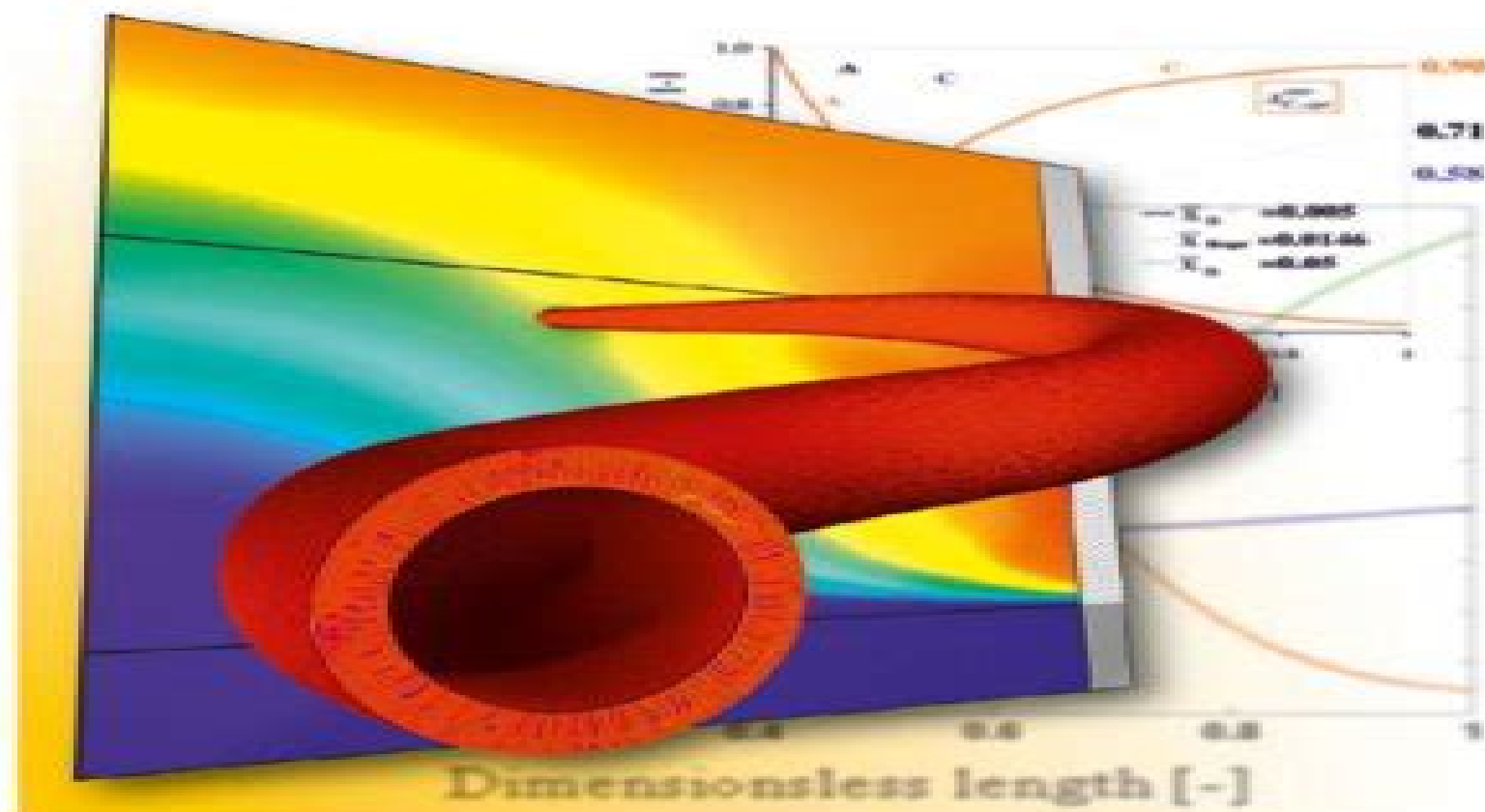


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Membrane Reactors

Distributing Reactants
to Improve Selectivity and Yield



Membrane Reactors Distributing Reactants To Improve Selectivity And Yield

**E. N. Pistikopoulos, Michael C.
Georgiadis, Antonis C. Kokossis**



Membrane Reactors Distributing Reactants To Improve Selectivity And Yield:

