2006 In a reactive distillation column both the chemical conversion and the distillative separation of the product mixture are carried out simultaneously Through this integrative strategy chemical equilibrium limitations can be overcome higher selectivities can be achieved and heat of reaction can be directly used for distillation Increased process efficiency and reduction of investments and operational costs are the direct results of this approach Highly renowned international experts from both industry and academia review the state of the art and the future directions in application design analysis and control of Reactive Distillation processes Part I surveys various industrial applications and covers both established large scale processes as well as new chemical reaction schemes with high future potential Part II provides the vital details for analysis of reactive phase equilibria and discusses the importance of chemical reaction kinetics while Part III focuses on identifying feasible column configurations and designing their internal structure Analysis and control of the complex dynamic and steady state behavior of reactive distillation processes are described in Part IV Reactive Distillation a very promising alternative to conventional reaction distillation flow schemes **Reactive**

Distillation Design and Control William L. Luyben, Cheng-Ching Yu, 2009-03-30 After an overview of the fundamentals limitations and scope of reactive distillation this book uses rigorous models for steady state design and dynamic analysis of different types of reactive distillation columns and quantitatively compares the economics of reactive distillation columns with conventional multi unit processes It goes beyond traditional steady state design that primarily considers the capital investment and energy costs when analyzing the control structure and the dynamic robustness of disturbances and discusses how to maximize the economic and environmental benefits of reactive distillation technology **Distillation** Vilmar Steffen, 2019-12-04 The purpose of this book is to offer readers important topics on the modeling simulation and optimization

of distillation processes The book is divided into four main sections the first section is introduction to the topic the second presents work related to distillation process modeling the third deals with the modeling of phase equilibrium one of the most important steps of distillation process modeling and the the fourth looks at the reactive distillation process a process that has been applied successfully to a number of applications and has been revealed as a promising strategy for a number of recent challenges

Reactive Separation for Process Intensification and Sustainability Carlos Ariel Cardona Alzate, Mariana Ortiz Sanchez, Pisarenko Yury Andrianovich, 2019-12-23 This book describes analyses and discusses the main principles phenomena and design strategies of reactive separation processes with an emphasis on the intensification as a basis of the sustainability Different reactive separation processes are explained in detail to show the phenomena and with the purpose of understanding when their use allows advantages based on the output results Case examples are analysed and the perspective of these processes in the future is discussed The overall sustainability of reactive separation processes in the industry is also explained separately

Designing Reative Distillation Processes with Improved Efficiency Cristhian Paúl

Almeida-Rivera, 2005 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 Intensification of Biobased Processes Andrzej Górak, Andrzej

Stankiewicz, 2018-06-18 In recent years bioprocessing has increased in popularity and importance however bioprocessing still poses various important techno economic and environmental challenges such as product yields excessive energy

consumption for separations in highly watery systems batch operation or the downstream processing bottlenecks in the production of biopharmaceutical products Many of those challenges can be addressed by application of different process

intensification technologies discussed in the present book The first book dedicated entirely to this area Intensification of Biobased Processes provides a comprehensive overview of modern process intensification technologies used in bioprocessing The book focusses on four different categories of biobased products bio fuels and platform chemicals cosmeceuticals food products and polymers and advanced materials It will cover various intensification aspects of the processes concerned including bio reactor intensification intensification of separation recovery and formulation operations and process integration This is an invaluable source of information for researchers and industrialists working in chemical engineering biotechnology and process engineering

Process Synthesis and Process Intensification Ben-Guang Rong, 2017-09-25 Process synthesis and process intensification are becoming state of the art scientific fields that provide the methods and tools to improve process technologies in terms of high energy efficiency low capital investment low emissions improved safety and less hazardous byproducts to achieve sustainable products and processes The book covers manufacturing processes from both fossil and biomass based feedstocks for graduate students

