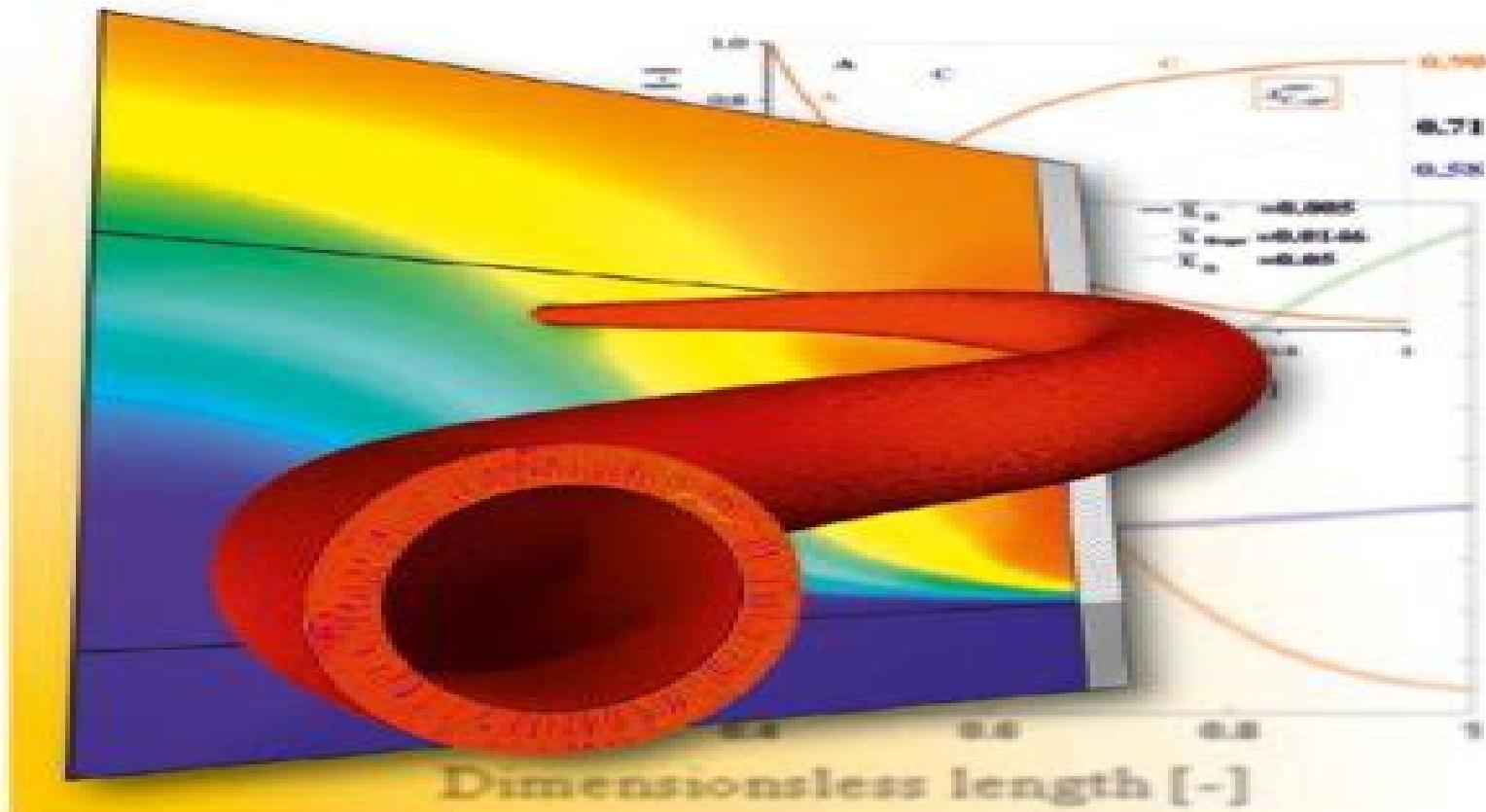


# Membrane Reactors

Distributing Reactants  
to Improve Selectivity and Yield



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**Andreas Seidel-Morgenstern**

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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 [Handbook of](#)