Membrane Reactors Andreas Seidel-Morgenstern, 2010-03-09 This authoritative work represents a broad treatment of the field including the basic principles of membrane reactors a comparative study of these and conventional fixed bed reactors or multi tube reactors modeling industrial applications and emerging applications all based on case studies and model reactions with a stringent mathematical framework The significant progress made over the last few years in this inherently hot multidisciplinary field is summarized in a competent manner such that the novice can grasp the elementary concepts while professionals can familiarize themselves with the latest developments in the area For the industrial practitioner this practical book covers all important current and potential future applications **Chemische**

Verfahrenstechnik Klaus Hertwig, Lothar Martens, Christof Hamel, 2018-03-19 Ebenso praxisorientiertes wie theoretisch fundiertes Lehrbuch zur Modellierung Gestaltung und Betrieb chemischer Reaktoren Die Prozesse werden systematisch und mit mathematischen Modell dargestellt Dank zahlreicher Anwendungsbeispiele lernt der Leser selbstständig technische Aufgabenstellungen wie die Auslegung und Optimierung neuer Reaktoren zu lösen Die dritte Auflage enthält neue Reaktorkonzepte **Fluidverfahrenstechnik** Ralf Goedecke, 2011 Diese umfassendste Darstellung des Themas in

deutscher Sprache wurde von namhaften Experten aus Hochschule und Industrie geschrieben Grundlagen und Praxis der Fluidverfahrenstechnik werden allgemeinverständlich und mit vielen Praxisbeispielen erklärt Die Studienausgabe enthält den kompletten Inhalt der Erstausgabe über 1200 Seiten mit Expertenwissen die keine Fragen offen lassen Mit seiner breit gefächerten Thematik ist das Buch ein zuverlässiger Begleiter für Planungs- und Betriebsingenieure wie für Neueinsteiger und Hochschulabgänger die Grundlagenwissen in die Praxis umsetzen wollen zeichnet sich neben der Methodik vor allem auch durch den Praxisbezug und das beschriebene Erfahrungswissen aus Es kann als Wissensvermittler Ratgeber und auch als Nachschlagewerk empfohlen werden Filtrieren und Separieren **Handbook of Membrane Reactors** Angelo

Basile, 2013-02-08 Membrane reactors are increasingly replacing conventional separation process and conversion technologies across a wide range of applications Exploiting advanced membrane materials they offer enhanced efficiency are very adaptable and have great economic potential There has therefore been increasing interest in membrane reactors from both the scientific and industrial communities stimulating research and development The two volumes of the Handbook of membrane reactors draw on this research to provide an authoritative review of this important field Volume 1 explores fundamental materials science design and optimisation beginning with a review of polymeric dense metallic and composite membranes for membrane reactors in part one Polymeric and nanocomposite membranes for membrane reactors inorganic membrane reactors for hydrogen production palladium based composite membranes and alternatives to palladium based membranes for hydrogen separation in membrane reactors are all discussed Part two goes on to investigate zeolite ceramic and carbon membranes and catalysts for membrane reactors in more depth Finally part three explores membrane reactor

modelling simulation and optimisation including the use of mathematical modelling computational fluid dynamics artificial neural networks and non equilibrium thermodynamics to analyse varied aspects of membrane reactor design and production enhancement With its distinguished editor and international team of expert contributors the two volumes of the Handbook of membrane reactors provide an authoritative guide for membrane reactor researchers and materials scientists chemical and biochemical manufacturers industrial separations and process engineers and academics in this field Considers polymeric dense metallic and composite membranes for membrane reactors Discusses ceramic and carbon for membrane reactors in detail Reactor modelling simulation and optimisation is also discussed