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

Membranes for Membrane Reactors Angelo Basile, Fausto Gallucci, 2010-12-20 A membrane reactor is a device for simultaneously performing a reaction and a membrane based separation in the same physical device Therefore the membrane not only plays the role of a separator but also takes place in the reaction itself This text covers in detail the preparation and characterisation of all types of membranes used in membranes reactors Each membrane synthesis process used by membranologists is explained by well known scientists in their specific research field The book opens with an exhaustive review and introduction to membrane reactors introducing the recent advances in this field The following chapters concern the preparation of both organic and inorganic and in both cases a deep analysis of all the techniques used to prepare membrane are presented and discussed A brief historical introduction for each technique is also included followed by a complete description of the technique as well as the main results presented in the international specialized literature In order to give to the reader a summary look to the overall work a conclusive chapter is included for collecting all the information presented in the previous chapters Key features Fills a gap in the market for a scientific book describing the preparation and characterization of all the kind of membranes used in membrane reactors Discusses an important topic there is increasing emphasis on membranes in general due to their use as energy efficient separation tools and the green chemistry opportunities they offer Includes a review about membrane reactors several chapters concerning the preparation organic inorganic dense porous and composite membranes and a conclusion with a comparison among the different membrane preparation techniques

Introduction to Green

Chemistry John Andraos, Albert S. Matlack, 2022-03-10 Interest in green chemistry and clean processes has grown so much in recent years that topics such as fluorous biphasic catalysis metal organic frameworks and process intensification which were barely mentioned in the First Edition have become major areas of research In addition government funding has ramped up the development of fuel cells and biofuels This reflects the evolving focus from pollution remediation to pollution prevention Copiously illustrated with more than 800 figures the Third Edition provides an update from the frontiers of the field It features supplementary exercises at the end of each chapter relevant to the chemical examples introduced in each chapter Particular attention is paid to a new concluding chapter on the use of green metrics as an objective tool to demonstrate proof of synthesis plan efficiency and to identify where further improvements can be made through fully worked examples relevant to the chemical industry NEW AND EXPANDED RESEARCH TOPICS Metal organic frameworks Metrics Solid acids for alkylation of isobutene by butanes Carbon molecular sieves Mixed micro and mesoporous solids Organocatalysis Process intensification and gas phase enzymatic reactions Hydrogen storage for fuel cells Reactive distillation Catalysts in action on an atomic scale UPDATED AND EXPANDED CURRENT EVENTS TOPICS Industry resistance to inherently safer chemistry Nuclear power Removal of mercury from vaccines Removal of mercury and lead from primary explosives Biofuels Uses for surplus glycerol New hard materials to reduce wear Electronic waste Smart growth The book covers traditional green chemistry topics including catalysis benign solvents and alternative feedstocks It also discusses relevant but less frequently covered topics with chapters such as Chemistry of Long Wear and Population and the Environment This coverage highlights the importance of chemistry to everyday life and demonstrates the benefits the expanded exploitation of green chemistry can have for society

Microbiology for Cleaner Production and Environmental Sustainability Naga Raju Maddela, Lizziane Kretli Winkelstroter Eller, Ram Prasad, 2023-08-15 Growth of populations increasing urbanization and rising standards of living due to technological innovations demand not only the meticulous use of shrinking resources but also sustainable ways of producing materials for human welfare Cleaner production involves preventive and protective initiatives which are intended to minimize waste and emissions and maximize product output These novel microbiological techniques are a practical option for achieving environmental sustainability Microbiology for Cleaner Production and Environmental Sustainability serves as a valuable source of information about microbiological advancements for a sustainability in diversified areas such as energy resources food industries agricultural production and environmental remediation of pollution Features Covers key issues on the role of microbiology in the low cost production of bioenergy Provides comprehensive information on microorganisms for maximizing productivity in agriculture Examines green pharmaceutical production Provides the latest research on microbiological advancements in the restoration of contaminated sites

The Refinery of the Future James G. Speight, 2020-07-25 The Refinery of the Future Second Edition delivers useful knowledge that will help the engineer understand the processes involved feedstocks composition and

future technologies Covering the basic chemistry commercial processes already in use and future innovation this reference gives engineers and managers the tools needed to understand refining products feedstocks and the processes critical to convert feedstocks to desired outcomes New information concerning tight shale formations and heavy oil process options is included for today s operations Rounding out with future uses in shale bioliquids and refinery configurations this book gives engineers and refinery managers the knowledge to update and upgrade their refinery assets Links basic petrochemical and refinery knowledge into application for today s oil and gas refining industry Gives insights into the development and applications of refining process technology along with the types of feedstock and their properties Updated with a focus on crude oils recovered from tight shale and sandstone formations along with increased emphasis on heavy oil and tar sand bitumen