*Membrane Separations* Anil Kumar 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 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 Comprehensive Membrane Science and Engineering Enrico Drioli,Lidietta Giorno,2010-07-09 Comprehensive Membrane Science and Engineering Four Volume Set covers all aspects of membrane science and technology from basic phenomena to the most advanced applications and future perspectives Modern membrane engineering is critical to the development of process intensification strategies and to the stimulation of industrial growth The work presents researchers and industrial managers with an indispensable tool toward achieving these aims Covers membrane science theory and economics as well as applications ranging from chemical purification and natural gas enrichment to potable water Includes contributions and case studies from internationally recognized experts and from up and coming researchers working in this multi billion dollar field Takes a unique multidisciplinary approach that stimulates research in hybrid technologies for current and future life saving applications artificial organs drug delivery Ceramic Membranes for Separation and Reaction Kang Li,2007-04-30 Ceramic Membranes for Reaction and Separation is the first single authored guide to the developing area of ceramic membranes Starting by documenting established procedures of ceramic membrane preparation and characterization this title then focuses on gas

separation The final chapter covers ceramic membrane reactors as distributors and separators and general engineering considerations Chapters include key examples to illustrate membrane synthesis characterisation and applications in industry Theoretical principles advantages and disadvantages of using ceramic membranes under the various conditions are discussed where applicable ***Zeolites in Catalysis*** Jiří Čejka, Russell E Morris, Petr Nachtigall, 2017-06-01 Covering the breadth of zeolite chemistry and catalysis this book provides the reader with a complete introduction to field covering synthesis structure characterisation and applications Beginning with the history of natural and synthetic zeolites the reader will learn how zeolite structures are formed synthetic routes and experimental and theoretical structure determination techniques Their industrial applications are covered in depth from their use in the petrochemical industry through to fine chemicals and more specialised clinical applications Novel zeolite materials are covered including hierarchical zeolites and two dimensional zeolites showcasing modern developments in the field This book is ideal for newcomers who need to get up to speed with zeolite chemistry and also experienced researchers who will find this a modern up to date guide ***Handbook of Membrane Separations*** Anil K. Pabby, Syed S.H. Rizvi, Ana-Maria Sastre, 2015-04-09

The ***Handbook of Membrane Separations*** Chemical Pharmaceutical Food and Biotechnological Applications Second Edition provides detailed information on membrane separation technologies from an international team of experts The handbook fills an important gap in the current literature by providing a comprehensive discussion of membrane application ***Catalytic Membranes and Membrane Reactors*** José G. Sanchez Marcano, Theodore Thomas Tsotsis, 2002 This work encompasses a broad treatment of the field including the basic principles of membrane reactors a comparative study of these and other classical reactors modelling industrial applications emerging applications etc ***Encyclopedia of Materials Science and Engineering***, 1990

***ASEAN Journal on Science & Technology for Development***, 2004 ***Membranes: Volume 752*** Materials Research Society. Meeting, 2003-04-11 The objective of this 2003 volume from the Materials Research Society is twofold to provide an overview of advances in membrane science and technology and to enhance communication among membrane researchers from a variety of disciplines including chemistry biology biotechnology chemical engineering and materials science Membranes can be used for inert or reactive separations in a variety of fields including gas purification water treatment energy storage and conversion bio technology and biomedicine The book brings together scientists involved in the entire spectrum of modern approaches to membrane science and technology to address synthesis characterization and transport properties and their use in established and emerging applications Topics include membrane synthesis and preparation surface modification and additives hybrid and composite membranes membrane characterization transport phenomena in membranes charged membranes and ion transfer gas permeation and separation pervaporation and vapor permeation dense membranes for hydrogen separation applications in biotechnology and biomedicine and membrane R D for industrial and emerging applications ***Handbook on the Physics and Chemistry of Rare Earths*** Karl A. Gschneidner (Jr.), LeRoy

Eyring,1978 **New Membrane Materials and Processes for Separation** Kamalesh K. Sirkar,Douglas R. Lloyd,1988  
**Membrane Technology** Suzana Pereira Nunes,2001-07-09 Membrane Technology a clean and energy saving alternative to traditional conventional processes Developed from a useful laboratory technique to a commercial separation technology today it has widespread and rapidly expanding use in the chemical industry It has established applications in areas such as hydrogen separation and recovery of organic vapors from process gas streams and selective transport of organic solvents and it is opening new perspectives for catalytic conversion in membrane reactors Membrane technology provides a unique solution for industrial waste treatment and for controlled production of valuable chemicals This book outlines several established applications of membranes in the chemical industry reviews the available membranes and membrane processes for the field and discusses the huge potential of this technology in chemical processes Each chapter has been written by an international leading expert with extensive industrial experience in the field Process and Chemical Engineering ,2002

The Encyclopedia of Advanced Materials David Bloor,1994 AICHE Symposium Series American Institute of Chemical Engineers,1989 **Jahrbuch** Berlin-Brandenburgische Akademie der Wissenschaften,2010

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