Process Intensification Technologies for Biodiesel Production Anton Alexandru Kiss, 2014-03-15 This book is among the first to address the novel process intensification technologies for biodiesel production in particular the integrated reactive separations It provides a comprehensive overview illustrated with many industrially relevant examples of novel reactive separation processes used in the production of biodiesel e g fatty acid alkyl esters reactive distillation reactive absorption reactive extraction membrane reactors and centrifugal contact separators Readers will also learn about the working principles design and control of integrated processes while also getting a relevant and modern overview of the process intensification opportunities for biodiesel synthesis Biodiesel is a biodegradable and renewable fuel that currently enjoys much attention In spite of the recent advances the existing biodiesel processes still suffer from problems associated with the use of homogeneous catalysts e g salt waste streams and the key limitations imposed by the chemical reaction equilibrium thus leading to severe economic and environmental penalties The integration of reaction and separation into one operating unit overcomes equilibrium limitations and provides key benefits such as low capital investment and operating costs Many of these processes can be further enhanced by heat integration and powered by heterogeneous catalysts to eliminate all conventional catalyst related operations using the raw materials efficiently and the reaction volume while offering high conversion and selectivity and significant energy savings The targeted audience of this book includes both academia students and researchers and industry project leaders technology managers researchers biodiesel producers and equipment suppliers

Lactose Hydrolysis in Dairy Products Priyanka Singh Rao, Heena Sharma, Sumit Arora, Laxmana Naik N., 2025-03-24 Lactose is the major disaccharide present in milk Metabolism of lactose requires lactase which is present in the brush border of epithelial cells of the small intestine Deficiency of this enzyme leads to malabsorption of lactose and fermentation of lactose occurs in gut which results in various gastrointestinal disorders Around 70% of the world population suffers from lactose intolerance Such individuals face difficulty in consumption of milk and milk products This has led to a great demand in market for the milk products which are either low in lactose or lactose free Major advances have been made in the production of lactose free dairy products through lactose hydrolysis processing methods Most of the books available on lactose hydrolysis in dairy products were published from 1970 1990 Awareness on lactose intolerance has increased in past one decade and

development of new strategies to address this issue are progressing at rapid rate There is a great need for consolidated information representing all aspects of lactose hydrolyzed dairy products Lactose Hydrolysis in Dairy Products addresses the significance and application of lactose hydrolyzed products from production to consumption It mainly emphasizes the basic principles that are essential to understand the concept of lactose intolerance and the various processes utilized for production of lactose free dairy foods Methods such as enzymatic hydrolysis membrane processing and fermentation are covered in full Further coverage includes alternative approaches to combat lactose intolerance conversion of lactose to other bioactive derivatives and their health effects and the regulatory aspects and the main challenges and potential solutions for the production of lactose hydrolyzed products

Basic Equations of Mass Transport Through a Membrane Layer Endre Nagy, 2018-11-05 Basic Equations of Mass Transport Through a Membrane Layer Second Edition has been fully updated to deliver the latest research in the field This volume covers the essentials of compound separation product removal concentration and production in the chemical biochemical pharmaceutical and food industries It outlines the various membrane processes and their applications offering a detailed mathematical description of mass transport and defining basic mass transport and concentration distribution expressions Additionally this book discusses the process parameters and application of the expressions developed for a variety of industrial applications Comprehensive explanations of convective diffusive mass transport are provided both with and without polarization layers that help predict and process performance and facilitate improvements to operation conditions and efficiency Basic Equations of Mass Transport Through a Membrane Layer is an ideal resource for engineers and technologists in the chemical biochemical and pharmaceutical industries as well as researchers professors and students in these areas at both an undergraduate and graduate level Cites and analyzes mass transport equations developed for different membrane processes Examines the effect of biochemical chemical reactions in the presence of convective and diffusive flows in plane and cylindrical spaces Defines the mass transfer rate for first and zero order reactions and analytical approaches are given for other order reactions in closed mathematical forms Analyzes the simultaneous convective and diffusive transports with same or different directions