Separation and Purification Technologies in Biorefineries Shri Ramaswamy,Hua-Jiang Huang,Bandaru V. Ramarao,2013-02-04 Separation and purification processes play a critical role in biorefineries and their optimal selection design and operation to maximise product yields and improve overall process efficiency Separations and purifications are necessary for upstream processes as well as in maximising and improving product recovery in downstream processes These processes account for a significant fraction of the total capital and operating costs and also are highly energy intensive Consequently a better understanding of separation and purification processes current and possible alternative and novel advanced methods is essential for achieving the overall techno economic feasibility and commercial success of sustainable biorefineries This book presents a comprehensive overview focused specifically on the present state future challenges and opportunities for separation and purification methods and technologies in biorefineries Topics covered include Equilibrium Separations Distillation liquid liquid extraction and supercritical fluid extraction Affinity Based Separations Adsorption ion exchange and simulated moving bed technologies Membrane Based Separations Microfiltration ultrafiltration and diafiltration nanofiltration membrane pervaporation and membrane distillation Solid liquid Separations Conventional filtration and solid liquid extraction Hybrid Integrated Reaction Separation Systems Membrane bioreactors extractive fermentation reactive distillation and reactive absorption For each of these processes the fundamental principles and design aspects are presented followed by a detailed discussion and specific examples of applications in biorefineries Each chapter also considers the market needs industrial challenges future opportunities and economic importance of the separation and purification methods The book concludes with a series of detailed case studies including cellulosic bioethanol production extraction of algae oil from microalgae and production of biopolymers

Separation and Purification Technologies in Biorefineries is an essential resource for scientists and engineers as well as researchers and academics working in the broader conventional and emerging bio based products industry including biomaterials biochemicals biofuels and bioenergy

Polytope Projects Octavian Iordache,2013-10-15 How do you know what works and what doesn t This book contains case studies highlighting the power of polytope projects for complex problem solving Any sort of combinational problem

characterized by a large variety of possibly complex constructions and deconstructions based on simple building blocks can be studied in a similar way Although the m

Introduction to Green Chemistry Albert Matlack, 2010-04-05 The book covers traditional green chemistry topics including catalysis benign solvents and alternative feedstocks It also discusses relevant but less frequently covered topics with chapters such as Chemistry of Longer Wear and Population and the Environment This coverage highlights the importance of chemistry to everyday life and demonstrates the benefits the expanded exploitation of green chemistry can have for society Copiously illustrated with over 800 figures this second edition provides an update from the frontiers of the field

Catalytic Reactors Basudeb Saha, 2015-12-18 Catalytic Reactors presents several key aspects of reactor design in Chemical and Process Engineering Starting with the fundamental science across a broad interdisciplinary field this graduate level textbook offers a concise overview on reactor and process design for students scientists and practitioners new to the field This book aims to collate into a comprehensive and well informed work of leading researchers from north America western Europe and south east Asia The editor and international experts discuss state of the art applications of multifunctional reactors biocatalytic membrane reactors micro flow reactors industrial catalytic reactors micro trickle bed reactors and multiphase catalytic reactors The use of catalytic reactor technology is essential for the economic viability of the chemical manufacturing industry The importance of Chemical and Process Engineering and efficient design of reactors are another focus of the book Especially the combination of advantages from both catalysis and chemical reaction technology for optimization and intensification as essential factors in the future development of reactors and processes are discussed Furthermore options that can drastically influence reaction processes e g choice of catalysts alternative reaction pathways mass and heat transfer effects flow regimes and inherent design of catalytic reactors are reviewed in detail Focuses on the state of the art applications of catalytic reactors and optimization in the design and operation of industrial catalytic reactors Insights into transfer of knowledge from laboratory science to industry For students and researchers in Chemical and Mechanical Engineering Chemistry Industrial Catalysis and practising Engineers

Challenges and Paradigms in Applied Robust Control Andrzej Bartoszewicz, 2011-11-16 The main objective of this book is to present important challenges and paradigms in the field of applied robust control design and implementation Book contains a broad range of well worked out recent application studies which include but are not limited to H infinity sliding mode robust PID and fault tolerant based control systems The contributions enrich the current state of the art and encourage new applications of robust control techniques in various engineering and non engineering systems

Promising Techniques for Wastewater Treatment and Water Quality Assessment Iqbal Ahmed, J. Kevin Summers, 2021-12-01 This book reviews the primary aspects of wastewater treatment processing techniques and designs as well as water quality assessment Chapters address microwave digestive techniques of wastewater treatment advanced ozone oxidative and photo processes and reactive distillation for various applications The book is a useful resource for choosing applicable processing techniques

and design parameters

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