Introduction to Membrane Science and Technology Heinrich Strathmann, 2011-10-17 Written by a dedicated lecturer and leading membrane scientist who has worked both in academia and industry this advanced textbook provides an impressive overview of all aspects of membranes and their applications Together with numerous industrial case studies practical examples and questions the book provides an excellent and comprehensive introduction to the topic Advanced students as well as process and chemical engineers working in industry will profit from this resource A significant feature of the book is the treatment of more recently developed membranes and their applications in energy conversion biomedical components controlled release devices and environmental engineering with an indication of the present and future commercial impact The solutions to the questions in the book can be found under <http://www.wiley-vch.de/publish/en/books> ISBN 3 537 32451 8 From the Contents Introduction Fundamentals

Membrane Preparation and Characterization Principles of Membrane Separation Processes Membrane Modules and Concentration Polarization Membrane Process Design and Operation **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 **Biochemical Engineering** Shigeo Katoh, Fumitake Yoshida, 2009-12-18 Written by renowned professors drawing on their experience gained in the world s most innovative biotechnology market Japan this advanced textbook provides an excellent and comprehensive introduction to the latest developments in the field It provides an array of questions answers and features numerous applied examples extending to industrial applications with chapters on medical devices and downstream operations in bioprocesses Useful for students studying the fundamentals of biochemical engineering as well as for chemical engineers already working in this vital and expanding field **Preparative Chromatography** H. Schmidt-Traub, Michael Schulte, Andreas Seidel-Morgenstern, 2012-09-27 Completely revised and substantially extended to reflect the developments in this fast changing field It retains the interdisciplinary approach that elegantly combines the chemistry and engineering involved to describe the conception and improvement of chromatographic processes It also covers recent advances in preparative chromatographic processes for the separation of smaller molecules using standard laboratory equipment as well as the detailed conception of industrial chemical plants The increase in biopharmaceutical substances is reflected by new and revised chapters on different modifications of continuous chromatography as well as ion exchange chromatography and other separation principles widely used in biochromatography Following an introductory section on the history of chromatography the current state of research and the design of

chromatographic processes the book goes on to define the general terminology There then follow sections on stationary phases selection of chromatographic systems and process concepts A completely new chapter deals with engineering and operation of chromatographic equipment Final chapters on modeling and determination of model parameters as well as model based design optimization and control of preparative chromatographic processes allow for optimal selection of chromatographic processes Essential for chemists and chemical engineers in the chemical pharmaceutical and food industries

Inorganic Membrane Reactors Xiaoyao Tan, Kang Li, 2015-03-02 Membrane reactors combine membrane functions such as separation reactant distribution and catalyst support with chemical reactions in a single unit The benefits of this approach include enhanced conversion increased yield and selectivity as well as a more compact and cost effective design of reactor system Hence membrane reactors are an effective route toward chemical process intensification This book covers all types of porous membrane reactors including ceramic silica carbon zeolite and dense metallic reactors such as Pd or Pd alloy oxygen ion conducting and proton conducting ceramics For each type of membrane reactor the membrane transport principles membrane fabrication configuration and operation of membrane reactors and their current and potential applications are described comprehensively A summary of the critical issues and hurdles for each membrane reaction process is also provided with the aim of encouraging successful commercial applications The audience for Inorganic

Membrane Reactors includes advanced students industrial and academic researchers and engineers with an interest in membrane reactors

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 membrane 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 **Zeolites in Catalysis** Jiří Čejka, Russell E. Morris, 2017-06-07 Accessible references for researchers and industrialists in this exciting field covering both developments and applications of catalysis **Handbook of Membrane Separations** Anil K. Pabby, Syed S.H. Rizvi, Ana Maria Sastre Requena, 2008-07-07 The Handbook of Membrane Separations Chemical Pharmaceutical and Biotechnological Applications provides detailed information on membrane separation technologies as they have evolved over the past decades To provide a basic understanding of membrane technology this book documents the developments dealing with these technologies It explores chemical pharmaceutical food processing and biotechnological applications of membrane processes ranging from selective separation to solvent and material recovery This text also presents in depth knowledge of membrane separation mechanisms transport models membrane permeability computations membrane types and modules as well as membrane reactors *Inorganic Membranes for Separation and Reaction* H.P. Hsieh, 1996-06-07 With the recent advent of commercial ceramic membranes inorganic membranes are receiving much attention as unique separators and reactors due to their excellent thermal and chemical stabilities This volume provides an extensive and integrated survey of the science and technology of inorganic membranes Various methods for making dense metal and solid electrolyte membranes and porous inorganic membranes with tortuous and nearly straight pores are provided These inorganic membranes ranging from ceramics to metals to inorganic polymers can be characterized by many techniques indicative of their separation performance under idealized as well as application conditions In addition to many commercial liquid phase applications inorganic membranes have been used industrially for gas diffusion and particle filtration and demonstrated for the important high temperature gas separation and membrane reactor applications Approximately half of the book is devoted to the subject of inorganic membrane reactors Useful data in many tables and figures and extensive literature and patent information are given throughout the book for further study The book is a valuable reference for researchers as well as process engineers who are involved in membrane and separation technology Chemical engineers chemists and material scientists should also find the text a comprehensible introduction to the subject **21st European Symposium on Computer Aided Process Engineering** E. N. Pistikopoulos, Michael C. Georgiadis, Antonis C. Kokossis, 2011-07-21 The European Symposium on Computer Aided Process Engineering ESCAPE series presents the latest innovations and achievements of leading professionals from the industrial and academic communities The ESCAPE series serves as a forum for engineers scientists researchers managers and students to present and discuss progress being made in the area of computer aided process engineering CAPE European industries large and small are bringing innovations into our lives whether in the form of new technologies to address environmental problems new products to make our homes more comfortable and energy efficient or new therapies to improve the health and well being of European citizens Moreover the European Industry needs to undertake research and technological initiatives in response to humanity s Grand Challenges described in the declaration of Lund namely Global Warming Tightening Supplies

of Energy Water and Food Ageing Societies Public Health Pandemics and Security Thus the Technical Theme of ESCAPE 21 will be Process Systems Approaches for Addressing Grand Challenges in Energy Environment Health Bioprocessing Nanotechnologies

Current Trends and Future Developments on (Bio)-Membranes Angelo Basile, Kamran Ghasemzadeh, 2024-09-10 Current Trends and Future Developments on Bio Membranes Recent Achievements in Chemical Processes in Membrane Reactors introduces and analyzes chemical processes done in membrane reactors The book highlights their performance and provides an overview of recent achievements in structural development of membrane reactor systems during chemical processes Starting from chemical processes aspects and fundamentals of membrane reactor systems via modeling and experimental and design concepts to practitioners perspective and good application examples the book sheds light and gives a broad but very detailed description through the point of view typical of an industrial engineer This book is a key reference for R D managers in industry interested in the development of chemical processes by membrane reactor technologies as well as academic researchers and postgraduate students working in the wider area of the strategic chemical separation and purification processes Focuses on the best strategies for carrying out membrane reactor processes Analyzes critical aspects of conversion selectivity and yield in membrane reactor systems Includes all developments of transport phenomena chemical kinetics in various chemical processes in membrane reactor systems Provides a practitioners perspective on the fundamentals and applications modeling and experimental and design concepts of membrane reactor systems

Jahrbuch Berlin-Brandenburgische Akademie der Wissenschaften, 2010

Sustainable Process Engineering Gyorgy Szekely, 2024-07-01 Sustainable process engineering is a methodology to design new and redesign existing processes that follow the principles of green chemistry and green engineering and ultimately contribute to a sustainable development The newest achievements of chemical engineering opened new opportunities to design more efficient safe compact and environmentally benign chemical processes The book provides a guide to sustainable process design applicable in various industrial fields Discusses the topic from a wide angle chemistry materials processes and equipment Includes state of the art research achievements that are yet to be industrially implemented Transfers knowledge between chemists and chemical engineers QR codes direct the readers to animations short videos magazines and blogs on specific topics Worked examples deepen the understanding of the sustainable assessment of chemical manufacturing processes

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